



February 17, 2023

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
Jalmat Yates Sand Unit 170
Incident Number NAPP2233946698
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Jalmat Yates Sand Unit 170 (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impairment to soil resulting from a release of crude oil and produced water. 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 NAPP2233946698.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 14, Township 22 South, Range 33 East, in Lea County, New Mexico (32.39512° , -103.33486°) and is associated with oil and gas exploration and production operations on private property.

On November 20, 2022, a flowline ruptured and resulted in the release of approximately 1.92 barrels (bbls) of crude oil and 7.7 bbls of produced water into the surrounding pasture. Released fluids were not recovered. The release occurred off pad and was attributed to internal corrosion of the flowline. The affected area was immediately secured and saturated soil was removed. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 30, 2022. The release was assigned Incident Number NAPP2233946698.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of State Engineer (NMOSE) well CP-00753, located approximately 1,178 feet northeast of the Site. The groundwater well has a reported depth to

groundwater of 185 feet bgs and a total depth of 215 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 2,008 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). 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 pasture areas that will be reclaimed following remediation, per 19.15.29.13.D (1) NMAC.

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On December 15, 2022, Ensolum personnel were at the Site to conduct assessment activities including verifying the initial clean up of saturated soil had been completed by Maverick operations, and evaluate Site work. Approximately 100 cubic yards of saturated soil were removed prior to Ensolum personnel visiting the Site. The release extent was mapped using a handheld Global Positioning System (GPS) unit and is depicted on Figure 2.

Between January 6 and February 7, 2023, Ensolum personnel were on Site to oversee and direct excavation activities based on field screening activities. Excavation activities were performed via backhoe to a depth of approximately 2.5 feet bgs. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Photographic documentation of excavation activities is included in Appendix B.

Following removal of waste-containing soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. Excavation composite soil samples (FS01 through FS34) and excavation sidewall samples (SW01 through SW06) were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

Laboratory analytical results for confirmation samples FS06, FS14, and SW06 indicated TPH and/or chloride concentrations exceeded the reclamation requirement. Additional excavation in the vicinity of these confirmation samples appeared warranted to address residual waste-containing soil. Additional soil was removed in the vicinity of those confirmation sample areas not meeting the reclamation requirement and subsequent samples FS06A, FS14A, and SW07 were collected. The excavation soil samples were collected, handled, and analyzed as described above. The final excavation extent and excavation soil sample locations are depicted on Figure 3.

The excavation measured approximately 6,800 square feet in areal extent. A total of approximately 320 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 in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the final excavation floor samples FS01 through FS05, FS06A, FS07 through FS13, FS14A, and FS15 through FS34 and sidewall soil samples SW01 through SW05, and SW07 indicated benzene, all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 2022 release of crude oil and produced water. Laboratory analytical results for the final excavation soil samples indicated all concentrations were compliant with the Site Closure Criteria and reclamation requirements. Additionally, the release was laterally delineated to the most stringent Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Maverick will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of waste-containing soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2233946698. The Final C-141 is included in Appendix D.

Jalmat Yates Sand Unit 170
Maverick Permian, LLC



If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink that appears to read "Joe Gable".

Joe Gable, PG
Project Manager

A handwritten signature in black ink that appears to read "Daniel R. Moir".

Daniel, R. Moir, PG
Senior Managing Geologist

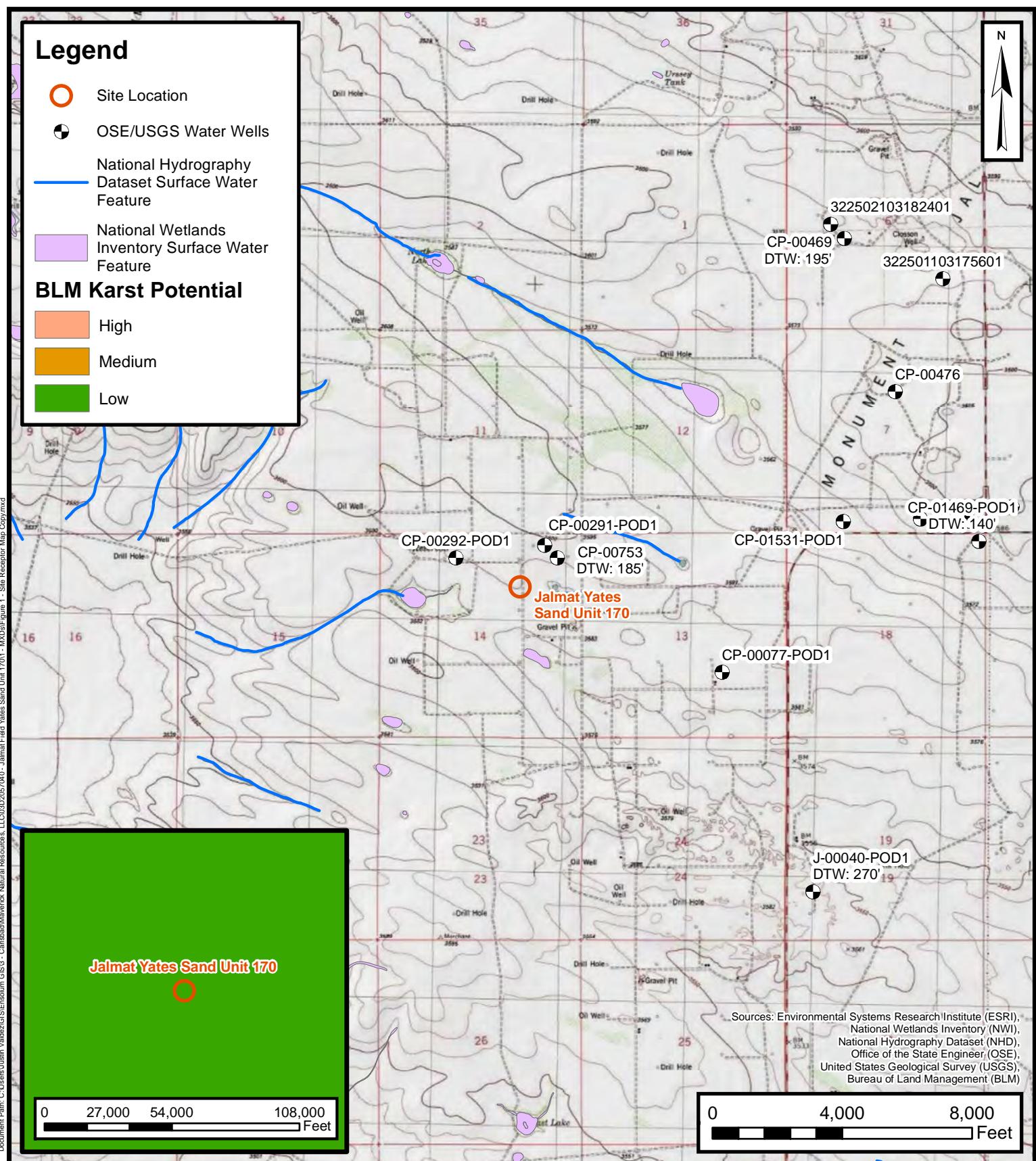
cc: Bryce Wagoner, Maverick Natural Resources
Bradley Blevins, Landowner

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Release Extent Map
- Figure 3 Excavation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix D Final C-141
- Appendix E NMOCD Notifications



FIGURES



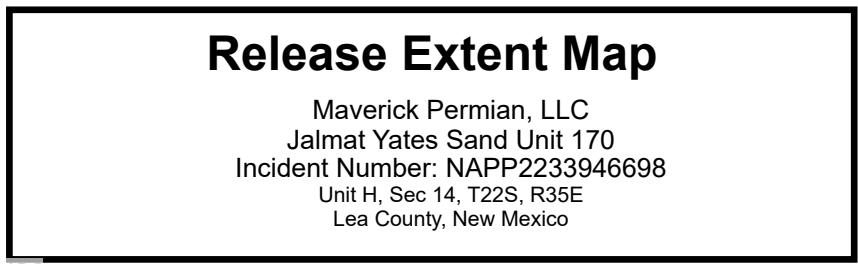
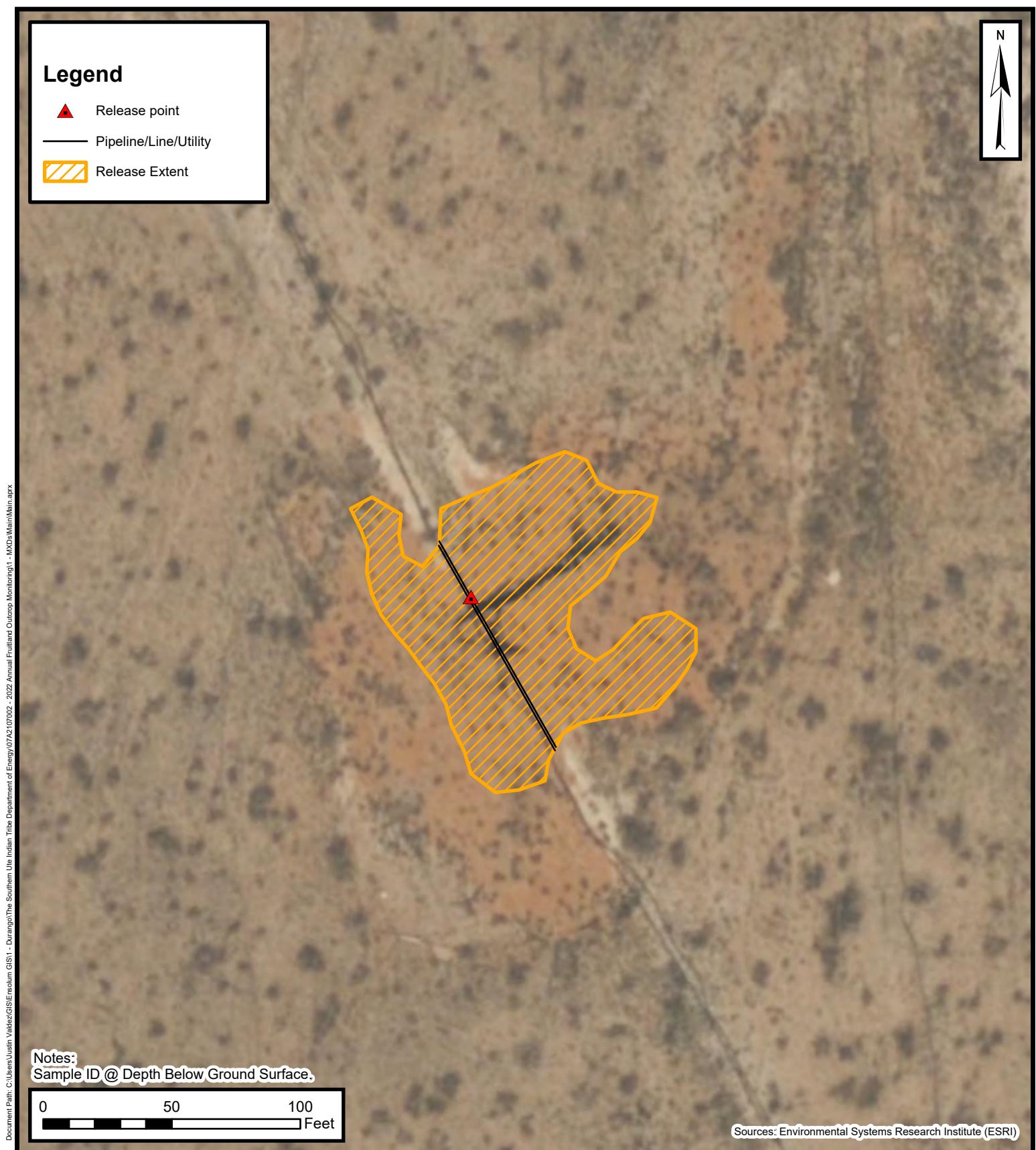
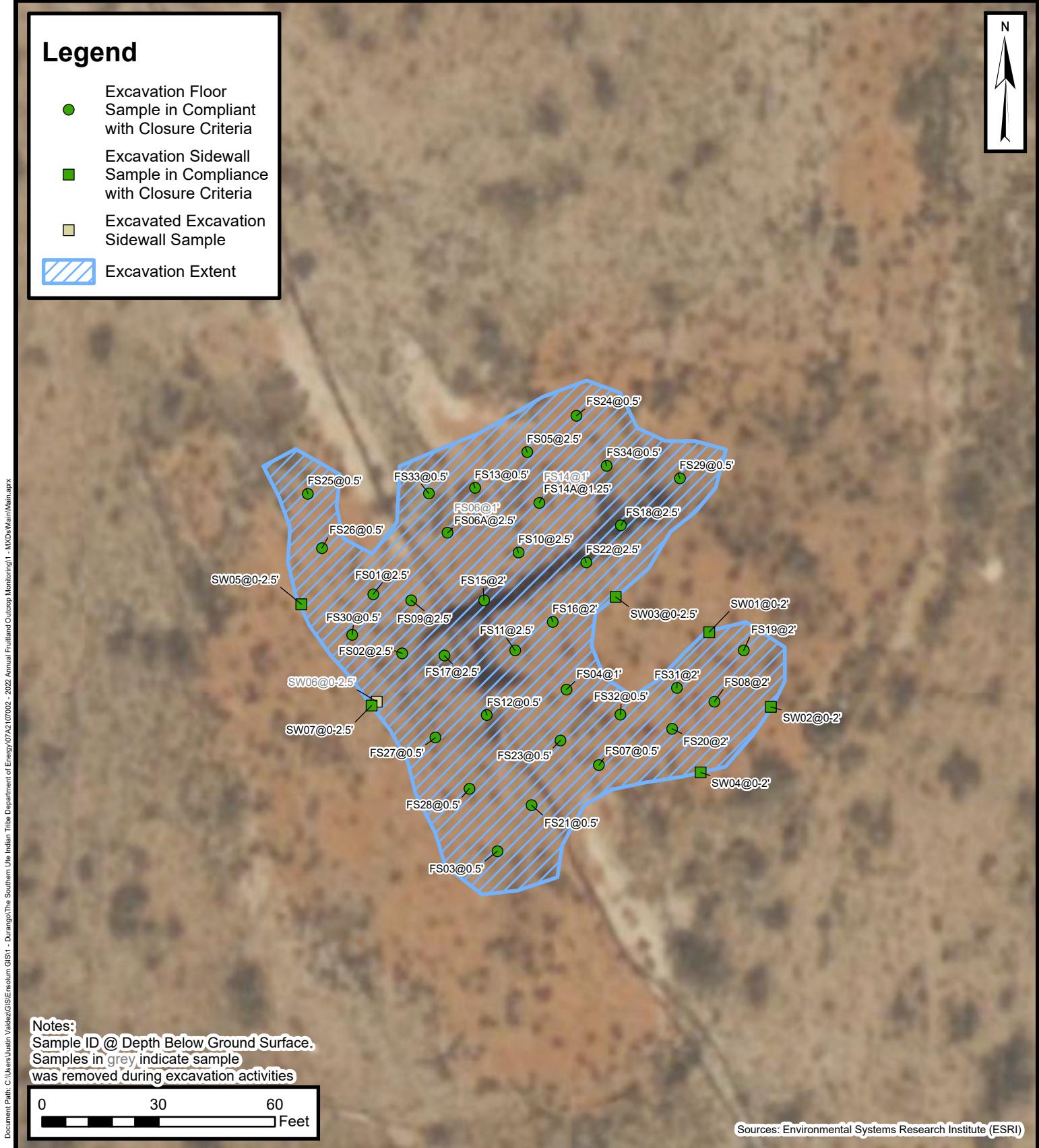


FIGURE
2



Excavation Soil Sample Locations

Maverick Permian, LLC
Jalmat Yates Sand Unit 170
Incident Number: NAPP2233946698
Unit H, Sec 14, T22S, R35E
Lea County, New Mexico

FIGURE
3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Jalmat Yates Sand Unit 170
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 |
| Excavation Floor Samples | | | | | | | | | | |
| FS01 | 01/18/2023 | 2.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 366* |
| FS02 | 01/18/2023 | 2.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | 49.9 | <49.9 | <49.9 | 379* |
| FS03 | 12/15/2022 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 11.8* |
| FS04 | 01/06/2023 | 1 | <0.00199 | 0.00579 | <50.0 | 81.7 | <50.0 | 81.7 | 81.7 | 543* |
| FS05 | 01/18/2023 | 2.5 | <0.00202 | <0.00404 | <50.0 | <49.9 | <49.9 | <49.9 | <49.9 | 373* |
| FS06 | 01/06/2023 | 4 | <0.00201 | <0.00402 | <50.0 | 543 | 83.5 | 543 | 627 | 1,460* |
| FS06A | 01/18/2023 | 2.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 132* |
| FS07 | 12/15/2022 | 0.5 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 5.17* |
| FS08 | 12/15/2022 | 2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 50.2* |
| FS09 | 01/18/2023 | 2.5 | <0.00202 | <0.00403 | <49.9 | 54.8 | <49.9 | 54.8 | 54.8 | 156* |
| FS10 | 01/18/2023 | 2.5 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 439* |
| FS11 | 01/18/2023 | 2.5 | <0.00202 | <0.00403 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 57.1* |
| FS12 | 01/18/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 14.1* |
| FS13 | 01/18/2023 | 0.5 | <0.00198 | <0.00397 | <50.0 | 68.7 | 23.8 | 92.5 | 92.5 | 127* |
| FS14 | 01/06/2023 | 4 | <0.00199 | <0.00398 | <49.8 | 953 | 125 | 953 | 1,080 | 428* |
| FS14A | 02/07/2023 | 1.25 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 84.1* |
| FS15 | 01/06/2023 | 2 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 286* |
| FS16 | 01/06/2023 | 2 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 459* |
| FS17 | 01/18/2023 | 2.5 | <0.00200 | <0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 345* |
| FS18 | 01/18/2023 | 2.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 393* |
| FS19 | 01/18/2023 | 2 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 7.31* |
| FS20 | 01/18/2023 | 2 | <0.00200 | <0.00401 | <49.9 | 76.3 | <49.9 | 76.3 | 76.3 | 41.2* |
| FS21 | 01/18/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9* |
| FS22 | 01/18/2023 | 2.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 474* |
| FS23 | 01/18/2023 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 12.3* |
| FS24 | 01/18/2023 | 0.5 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <4.96* |
| FS25 | 01/18/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <4.98* |

| Received by OCD: 01/18/2023 3:30:08 PM | | | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | Page 11 of 243 |
|--|------------|---------|----------|----------|-------|-------|-------|-------|-------|----------------|
| FS27 | 01/18/2023 | 0.5 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 13.2* |
| FS28 | 01/18/2023 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 99.6* |
| FS29 | 01/18/2023 | 0.5 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <5.05* |
| FS30 | 01/18/2023 | 0.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <5.00* |
| FS31 | 01/18/2023 | 2 | <0.00198 | <0.00397 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 71.7* |
| FS32 | 01/18/2023 | 0.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 5.05* |
| FS33 | 01/18/2023 | 0.5 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <4.97* |
| FS34 | 01/18/2023 | 0.5 | <0.00198 | <0.00397 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <4.99* |
| Excavation Sidewall Samples | | | | | | | | | | |
| SW01 | 01/19/2023 | 0 - 2 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 87.8* |
| SW02 | 01/19/2023 | 0 - 2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 36.3* |
| SW03 | 01/19/2023 | 0 - 2.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 363* |
| SW04 | 01/19/2023 | 0 - 2 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 41.5* |
| SW05 | 01/19/2023 | 0 - 2.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 69.7* |
| SW06 | 01/19/2023 | 0 - 2.5 | <0.00201 | <0.00402 | 224 | <50.0 | <50.0 | <50.0 | 224 | 109* |
| SW07 | 02/07/2023 | 0 - 2.5 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 79.8* |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

* indicates sample was collected in area to be reclaimed after remediation complete; reclamation standard for TPH in the top 4 feet is 600 mg/kg

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) | | | | (NAD83 UTM in meters) | | | |
|----------|------------|------------------------------------|-----|----|-----|-----------------------|-----|--------|----------|
| | | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
| | CP 00753 | | 2 | 2 | 14 | 22S | 35E | 656891 | 3585687* |

| | | | | | |
|--------------------------|---------------|-----------------------------|---------------|-------------------------|----------|
| Driller License: | 208 | Driller Company: | VAN NOY, W.L. | | |
| Driller Name: | VAN NOY, W.L. | | | | |
| Drill Start Date: | 07/11/1990 | Drill Finish Date: | 07/18/1990 | Plug Date: | |
| Log File Date: | 07/23/1990 | PCW Rev Date: | | Source: | Shallow |
| Pump Type: | | Pipe Discharge Size: | | Estimated Yield: | 23 GPM |
| Casing Size: | 5.00 | Depth Well: | 215 feet | Depth Water: | 185 feet |

| | | | |
|---------------------------------------|------------|---------------|-------------------------------|
| Water Bearing Stratifications: | Top | Bottom | Description |
| | 195 | 210 | Sandstone/Gravel/Conglomerate |
| <hr/> | | | |
| Casing Perforations: | Top | Bottom | |
| | 201 | 211 | |

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/30/23 1:18 PM

POINT OF DIVERSION SUMMARY

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Merchant Livestock Company Owner's Well No. _____
 Street or Post Office Address Box 1115
 City and State Eunice, NM 88231

Well was drilled under Permit No. CP-753 and is located in the:

- a. 1/4 1/4 NE NE 1/4 of Section 14 Township 22S Range 35 N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in Lea County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor W. L. VanNoy License No. WD_208

Address P.O. Box 7, Oil Center, NM 88266

Drilling Began 7-11-90 Completed 7-18-90 Type tools Cable Size of hole 10 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 215 ft.

Completed well is XXX shallow artesian. Depth to water upon completion of well 185 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

| Depth in Feet From | To | Thickness in Feet | Description of Water-Bearing Formation | Estimated Yield (gallons per minute) | |
|-----------------------|----|----------------------|--|---|-----|
| | | | | 195 | 210 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Section 3. RECORD OF CASING

| Diameter (inches) | Pounds per foot | Threads per in. | Depth in Feet | | Length (feet) | Type of Shoe | Perforations | |
|----------------------|--------------------|--------------------|---------------|------------|------------------|--------------|--------------|------------|
| | | | Top | Bottom | | | From | To |
| <u>5"</u> | <u>PVC</u> | | <u>0</u> | <u>215</u> | | | <u>201</u> | <u>211</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Section 4. RECORD OF MUDDING AND CEMENTING

| Depth in Feet From | To | Hole Diameter | Sacks of Mud | Cubic Feet of Cement | Method of Placement | |
|-----------------------|----|------------------|-----------------|-------------------------|---------------------|--------|
| | | | | | Top | Bottom |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative _____

| No. | Depth in Feet | | Cubic Feet of Cement |
|-----|---------------|--------|-------------------------|
| | Top | Bottom | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

FOR USE OF STATE ENGINEER ONLY

Date Received July 23, 1990

Quad _____ FWL _____ FSL _____

File No. CP-753 Use STOCK Location No. 22.35.14.22131

Section 6. LOG OF HOLE

Section 7. REMARKS AND ADDITIONAL INFORMATION

50 JUL 23 AM 8 31
STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W.W. Van Hoy
Driller

Driller

INSTRUCTIONS: This form should be completed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired, or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



APPENDIX B

Photographic Log



Photographic Log
Maverick Permian, LLC
Jalmat Yates Sand Unit 170
Lea County, New Mexico



Photograph: 1
Description: Initial soil stain
View: Northwest

Date: 11/30/2022

Photograph: 2
Description: Excavation activities
View: South

Date: 1/10/2023



Photograph: 3
Description: Excavation activities
View: Southeast

Date: 1/20/2023

Photograph: 4
Description: Excavation activities
View: Northwest

Date: 1/20/2023



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/3/2023 11:19:15 AM Revision 1

JOB DESCRIPTION

Jalmat Yates Sand Unit #170
SDG NUMBER Lea County NM

JOB NUMBER

890-3809-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



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

Generated
2/3/2023 11:19:15 AM
Revision 1

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Laboratory Job ID: 890-3809-1
SDG: Lea County NM

Table of Contents

| | |
|------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 7 |
| QC Sample Results | 8 |
| QC Association Summary | 13 |
| Lab Chronicle | 15 |
| Certification Summary | 16 |
| Method Summary | 17 |
| Sample Summary | 18 |
| Chain of Custody | 19 |
| Receipt Checklists | 20 |

Definitions/Glossary

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

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: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
SDG: Lea County NM

Job ID: 890-3809-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3809-1

REVISION

The report being provided is a revision of the original report sent on 1/17/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re run.

Report revision history

Receipt

The sample was received on 1/10/2023 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS16 (890-3809-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-43804 and analytical batch 880-43781 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43804/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43792 and analytical batch 880-43924 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45098 and analytical batch 880-45287 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: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Client Sample ID: FS16

Date Collected: 01/06/23 13:45

Date Received: 01/10/23 09:05

Sample Depth: 2

Lab Sample ID: 890-3809-1

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|----------|-------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| Surrogate | | | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | | 01/13/23 13:36 | 01/16/23 21:05 | | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | 01/13/23 13:36 | 01/16/23 21:05 | | 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 | | | 01/17/23 14:44 | 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 | | | 01/13/23 12:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|-------|----------------|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | | 01/12/23 11:42 | 01/12/23 22:16 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | | 01/12/23 11:42 | 01/12/23 22:16 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | | 01/12/23 11:42 | 01/12/23 22:16 |
| Surrogate | | | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 101 | | 70 - 130 | | 01/12/23 11:42 | 01/12/23 22:16 | | 1 |
| <i>o</i> -Terphenyl | 116 | | 70 - 130 | | 01/12/23 11:42 | 01/12/23 22:16 | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 459 | | 4.98 | mg/Kg | | | 02/03/23 09:02 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|----------------------|-------------------------|---|---------------------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-3808-A-1-D MS | Matrix Spike | 111 | 102 |
| 890-3808-A-1-E MSD | Matrix Spike Duplicate | 112 | 103 |
| 890-3809-1 | FS16 | 114 | 104 |
| LCS 880-43748/1-A | Lab Control Sample | 111 | 100 |
| LCSD 880-43748/2-A | Lab Control Sample Dup | 112 | 105 |
| MB 880-43748/5-A | Method Blank | 112 | 100 |
| MB 880-43960/8 | Method Blank | 110 | 99 |

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|----------------------|-------------------------|---|---------------------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-3804-A-1-F MS | Matrix Spike | 96 | 100 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | 98 | 102 |
| 890-3809-1 | FS16 | 101 | 116 |
| LCS 880-43804/2-A | Lab Control Sample | 106 | 107 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | 122 | 121 |
| MB 880-43804/1-A | Method Blank | 144 S1+ | 154 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-43748/5-A****Matrix: Solid****Analysis Batch: 43960**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 |

Client Sample ID: Method Blank**Prep Type: Total/NA****Prep Batch: 43748**

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | 01/13/23 13:36 | 01/16/23 19:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 01/13/23 13:36 | 01/16/23 19:34 | 1 |

Lab Sample ID: LCS 880-43748/1-A**Matrix: Solid****Analysis Batch: 43960**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits | %Rec |
|---------------------|-------|--------|-----------|-------|-----|------|----------|------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.1121 | | mg/Kg | 112 | 112 | 70 - 130 | |
| Toluene | 0.100 | 0.1077 | | mg/Kg | 108 | 108 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1052 | | mg/Kg | 105 | 105 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2165 | | mg/Kg | 108 | 108 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1024 | | mg/Kg | 102 | 102 | 70 - 130 | |

| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | 01/13/23 13:36 | 01/16/23 19:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 01/13/23 13:36 | 01/16/23 19:34 | 1 |

Lab Sample ID: LCSD 880-43748/2-A**Matrix: Solid****Analysis Batch: 43960**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|-------|--------|-----------|-------|-----|------|----------|-----|-------|
| | Added | Result | Qualifier | | | | | | |
| Benzene | 0.100 | 0.1159 | | mg/Kg | 116 | 116 | 70 - 130 | 3 | 35 |
| Toluene | 0.100 | 0.1086 | | mg/Kg | 109 | 109 | 70 - 130 | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1066 | | mg/Kg | 107 | 107 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2192 | | mg/Kg | 110 | 110 | 70 - 130 | 1 | 35 |
| o-Xylene | 0.100 | 0.1045 | | mg/Kg | 105 | 105 | 70 - 130 | 2 | 35 |

| Surrogate | LCSD | LCSD | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | 01/13/23 13:36 | 01/16/23 19:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | 01/13/23 13:36 | 01/16/23 19:34 | 1 |

Lab Sample ID: 890-3808-A-1-D MS**Matrix: Solid****Analysis Batch: 43960**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits |
|---------|----------|-----------|-------|---------|-----------|-------|----|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00200 | U | 0.101 | 0.09870 | | mg/Kg | 98 | 70 - 130 | |
| Toluene | <0.00200 | U | 0.101 | 0.09623 | | mg/Kg | 95 | 70 - 130 | |

Client Sample ID: Matrix Spike**Prep Type: Total/NA****Prep Batch: 43748**

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-3808-A-1-D MS****Matrix: Solid****Analysis Batch: 43960**

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43748

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|--------|
| Ethylbenzene | <0.00200 | U | 0.101 | 0.09472 | | mg/Kg | 94 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00401 | U | 0.202 | 0.1946 | | mg/Kg | 96 | 70 - 130 | |
| o-Xylene | <0.00200 | U | 0.101 | 0.09494 | | mg/Kg | 94 | 70 - 130 | |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: 890-3808-A-1-E MSD**Matrix: Solid****Analysis Batch: 43960**

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43748

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|-----|----------|-----|
| Benzene | <0.00200 | U | 0.0996 | 0.1006 | | mg/Kg | 101 | 70 - 130 | 2 |
| Toluene | <0.00200 | U | 0.0996 | 0.09733 | | mg/Kg | 98 | 70 - 130 | 1 |
| Ethylbenzene | <0.00200 | U | 0.0996 | 0.09546 | | mg/Kg | 96 | 70 - 130 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.199 | 0.1956 | | mg/Kg | 98 | 70 - 130 | 1 |
| o-Xylene | <0.00200 | U | 0.0996 | 0.09472 | | mg/Kg | 95 | 70 - 130 | 0 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

Lab Sample ID: MB 880-43960/8**Matrix: Solid****Analysis Batch: 43960**

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

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 01/16/23 12:24 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/16/23 12:24 | | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|-----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | 01/16/23 12:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | 01/16/23 12:24 | 1 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-43804/1-A****Matrix: Solid****Analysis Batch: 43781**

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43804

| 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 | 01/12/23 11:42 | 01/12/23 19:44 | | 1 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-43804/1-A****Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-------------------------|-------------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| o-Terphenyl | 154 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

Lab Sample ID: LCS 880-43804/2-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|--------------------------|--------------------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 949.4 | | mg/Kg | | 95 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 934.9 | | mg/Kg | | 93 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | |
| 1-Chlorooctane | 106 | | 70 - 130 | | | | | |
| o-Terphenyl | 107 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-43804/3-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------------------|---------------------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 914.9 | | mg/Kg | | 91 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 1075 | | mg/Kg | | 108 | 70 - 130 | 14 | 20 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 122 | | 70 - 130 | | | | | | | |
| o-Terphenyl | 121 | | 70 - 130 | | | | | | | |

Lab Sample ID: 890-3804-A-1-F MS**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------------------|-------------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 998 | 891.6 | | mg/Kg | | 88 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 983.2 | | mg/Kg | | 99 | 70 - 130 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 96 | | 70 - 130 | | | | | | |
| o-Terphenyl | 100 | | 70 - 130 | | | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-3804-A-1-G MSD****Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|--------|-----|----------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 997 | 1139 | F2 | mg/Kg | 113 | 70 - 130 | 24 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1082 | | mg/Kg | 109 | 70 - 130 | 10 | 20 |
| Surrogate | %Recovery | Qualifer | | MSD | MSD | Limits | | | | |
| 1-Chlorooctane | 98 | | | 70 - 130 | | | | | | |
| o-Terphenyl | 102 | | | 70 - 130 | | | | | | |

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-43792/1-A****Matrix: Solid****Analysis Batch: 43924****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 | | | 01/13/23 23:50 | 1 |

Lab Sample ID: LCS 880-43792/2-A**Matrix: Solid****Analysis Batch: 43924****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|-----|----------|--------|
| Chloride | 250 | 255.0 | | mg/Kg | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-43792/3-A**Matrix: Solid****Analysis Batch: 43924****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|-----|----------|--------|-----|-----------|
| Chloride | 250 | 251.6 | | mg/Kg | 101 | 90 - 110 | | 1 | 20 |

Lab Sample ID: 890-3804-A-1-C MS**Matrix: Solid****Analysis Batch: 43924****Client Sample ID: Matrix Spike****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|-----|----------|--------|
| Chloride | 53.1 | F1 | 252 | 347.0 | F1 | mg/Kg | 117 | 90 - 110 | |

Lab Sample ID: 890-3804-A-1-D MSD**Matrix: Solid****Analysis Batch: 43924****Client Sample ID: Matrix Spike Duplicate****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|-----|----------|-----|-----------|
| Chloride | 53.1 | F1 | 252 | 344.0 | F1 | mg/Kg | 116 | 90 - 110 | 1 | 20 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: MB 880-45098/1-A****Matrix: Solid****Analysis Batch: 45287**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 02/03/23 05:57 | 1 |

Lab Sample ID: LCS 880-45098/2-A**Matrix: Solid****Analysis Batch: 45287**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | RPD |
|----------|----------------|---------------|------------------|-------|-----|----------|-----|
| Chloride | 250 | 269.4 | | mg/Kg | 108 | 90 - 110 | |

Lab Sample ID: LCSD 880-45098/3-A**Matrix: Solid****Analysis Batch: 45287**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD |
|----------|----------------|----------------|-------------------|-------|-----|----------|-----|
| Chloride | 250 | 270.0 | | mg/Kg | 108 | 90 - 110 | 0 |

Lab Sample ID: 890-3970-A-5-C MS**Matrix: Solid****Analysis Batch: 45287**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | RPD |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|-----|----------|-----|
| Chloride | 102 | F1 | 250 | 382.4 | F1 | mg/Kg | 112 | 90 - 110 | |

Lab Sample ID: 890-3970-A-5-D MSD**Matrix: Solid****Analysis Batch: 45287**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|-----|----------|-----|
| Chloride | 102 | F1 | 250 | 382.4 | F1 | mg/Kg | 112 | 90 - 110 | 0 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

GC VOA**Prep Batch: 43748**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3809-1 | FS16 | Total/NA | Solid | 5035 | |
| MB 880-43748/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-43748/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-43748/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3808-A-1-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3808-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 43960

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3809-1 | FS16 | Total/NA | Solid | 8021B | 43748 |
| MB 880-43748/5-A | Method Blank | Total/NA | Solid | 8021B | 43748 |
| MB 880-43960/8 | Method Blank | Total/NA | Solid | 8021B | |
| LCS 880-43748/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 43748 |
| LCSD 880-43748/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 43748 |
| 890-3808-A-1-D MS | Matrix Spike | Total/NA | Solid | 8021B | 43748 |
| 890-3808-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 43748 |

Analysis Batch: 44181

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3809-1 | FS16 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 43781**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3809-1 | FS16 | Total/NA | Solid | 8015B NM | 43804 |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015B NM | 43804 |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 43804 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 43804 |

Prep Batch: 43804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3809-1 | FS16 | Total/NA | Solid | 8015NM Prep | |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 43882

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3809-1 | FS16 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 43792**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| MB 880-43792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

HPLC/IC (Continued)**Leach Batch: 43792 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3804-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3804-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 43924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-43792/1-A | Method Blank | Soluble | Solid | 300.0 | 43792 |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 43792 |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 43792 |
| 890-3804-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 43792 |
| 890-3804-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 43792 |

Leach Batch: 45098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3809-1 | FS16 | Soluble | Solid | DI Leach | |
| MB 880-45098/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-45098/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-45098/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3970-A-5-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3970-A-5-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 45287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3809-1 | FS16 | Soluble | Solid | 300.0 | 45098 |
| MB 880-45098/1-A | Method Blank | Soluble | Solid | 300.0 | 45098 |
| LCS 880-45098/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 45098 |
| LCSD 880-45098/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 45098 |
| 890-3970-A-5-C MS | Matrix Spike | Soluble | Solid | 300.0 | 45098 |
| 890-3970-A-5-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 45098 |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
 SDG: Lea County NM

Client Sample ID: FS16**Date Collected: 01/06/23 13:45****Date Received: 01/10/23 09:05****Lab Sample ID: 890-3809-1****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 | | | 5.01 g | 5 mL | 43748 | 01/13/23 13:36 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43960 | 01/16/23 21:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 44181 | 01/17/23 14:44 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43882 | 01/13/23 12:42 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 43804 | 01/12/23 11:42 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43781 | 01/12/23 22:16 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 45098 | 01/30/23 16:20 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45287 | 02/03/23 09:02 | 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: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
SDG: Lea County NM

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3809-1

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3809-1 | FS16 | Solid | 01/06/23 13:45 | 01/10/23 09:05 | 2 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

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



Environment Testing
Kenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 506-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No.: _____

www.xenco.com

Page 1 of 1

Chain of Custody

Received by: Hadlie Green

Date/Time: 1-10-23 09:55

2/3/2023 (Rev. 1)

1

2

3

4

5

6

7

8

9

10

11

12

13

14

| | | | | | |
|------------------|-------------------------------|--|-------------------------|--|--|
| Project Manager: | Hadlie Green | | Bill to: (if different) | Kalee Jennings | |
| Company Name: | Ensolum, LLC | | Company Name: | Ensolum, LLC | |
| Address: | 601 N Marienfeld St Suite 400 | | Address: | | |
| City, State ZIP: | Midland, TX 79701 | | City, State ZIP: | Midland, TX 79701 | |
| Phone: | 432-557-8895 | | Email: | klemminns@ensolum.com; hggreen@ensolum.com | |

| | | | | | |
|---|---|---|---|----------|---|
| ANALYSIS REQUEST | | | | | |
| Project Name: | Jalmar Yates Sand Unit 170 | Turn Around | | | |
| Project Number: | 03D2057047 | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | | |
| Project Location: | Lea County, NM | Due Date: | | | |
| Sampler's Name: | Dmitry Nikanorov | | TAT starts the day received by the lab, if received by 4:30pm | | |
| PO #: | | | | | |
| SAMPLE RECEIPT | | | | | |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temp Blank: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet/Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Cooler/Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Thermometer ID: | JW-N2057 | | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor: | -0.3 | | |
| Total Containers: | | | Temperature Reading: | 21.8 | |
| Corrected Temperature: 21.4 | | | | | |
| Parameters | | | | | |
| CHLORIDES (EPA: 300.0) | | | | | |
| TPH (8015) | | | | | |
| BTEX (8021) | | | | | |
| Preservative Codes | | | | | |
| None: NO DI Water: H ₂ O | | | | | |
| Cool: Cool MeOH: Me | | | | | |
| HCl: HC H ₂ SO ₄ : H ₂ NaOH: Na | | | | | |
| H ₃ PO ₄ : HP NaHSO ₄ : NABIS | | | | | |
| Na ₂ SO ₃ : NASO ₃ Zn Acetate+NaOH: Zn | | | | | |
| NaOH+Ascorbic Acid: SAPC | | | | | |



890-3809 Chain of Custody

Sample Comments

Incident Number

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--|-------|-------|-------|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|----|----|----|----|---|---|----|
| Total 200.7 / 6010 | 200.8 / 6020: | 8RCRA | 13PPM | Texas | 11 Al | So | As | Ba | Be | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Mo | Ni | K | Se | Ag | SiO ₂ | Na | Sr | Tl | Sn | U | V | Zn |
| Circle Method(s) and Metal(s) to be analyzed | | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| <u>J. M. Green</u> | <u>C. Lee</u> | <u>1-10-23 09:55</u> | | | |
| 1 | | | | | |
| 3 | | | | | |
| 5 | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3809-1
SDG Number: Lea County NM**Login Number: 3809****List Source: Eurofins Carlsbad****List Number: 1****Creator: Clifton, Cloe**

| Question | Answer | Comment | |
|--|--------|-------------------------------------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-3809-1
SDG Number: Lea County NM**Login Number:** 3809**List Source:** Eurofins Midland
List Creation: 01/11/23 11:43 AM**List Number:** 2**Creator:** Teel, Brianna

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 6 |
| Sample custody seals, if present, are intact. | True | | 7 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 8 |
| Samples were received on ice. | True | | 9 |
| Cooler Temperature is acceptable. | True | | 10 |
| Cooler Temperature is recorded. | True | | 11 |
| COC is present. | True | | 12 |
| COC is filled out in ink and legible. | True | | 13 |
| COC is filled out with all pertinent information. | True | | 14 |
| Is the Field Sampler's name present on COC? | True | | |
| There are no discrepancies between the containers received and the COC. | True | | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | |
| Sample containers have legible labels. | True | | |
| Containers are not broken or leaking. | True | | |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | True | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | | |



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/16/2023 6:20:13 PM

JOB DESCRIPTION

Jalmat Yates Sand Unit #170
SDG NUMBER Lea County NM

JOB NUMBER

890-3810-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
1/16/2023 6:20:13 PM

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

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Laboratory Job ID: 890-3810-1
 SDG: Lea County NM

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 7 |
| Surrogate Summary | 7 | 8 |
| QC Sample Results | 8 | 9 |
| QC Association Summary | 12 | 10 |
| Lab Chronicle | 14 | 11 |
| Certification Summary | 15 | 12 |
| Method Summary | 16 | 13 |
| Sample Summary | 17 | 14 |
| Chain of Custody | 18 | |
| Receipt Checklists | 19 | |

Definitions/Glossary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

Qualifiers**GC VOA**

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

GC Semi VOA

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

HPLC/IC

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

Glossary**Abbreviation** **These commonly used abbreviations may or may not be present in this report.**

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

Case Narrative

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
SDG: Lea County NM

Job ID: 890-3810-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3810-1****Receipt**

The sample was received on 1/10/2023 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS14 (890-3810-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-43804 and analytical batch 880-43781 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43804/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

Client Sample ID: FS14**Lab Sample ID: 890-3810-1**

Matrix: Solid

Date Collected: 01/06/23 13:20
 Date Received: 01/10/23 09:05
 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 | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 112 | | 70 - 130 | | 01/11/23 12:26 | 01/14/23 01:03 | 1 |
| 1,4-Difluorobenzene (Surr) | | 99 | | 70 - 130 | | 01/11/23 12:26 | 01/14/23 01:03 | 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 | | | 01/16/23 16:58 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 1080 | | 49.8 | mg/Kg | | | 01/13/23 12:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:23 | 1 |
| Diesel Range Organics (Over C10-C28) | 953 | | 49.8 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:23 | 1 |
| Oil Range Organics (Over C28-C36) | 125 | | 49.8 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:23 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| 106 | | | | | | | | |
| o-Terphenyl | | | | | | | | 1 |
| 118 | | | | | | | | |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 428 | | 5.00 | mg/Kg | | | 01/14/23 01:22 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3810-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-3783-A-1-A MS | Matrix Spike | 97 | 104 |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | 80 | 88 |
| 890-3810-1 | FS14 | 112 | 99 |
| LCS 880-43732/1-A | Lab Control Sample | 104 | 103 |
| LCSD 880-43732/2-A | Lab Control Sample Dup | 90 | 94 |
| MB 880-43732/5-A | Method Blank | 71 | 89 |

Surrogate Legend

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-3804-A-1-F MS | Matrix Spike | 96 | 100 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | 98 | 102 |
| 890-3810-1 | FS14 | 106 | 118 |
| LCS 880-43804/2-A | Lab Control Sample | 106 | 107 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | 122 | 121 |
| MB 880-43804/1-A | Method Blank | 144 S1+ | 154 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43732/5-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----------|-------|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 71 | | 70 - 130 | | | 01/11/23 12:26 | 01/13/23 17:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 01/11/23 12:26 | 01/13/23 17:05 | 1 |

Lab Sample ID: LCS 880-43732/1-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec |
|---------------------|-------|--------|-----------|--------|-----------|----------|---|------|--------|------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1063 | | mg/Kg | 106 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.1068 | | mg/Kg | 107 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.1090 | | mg/Kg | 109 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2280 | | mg/Kg | 114 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1083 | | mg/Kg | 108 | 70 - 130 | | | | |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | |

Lab Sample ID: LCSD 880-43732/2-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|-------|---------|-----------|--------|-----------|----------|---|------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.08286 | | mg/Kg | 83 | 70 - 130 | | 25 | 35 | | |
| Toluene | 0.100 | 0.07825 | | mg/Kg | 78 | 70 - 130 | | 31 | 35 | | |
| Ethylbenzene | 0.100 | 0.08311 | | mg/Kg | 83 | 70 - 130 | | 27 | 35 | | |
| m-Xylene & p-Xylene | 0.200 | 0.1720 | | mg/Kg | 86 | 70 - 130 | | 28 | 35 | | |
| o-Xylene | 0.100 | 0.08557 | | mg/Kg | 86 | 70 - 130 | | 23 | 35 | | |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | |

Lab Sample ID: 890-3783-A-1-A MS

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|---------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.0998 | 0.09041 | | mg/Kg | 91 | 70 - 130 | | | |
| Toluene | <0.00202 | U | 0.0998 | 0.08508 | | mg/Kg | 85 | 70 - 130 | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-3783-A-1-A MS****Matrix: Solid****Analysis Batch: 43878****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 43732**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Ethylbenzene | <0.00202 | U | 0.0998 | 0.08917 | | mg/Kg | | 89 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.200 | 0.1833 | | mg/Kg | | 92 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0998 | 0.08757 | | mg/Kg | | 88 | 70 - 130 |

Surrogate

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

Lab Sample ID: 890-3783-A-1-B MSD**Matrix: Solid****Analysis Batch: 43878****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 43732**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | RPD |
| Benzene | <0.00202 | U | 0.100 | 0.08380 | | mg/Kg | | 83 | 70 - 130 |
| Toluene | <0.00202 | U | 0.100 | 0.07632 | | mg/Kg | | 76 | 70 - 130 |
| Ethylbenzene | <0.00202 | U | 0.100 | 0.08294 | | mg/Kg | | 83 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.201 | 0.1702 | | mg/Kg | | 85 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.100 | 0.07939 | | mg/Kg | | 79 | 70 - 130 |

| Surrogate | MSD | MSD |
|-----------------------------|-----------|-----------|
| | %Recovery | Qualifier |
| 4-Bromofluorobenzene (Surr) | 80 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 88 | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-43804/1-A****Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 43804**

| 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 | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| o-Terphenyl | 154 | S1+ | 70 - 130 | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

Lab Sample ID: LCS 880-43804/2-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 949.4 | | mg/Kg | | 95 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 934.9 | | mg/Kg | | 93 | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

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

Lab Sample ID: LCS 880-43804/2-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43804

| Surrogate | LCS | LCS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 106 | | 70 - 130 |
| <i>o</i> -Terphenyl | 107 | | 70 - 130 |

Lab Sample ID: LCSD 880-43804/3-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Spike | LCSD | LCSD | | %Rec | RPD |
|--------------------------------------|-------|--------|-----------|-------|------|----------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 914.9 | | mg/Kg | 91 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1075 | | mg/Kg | 108 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 122 | | 70 - 130 |
| <i>o</i> -Terphenyl | 121 | | 70 - 130 |

Lab Sample ID: 890-3804-A-1-F MS

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 998 | 891.6 | | mg/Kg | 88 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 983.2 | | mg/Kg | 99 |

| Surrogate | MS | MS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 96 | | 70 - 130 |
| <i>o</i> -Terphenyl | 100 | | 70 - 130 |

Lab Sample ID: 890-3804-A-1-G MSD

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 997 | 1139 | F2 | mg/Kg | 113 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1082 | | mg/Kg | 109 |

| Surrogate | MSD | MSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 98 | | 70 - 130 |
| <i>o</i> -Terphenyl | 102 | | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43792/1-A

Matrix: Solid

Analysis Batch: 43924

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 | | | 01/13/23 23:50 | 1 |

Lab Sample ID: LCS 880-43792/2-A

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------|
| Chloride | 250 | 255.0 | | mg/Kg | | 102 | 90 - 110 |

Lab Sample ID: LCSD 880-43792/3-A

Matrix: Solid

Analysis Batch: 43924

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD |
|----------|----------------|----------------|-------------------|-------|---|------|----------|
| Chloride | 250 | 251.6 | | mg/Kg | | 101 | 90 - 110 |

Lab Sample ID: 890-3810-1 MS

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: FS14
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | RPD |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|
| Chloride | 428 | | 250 | 673.4 | | mg/Kg | | 98 | 90 - 110 |

Lab Sample ID: 890-3810-1 MSD

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: FS14
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|
| Chloride | 428 | | 250 | 670.2 | | mg/Kg | | 97 | 90 - 110 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

GC VOA**Prep Batch: 43732**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3810-1 | FS14 | Total/NA | Solid | 5035 | |
| MB 880-43732/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-43732/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-43732/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3783-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 43878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3810-1 | FS14 | Total/NA | Solid | 8021B | 43732 |
| MB 880-43732/5-A | Method Blank | Total/NA | Solid | 8021B | 43732 |
| LCS 880-43732/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 43732 |
| LCSD 880-43732/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 43732 |
| 890-3783-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 43732 |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 43732 |

Analysis Batch: 44089

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3810-1 | FS14 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 43781**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3810-1 | FS14 | Total/NA | Solid | 8015B NM | 43804 |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015B NM | 43804 |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 43804 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 43804 |

Prep Batch: 43804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3810-1 | FS14 | Total/NA | Solid | 8015NM Prep | |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 43888

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3810-1 | FS14 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 43792**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3810-1 | FS14 | Soluble | Solid | DI Leach | |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

HPLC/IC (Continued)**Leach Batch: 43792 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 890-3810-1 MS | FS14 | Soluble | Solid | DI Leach | |
| 890-3810-1 MSD | FS14 | Soluble | Solid | DI Leach | |

Analysis Batch: 43924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3810-1 | FS14 | Soluble | Solid | 300.0 | 43792 |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | 300.0 | 43792 |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 43792 |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 43792 |
| 890-3810-1 MS | FS14 | Soluble | Solid | 300.0 | 43792 |
| 890-3810-1 MSD | FS14 | Soluble | Solid | 300.0 | 43792 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
 SDG: Lea County NM

Client Sample ID: FS14**Lab Sample ID: 890-3810-1**

Date Collected: 01/06/23 13:20

Matrix: Solid

Date Received: 01/10/23 09:05

| 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 | 43732 | 01/11/23 12:26 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43878 | 01/14/23 01:03 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 44089 | 01/16/23 16:58 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43888 | 01/13/23 12:42 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 43804 | 01/12/23 11:42 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43781 | 01/13/23 03:23 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 43792 | 01/12/23 09:21 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43924 | 01/14/23 01:22 | 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: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
SDG: Lea County NM

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3810-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Job ID: 890-3810-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3810-1 | FS14 | Solid | 01/06/23 13:20 | 01/10/23 09:05 | 1 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14


Environment Testing
Xenco
Chain of Custody

Work Order No.: _____

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

www.xenco.com

Page 1 of 1

| | | | | | |
|------------------|-------------------------------|--|---------------------------|--|--|
| Project Manager: | Hadlie Green | | Billed to: (if different) | Kalee Jennings | |
| Company Name: | Ensolum, LLC | | Company Name: | Ensolum, LLC | |
| Address: | 601 N Marienfeld St Suite 400 | | Address: | | |
| City, State ZIP: | Midland, TX 79701 | | City, State ZIP: | Midland, TX 79701 | |
| Phone: | 432-557-8895 | | Email: | kjemmings@ensolum.com; hggreen@ensolum.com | |

| | | | | | |
|--------------------------|--------------------------------------|---|---|--------------------------------------|----|
| ANALYSIS REQUEST | | | | | |
| Project Number: | 03D2057047 | <input checked="" type="checkbox"/> Routine | <input type="checkbox"/> Rush | Pres. Code | |
| Project Location: | Lea County, NM | | Due Date: | | |
| Sampler's Name: | Dmitry Nikanorov | | TAT starts the day received by the lab, if received by 4:30pm | | |
| PO #: | | | | | |
| SAMPLE RECEIPT | | | | | |
| Samples Received Intact: | <input checked="" type="radio"/> Yes | <input type="radio"/> No | Wet Ice: | <input checked="" type="radio"/> Yes | No |
| Cooler Custody Seals: | <input checked="" type="radio"/> Yes | <input type="radio"/> No | Thermometer ID: | 100-007 | |
| Sample Custody Seals: | <input checked="" type="radio"/> Yes | <input type="radio"/> No | Correction Factor: | -0.2 | |
| Total Containers: | | | Temperature Reading: | 32.8 | |
| Corrected Temperature: | | | | | |

Parameters



890-3810 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|-------------|-----------------|
| FS14 | S | 1/6/2023 | 13:20 | 1' | Comp | 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 SiO₂ 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 | Corey Cip | 1-10-23 9:05 ² | | | 4 |
| 3 | | | | | |
| 5 | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3810-1

SDG Number: Lea County NM

Login Number: 3810**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Clifton, Cloe**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: 890-3810-1

1

SDG Number: Lea County NM

2

Login Number: 3810**List Source:** Eurofins Midland

3

List Number: 2**List Creation:** 01/11/23 11:43 AM

4

Creator: Teel, Brianna

5

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



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/16/2023 6:20:07 PM

JOB DESCRIPTION

Jalmat Yates Sand Unit #170
SDG NUMBER Lea County NM

JOB NUMBER

890-3811-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 5/1/2023 11:55:12 AM

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
1/16/2023 6:20:07 PM

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

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Laboratory Job ID: 890-3811-1
SDG: Lea County NM

Table of Contents

| | |
|------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 7 |
| QC Sample Results | 8 |
| QC Association Summary | 12 |
| Lab Chronicle | 14 |
| Certification Summary | 15 |
| Method Summary | 16 |
| Sample Summary | 17 |
| Chain of Custody | 18 |
| Receipt Checklists | 19 |

Definitions/Glossary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

Qualifiers**GC VOA**

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

GC Semi VOA

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

HPLC/IC

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

Glossary**Abbreviation** **These commonly used abbreviations may or may not be present in this report.**

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

Case Narrative

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
SDG: Lea County NM

Job ID: 890-3811-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3811-1****Receipt**

The sample was received on 1/10/2023 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS15 (890-3811-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-43804 and analytical batch 880-43781 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43804/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

Client Sample ID: FS15**Lab Sample ID: 890-3811-1**

Matrix: Solid

Date Collected: 01/06/23 13:35
 Date Received: 01/10/23 09:05
 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 | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 109 | | 70 - 130 | | 01/11/23 12:26 | 01/14/23 01:30 | 1 |
| 1,4-Difluorobenzene (Surr) | | 96 | | 70 - 130 | | 01/11/23 12:26 | 01/14/23 01:30 | 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 | | | 01/16/23 16:58 | 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 | | | 01/13/23 12:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 01/12/23 11:42 | 01/12/23 22:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 01/12/23 11:42 | 01/12/23 22:38 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 01/12/23 11:42 | 01/12/23 22:38 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 286 | | 5.02 | mg/Kg | | | 01/14/23 01:39 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3811-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | BFB1 (70-130) | DFBZ1 (70-130) | |
| 890-3783-A-1-A MS | Matrix Spike | 97 | 104 | |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | 80 | 88 | |
| 890-3811-1 | FS15 | 109 | 96 | |
| LCS 880-43732/1-A | Lab Control Sample | 104 | 103 | |
| LCSD 880-43732/2-A | Lab Control Sample Dup | 90 | 94 | |
| MB 880-43732/5-A | Method Blank | 71 | 89 | |

Surrogate Legend

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 890-3804-A-1-F MS | Matrix Spike | 96 | 100 | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | 98 | 102 | |
| 890-3811-1 | FS15 | 113 | 126 | |
| LCS 880-43804/2-A | Lab Control Sample | 106 | 107 | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | 122 | 121 | |
| MB 880-43804/1-A | Method Blank | 144 S1+ | 154 S1+ | |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43732/5-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----------|-------|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 71 | | 70 - 130 | | | 01/11/23 12:26 | 01/13/23 17:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 01/11/23 12:26 | 01/13/23 17:05 | 1 |

Lab Sample ID: LCS 880-43732/1-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec |
|---------------------|-------|--------|-----------|--------|-----------|----------|---|------|--------|------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1063 | | mg/Kg | 106 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.1068 | | mg/Kg | 107 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.1090 | | mg/Kg | 109 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2280 | | mg/Kg | 114 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1083 | | mg/Kg | 108 | 70 - 130 | | | | |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | |

Lab Sample ID: LCSD 880-43732/2-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|-------|---------|-----------|--------|-----------|----------|---|------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.08286 | | mg/Kg | 83 | 70 - 130 | | 25 | 35 | | |
| Toluene | 0.100 | 0.07825 | | mg/Kg | 78 | 70 - 130 | | 31 | 35 | | |
| Ethylbenzene | 0.100 | 0.08311 | | mg/Kg | 83 | 70 - 130 | | 27 | 35 | | |
| m-Xylene & p-Xylene | 0.200 | 0.1720 | | mg/Kg | 86 | 70 - 130 | | 28 | 35 | | |
| o-Xylene | 0.100 | 0.08557 | | mg/Kg | 86 | 70 - 130 | | 23 | 35 | | |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | |

Lab Sample ID: 890-3783-A-1-A MS

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|---------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.0998 | 0.09041 | | mg/Kg | 91 | 70 - 130 | | | |
| Toluene | <0.00202 | U | 0.0998 | 0.08508 | | mg/Kg | 85 | 70 - 130 | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-3783-A-1-A MS****Matrix: Solid****Analysis Batch: 43878****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 43732**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Ethylbenzene | <0.00202 | U | 0.0998 | 0.08917 | | mg/Kg | | 89 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.200 | 0.1833 | | mg/Kg | | 92 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0998 | 0.08757 | | mg/Kg | | 88 | 70 - 130 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 97 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 104 | | | 70 - 130 | | | | | |

Lab Sample ID: 890-3783-A-1-B MSD**Matrix: Solid****Analysis Batch: 43878****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 43732**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | RPD | |
| Benzene | <0.00202 | U | 0.100 | 0.08380 | | mg/Kg | | 83 | 70 - 130 | 8 |
| Toluene | <0.00202 | U | 0.100 | 0.07632 | | mg/Kg | | 76 | 70 - 130 | 11 |
| Ethylbenzene | <0.00202 | U | 0.100 | 0.08294 | | mg/Kg | | 83 | 70 - 130 | 7 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.201 | 0.1702 | | mg/Kg | | 85 | 70 - 130 | 7 |
| o-Xylene | <0.00202 | U | 0.100 | 0.07939 | | mg/Kg | | 79 | 70 - 130 | 10 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 80 | | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 88 | | | 70 - 130 | | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-43804/1-A****Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 43804**

| 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 | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| <i>o-Terphenyl</i> | 154 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

Lab Sample ID: LCS 880-43804/2-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 949.4 | | mg/Kg | | 95 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 934.9 | | mg/Kg | | 93 | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

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

Lab Sample ID: LCS 880-43804/2-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43804

| Surrogate | LCS | LCS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 106 | | 70 - 130 |
| <i>o</i> -Terphenyl | 107 | | 70 - 130 |

Lab Sample ID: LCSD 880-43804/3-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Spike | LCSD | LCSD | | %Rec | RPD |
|--------------------------------------|-------|--------|-----------|-------|------|----------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 914.9 | | mg/Kg | 91 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1075 | | mg/Kg | 108 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 122 | | 70 - 130 |
| <i>o</i> -Terphenyl | 121 | | 70 - 130 |

Lab Sample ID: 890-3804-A-1-F MS

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 998 | 891.6 | | mg/Kg | 88 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 983.2 | | mg/Kg | 99 |

| Surrogate | MS | MS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 96 | | 70 - 130 |
| <i>o</i> -Terphenyl | 100 | | 70 - 130 |

Lab Sample ID: 890-3804-A-1-G MSD

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 997 | 1139 | F2 | mg/Kg | 113 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1082 | | mg/Kg | 109 |

| Surrogate | MSD | MSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 98 | | 70 - 130 |
| <i>o</i> -Terphenyl | 102 | | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43792/1-A

Matrix: Solid

Analysis Batch: 43924

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 | | | 01/13/23 23:50 | 1 |

Lab Sample ID: LCS 880-43792/2-A

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------|
| Chloride | 250 | 255.0 | | mg/Kg | | 102 | 90 - 110 |

Lab Sample ID: LCSD 880-43792/3-A

Matrix: Solid

Analysis Batch: 43924

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------|-------|
| Chloride | 250 | 251.6 | | mg/Kg | | 101 | 90 - 110 | 1 20 |

Lab Sample ID: 890-3810-A-1-C MS

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Matrix Spike
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | RPD | Limit |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|-------|
| Chloride | 428 | | 250 | 673.4 | | mg/Kg | | 98 | 90 - 110 | |

Lab Sample ID: 890-3810-A-1-D MSD

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|-------|
| Chloride | 428 | | 250 | 670.2 | | mg/Kg | | 97 | 90 - 110 | 0 20 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

GC VOA**Prep Batch: 43732**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3811-1 | FS15 | Total/NA | Solid | 5035 | |
| MB 880-43732/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-43732/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-43732/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3783-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 43878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3811-1 | FS15 | Total/NA | Solid | 8021B | 43732 |
| MB 880-43732/5-A | Method Blank | Total/NA | Solid | 8021B | 43732 |
| LCS 880-43732/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 43732 |
| LCSD 880-43732/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 43732 |
| 890-3783-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 43732 |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 43732 |

Analysis Batch: 44090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3811-1 | FS15 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 43781**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3811-1 | FS15 | Total/NA | Solid | 8015B NM | 43804 |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015B NM | 43804 |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 43804 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 43804 |

Prep Batch: 43804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3811-1 | FS15 | Total/NA | Solid | 8015NM Prep | |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 43883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3811-1 | FS15 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 43792**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3811-1 | FS15 | Soluble | Solid | DI Leach | |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

HPLC/IC (Continued)**Leach Batch: 43792 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3810-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3810-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 43924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3811-1 | FS15 | Soluble | Solid | 300.0 | 43792 |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | 300.0 | 43792 |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 43792 |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 43792 |
| 890-3810-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 43792 |
| 890-3810-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 43792 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
 SDG: Lea County NM

Client Sample ID: FS15**Lab Sample ID: 890-3811-1**

Date Collected: 01/06/23 13:35

Matrix: Solid

Date Received: 01/10/23 09:05

| 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 | 43732 | 01/11/23 12:26 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43878 | 01/14/23 01:30 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 44090 | 01/16/23 16:58 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43883 | 01/13/23 12:42 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 43804 | 01/12/23 11:42 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43781 | 01/12/23 22:38 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 43792 | 01/12/23 09:21 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43924 | 01/14/23 01:39 | 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: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
SDG: Lea County NM

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3811-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Job ID: 890-3811-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----|
| 890-3811-1 | FS15 | Solid | 01/06/23 13:35 | 01/10/23 09:05 | 2 | |
| | | | | | | 1 |
| | | | | | | 2 |
| | | | | | | 3 |
| | | | | | | 4 |
| | | | | | | 5 |
| | | | | | | 6 |
| | | | | | | 7 |
| | | | | | | 8 |
| | | | | | | 9 |
| | | | | | | 10 |
| | | | | | | 11 |
| | | | | | | 12 |
| | | | | | | 13 |
| | | | | | | 14 |



Environment Testing

X
60

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
State Water Board NMB 1575, 088 2100

Work Order No:

| | | | | | | |
|----------------------------|---|--------------------------------|---|-------------------------------|------------------------------------|--------------------------|
| Project Manager: | Hadlie Green | Bill to (if different): | Katei 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: | 432-557-8895 | Email: | kjeanings@ensolum.com; hgreen@ensolum.com | | | |
| Work Order Comments | | | | | | |
| Program: | <input checked="" type="checkbox"/> UST/PST | <input type="checkbox"/> PRP | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RRC | <input type="checkbox"/> Superfund | <input type="checkbox"/> |
| State of Project: | | | | | | |
| Reporting Level: | <input type="checkbox"/> II | <input type="checkbox"/> III | <input type="checkbox"/> PST/UST | <input type="checkbox"/> TRRP | <input type="checkbox"/> Level IV | <input type="checkbox"/> |
| Deliverables: | <input type="checkbox"/> EDD | <input type="checkbox"/> ADaPT | <input type="checkbox"/> | Other: | | |

| | | | | |
|--|---|---|------------------|--|
| Project Name: | Jalmar Yates Sand Unit 170 | Turn Around | ANALYSIS REQUEST | |
| Project Number: | 03D2057047 | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Location: | Lea County, NM | Due Date: | | |
| Sampler's Name: | Dmitry Nikanorov | TAT starts the day received by the lab, if received by 4:30pm | | |
| PO #: | | | | |
| SAMPLE RECEIPT | Temp Blank: <input checked="" type="radio"/> Yes <input type="radio"/> No | Wet Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No | | |
| Samples Received Intact: | <input checked="" type="radio"/> Yes <input type="radio"/> No | Thermometer ID: <input type="text" value="JN1000"/> | | |
| Cooler Custody Seals: | Yes <input type="radio"/> No <input checked="" type="radio"/> N/A | Correction Factor: <input type="text" value="1.0"/> | | |
| Sample Custody Seals: | Yes <input type="radio"/> No <input checked="" type="radio"/> N/A | Temperature Reading: <input type="text" value="22.8"/> | | |
| Parameters | | | | |
| ES (EPA: 300.0) | | | | |
|  890-3811 Chain of Custody | | | | |

Page 18 of 20

1/16/2023

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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLPM 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.

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3811-1

SDG Number: Lea County NM

Login Number: 3811**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Clifton, Cloe

| 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: 890-3811-1

SDG Number: Lea County NM

Login Number: 3811**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 01/11/23 11:43 AM**Creator:** Teel, Brianna

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | True | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | | |



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/16/2023 6:20:57 PM

JOB DESCRIPTION

Jalmat Yates Sand Unit #170
SDG NUMBER Lea County NM

JOB NUMBER

890-3812-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
1/16/2023 6:20:57 PM

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

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Laboratory Job ID: 890-3812-1
 SDG: Lea County NM

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 7 |
| Surrogate Summary | 7 | 8 |
| QC Sample Results | 8 | 9 |
| QC Association Summary | 12 | 10 |
| Lab Chronicle | 14 | 11 |
| Certification Summary | 15 | 12 |
| Method Summary | 16 | 13 |
| Sample Summary | 17 | 14 |
| Chain of Custody | 18 | |
| Receipt Checklists | 19 | |

Definitions/Glossary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

Qualifiers**GC VOA**

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

GC Semi VOA

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

HPLC/IC

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

Glossary**Abbreviation** **These commonly used abbreviations may or may not be present in this report.**

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

Case Narrative

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
SDG: Lea County NM

Job ID: 890-3812-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3812-1****Receipt**

The sample was received on 1/10/2023 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS04 (890-3812-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-43804 and analytical batch 880-43781 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43804/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

Client Sample ID: FS04**Lab Sample ID: 890-3812-1**

Matrix: Solid

Date Collected: 01/06/23 09:55
 Date Received: 01/10/23 09:05
 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 | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| o-Xylene | 0.00579 | | 0.00199 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| Xylenes, Total | 0.00579 | | 0.00398 | mg/Kg | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | 01/11/23 12:26 | 01/14/23 01:57 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.00579 | | 0.00398 | mg/Kg | | | 01/16/23 16:58 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 81.7 | | 50.0 | mg/Kg | | | 01/13/23 12:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:02 | 1 |
| Diesel Range Organics (Over C10-C28) | 81.7 | | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:02 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 87 | | 70 - 130 | | | 01/12/23 11:42 | 01/13/23 03:02 | 1 |
| <i>o-Terphenyl</i> | 92 | | 70 - 130 | | | 01/12/23 11:42 | 01/13/23 03:02 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 543 | | 5.00 | mg/Kg | | | 01/14/23 01:44 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3812-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-3783-A-1-A MS | Matrix Spike | 97 | 104 |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | 80 | 88 |
| 890-3812-1 | FS04 | 104 | 90 |
| LCS 880-43732/1-A | Lab Control Sample | 104 | 103 |
| LCSD 880-43732/2-A | Lab Control Sample Dup | 90 | 94 |
| MB 880-43732/5-A | Method Blank | 71 | 89 |

Surrogate Legend

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-3804-A-1-F MS | Matrix Spike | 96 | 100 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | 98 | 102 |
| 890-3812-1 | FS04 | 87 | 92 |
| LCS 880-43804/2-A | Lab Control Sample | 106 | 107 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | 122 | 121 |
| MB 880-43804/1-A | Method Blank | 144 S1+ | 154 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43732/5-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----------|-------|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/11/23 12:26 | 01/13/23 17:05 | | 1 | |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 71 | | 70 - 130 | | | 01/11/23 12:26 | 01/13/23 17:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 01/11/23 12:26 | 01/13/23 17:05 | 1 |

Lab Sample ID: LCS 880-43732/1-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec |
|---------------------|-------|--------|-----------|--------|-----------|----------|---|------|--------|------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1063 | | mg/Kg | 106 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.1068 | | mg/Kg | 107 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.1090 | | mg/Kg | 109 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2280 | | mg/Kg | 114 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1083 | | mg/Kg | 108 | 70 - 130 | | | | |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | |

Lab Sample ID: LCSD 880-43732/2-A

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|-------|---------|-----------|--------|-----------|----------|---|------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.08286 | | mg/Kg | 83 | 70 - 130 | | 25 | 35 | | |
| Toluene | 0.100 | 0.07825 | | mg/Kg | 78 | 70 - 130 | | 31 | 35 | | |
| Ethylbenzene | 0.100 | 0.08311 | | mg/Kg | 83 | 70 - 130 | | 27 | 35 | | |
| m-Xylene & p-Xylene | 0.200 | 0.1720 | | mg/Kg | 86 | 70 - 130 | | 28 | 35 | | |
| o-Xylene | 0.100 | 0.08557 | | mg/Kg | 86 | 70 - 130 | | 23 | 35 | | |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | |

Lab Sample ID: 890-3783-A-1-A MS

Matrix: Solid

Analysis Batch: 43878

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43732

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|---------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.0998 | 0.09041 | | mg/Kg | 91 | 70 - 130 | | | |
| Toluene | <0.00202 | U | 0.0998 | 0.08508 | | mg/Kg | 85 | 70 - 130 | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-3783-A-1-A MS****Matrix: Solid****Analysis Batch: 43878****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 43732**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Ethylbenzene | <0.00202 | U | 0.0998 | 0.08917 | | mg/Kg | | 89 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.200 | 0.1833 | | mg/Kg | | 92 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0998 | 0.08757 | | mg/Kg | | 88 | 70 - 130 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 97 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 104 | | | 70 - 130 | | | | | |

Lab Sample ID: 890-3783-A-1-B MSD**Matrix: Solid****Analysis Batch: 43878****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 43732**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | RPD | |
| Benzene | <0.00202 | U | 0.100 | 0.08380 | | mg/Kg | | 83 | 70 - 130 | 8 |
| Toluene | <0.00202 | U | 0.100 | 0.07632 | | mg/Kg | | 76 | 70 - 130 | 11 |
| Ethylbenzene | <0.00202 | U | 0.100 | 0.08294 | | mg/Kg | | 83 | 70 - 130 | 7 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.201 | 0.1702 | | mg/Kg | | 85 | 70 - 130 | 7 |
| o-Xylene | <0.00202 | U | 0.100 | 0.07939 | | mg/Kg | | 79 | 70 - 130 | 10 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 80 | | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 88 | | | 70 - 130 | | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-43804/1-A****Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 43804**

| 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 | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| <i>o-Terphenyl</i> | 154 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

Lab Sample ID: LCS 880-43804/2-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 949.4 | | mg/Kg | | 95 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 934.9 | | mg/Kg | | 93 | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

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

Lab Sample ID: LCS 880-43804/2-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43804

| Surrogate | LCS | LCS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 106 | | 70 - 130 |
| <i>o</i> -Terphenyl | 107 | | 70 - 130 |

Lab Sample ID: LCSD 880-43804/3-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Spike | LCSD | LCSD | | %Rec | RPD |
|--------------------------------------|-------|--------|-----------|-------|------|----------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 914.9 | | mg/Kg | 91 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1075 | | mg/Kg | 108 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 122 | | 70 - 130 |
| <i>o</i> -Terphenyl | 121 | | 70 - 130 |

Lab Sample ID: 890-3804-A-1-F MS

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 998 | 891.6 | | mg/Kg | 88 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 983.2 | | mg/Kg | 99 |

| Surrogate | MS | MS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 96 | | 70 - 130 |
| <i>o</i> -Terphenyl | 100 | | 70 - 130 |

Lab Sample ID: 890-3804-A-1-G MSD

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 997 | 1139 | F2 | mg/Kg | 113 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1082 | | mg/Kg | 109 |

| Surrogate | MSD | MSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 98 | | 70 - 130 |
| <i>o</i> -Terphenyl | 102 | | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43792/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 43924

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 01/13/23 23:50 | 1 |

Lab Sample ID: LCS 880-43792/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 43924

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
|----------|----------------|---------------|------------------|-------|---|------|----------|--|
| Chloride | 250 | 255.0 | | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-43792/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 43924

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------|-----|-------|
| Chloride | 250 | 251.6 | | mg/Kg | | 101 | 90 - 110 | 1 | 20 |

Lab Sample ID: 890-3810-A-1-C MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 43924

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|-----|-------|
| Chloride | 428 | | 250 | 673.4 | | mg/Kg | | 98 | 90 - 110 | | |

Lab Sample ID: 890-3810-A-1-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 43924

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|-----|-------|
| Chloride | 428 | | 250 | 670.2 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

GC VOA**Prep Batch: 43732**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3812-1 | FS04 | Total/NA | Solid | 5035 | |
| MB 880-43732/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-43732/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-43732/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3783-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 43878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3812-1 | FS04 | Total/NA | Solid | 8021B | 43732 |
| MB 880-43732/5-A | Method Blank | Total/NA | Solid | 8021B | 43732 |
| LCS 880-43732/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 43732 |
| LCSD 880-43732/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 43732 |
| 890-3783-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 43732 |
| 890-3783-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 43732 |

Analysis Batch: 44091

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3812-1 | FS04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 43781**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3812-1 | FS04 | Total/NA | Solid | 8015B NM | 43804 |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015B NM | 43804 |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 43804 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 43804 |

Prep Batch: 43804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3812-1 | FS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 43887

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3812-1 | FS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 43792**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3812-1 | FS04 | Soluble | Solid | DI Leach | |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

HPLC/IC (Continued)**Leach Batch: 43792 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3810-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3810-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 43924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3812-1 | FS04 | Soluble | Solid | 300.0 | 43792 |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | 300.0 | 43792 |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 43792 |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 43792 |
| 890-3810-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 43792 |
| 890-3810-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 43792 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

Client Sample ID: FS04**Lab Sample ID: 890-3812-1**

Date Collected: 01/06/23 09:55

Matrix: Solid

Date Received: 01/10/23 09:05

| 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 | 43732 | 01/11/23 12:26 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43878 | 01/14/23 01:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 44091 | 01/16/23 16:58 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43887 | 01/13/23 12:42 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 43804 | 01/12/23 11:42 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43781 | 01/13/23 03:02 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 43792 | 01/12/23 09:21 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43924 | 01/14/23 01:44 | 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: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
SDG: Lea County NM

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3812-1
 SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Job ID: 890-3812-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3812-1 | FS04 | Solid | 01/06/23 09:55 | 01/10/23 09:05 | 1 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

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


Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 El Paso, TX (915) 565-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager: Hadlie Green Bill to: (if different) Kali 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: 432-557-8895 Email: kjenning@ensolum.com; hggreen@ensolum.com

| ANALYSIS REQUEST | | Preservative Codes | |
|---|---|---|---|
| Project Name: | Jalmat Yates Sand Unit 170 | Turn Around | |
| Project Number: | 03D2057047 | <input checked="" type="checkbox"/> Routine | <input type="checkbox"/> Rush |
| Project Location: | Lea County, NM | Date Due: | |
| Sampler's Name: | Dmitry Nikanorov | TAT Starts the day received by the lab, if received by 4:30pm | |
| PO #: | | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| SAMPLE RECEIPT | | Parameters | |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID: | T01/M307 |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Temperature Reading: | 2.5 |
| Total Containers: | | Corrected Temperature: | 2.4 |
| CHLORIDES (EPA: 300.0)  890-3812 Chain of Custody  | | | |
| TPH (8015) BTEX (8021) | | | |
| Sample Identification Matrix Date Sampled Time Sampled Depth Grab # of Cont FS04 S 1/6/2023 9:55 1' Comp 1 X X X X | | | |
| Sample Comments Incident Number: Q-N-02106162 | | | |

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 SiO₂ 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 / 470 / 7471

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|-----------|
| <i>PL</i> | <i>Qul G</i> | 1-10-23 905 | | | |
| 3 | | | | | |
| 5 | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3812-1

SDG Number: Lea County NM

Login Number: 3812**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Clifton, Cloe**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: 890-3812-1

SDG Number: Lea County NM

Login Number: 3812**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 01/11/23 11:43 AM**Creator:** Teel, Brianna

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | True | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | | |



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/17/2023 2:04:25 PM

JOB DESCRIPTION

Jalmat Yates Sand Unit #170
SDG NUMBER Lea County NM

JOB NUMBER

890-3813-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
1/17/2023 2:04:25 PM

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

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Laboratory Job ID: 890-3813-1
 SDG: Lea County NM

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 7 |
| Surrogate Summary | 7 | 8 |
| QC Sample Results | 8 | 9 |
| QC Association Summary | 12 | 10 |
| Lab Chronicle | 14 | 11 |
| Certification Summary | 15 | 12 |
| Method Summary | 16 | 13 |
| Sample Summary | 17 | 14 |
| Chain of Custody | 18 | |
| Receipt Checklists | 19 | |

Definitions/Glossary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
 SDG: Lea County NM

Qualifiers**GC VOA**

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

GC Semi VOA

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

HPLC/IC

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

Glossary**Abbreviation** **These commonly used abbreviations may or may not be present in this report.**

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

Case Narrative

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
SDG: Lea County NM

Job ID: 890-3813-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3813-1****Receipt**

The sample was received on 1/10/2023 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS06 (890-3813-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-43804 and analytical batch 880-43781 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43804/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
 SDG: Lea County NM

Client Sample ID: FS06**Lab Sample ID: 890-3813-1**

Matrix: Solid

Date Collected: 01/06/23 10:25
 Date Received: 01/10/23 09:05
 Sample Depth: 1

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 | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 118 | | 70 - 130 | | 01/13/23 13:36 | 01/16/23 21:25 | 1 |
| 1,4-Difluorobenzene (Surr) | | 104 | | 70 - 130 | | 01/13/23 13:36 | 01/16/23 21:25 | 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 | | | 01/17/23 14:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 627 | | 50.0 | mg/Kg | | | 01/13/23 12:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:45 | 1 |
| Diesel Range Organics (Over C10-C28) | 543 | | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:45 | 1 |
| Oil Range Organics (Over C28-C36) | 83.5 | | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/13/23 03:45 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | 94 | | 70 - 130 | | 01/12/23 11:42 | 01/13/23 03:45 | 1 |
| o-Terphenyl | | 102 | | 70 - 130 | | 01/12/23 11:42 | 01/13/23 03:45 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1460 | | 4.98 | mg/Kg | | | 01/14/23 02:01 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3813-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | BFB1 (70-130) | DFBZ1 (70-130) | |
| 890-3808-A-1-D MS | Matrix Spike | 111 | 102 | |
| 890-3808-A-1-E MSD | Matrix Spike Duplicate | 112 | 103 | |
| 890-3813-1 | FS06 | 118 | 104 | |
| LCS 880-43748/1-A | Lab Control Sample | 111 | 100 | |
| LCSD 880-43748/2-A | Lab Control Sample Dup | 112 | 105 | |
| MB 880-43748/5-A | Method Blank | 112 | 100 | |
| MB 880-43960/8 | Method Blank | 110 | 99 | |

Surrogate Legend

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 890-3804-A-1-F MS | Matrix Spike | 96 | 100 | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | 98 | 102 | |
| 890-3813-1 | FS06 | 94 | 102 | |
| LCS 880-43804/2-A | Lab Control Sample | 106 | 107 | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | 122 | 121 | |
| MB 880-43804/1-A | Method Blank | 144 S1+ | 154 S1+ | |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-43748/5-A****Matrix: Solid****Analysis Batch: 43960****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 43748**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | 01/13/23 13:36 | 01/16/23 19:34 | | 1 | |

Lab Sample ID: LCS 880-43748/1-A**Matrix: Solid****Analysis Batch: 43960****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 43748**

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1121 | | mg/Kg | 112 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.1077 | | mg/Kg | 108 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.1052 | | mg/Kg | 105 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2165 | | mg/Kg | 108 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1024 | | mg/Kg | 102 | 70 - 130 | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | | | | |

Lab Sample ID: LCSD 880-43748/2-A**Matrix: Solid****Analysis Batch: 43960****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 43748**

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.1159 | | mg/Kg | 116 | 70 - 130 | | | | 3 | 35 |
| Toluene | 0.100 | 0.1086 | | mg/Kg | 109 | 70 - 130 | | | | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1066 | | mg/Kg | 107 | 70 - 130 | | | | 1 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2192 | | mg/Kg | 110 | 70 - 130 | | | | 1 | 35 |
| o-Xylene | 0.100 | 0.1045 | | mg/Kg | 105 | 70 - 130 | | | | 2 | 35 |
| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-3808-A-1-D MS**Matrix: Solid****Analysis Batch: 43960****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 43748**

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|-------|---------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.101 | 0.09870 | | mg/Kg | 98 | 70 - 130 | | | |
| Toluene | <0.00200 | U | 0.101 | 0.09623 | | mg/Kg | 95 | 70 - 130 | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
SDG: Lea County NM

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

Lab Sample ID: 890-3808-A-1-D MS

Matrix: Solid

Analysis Batch: 43960

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43748

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00200 | U | 0.101 | 0.09472 | | mg/Kg | | 94 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.202 | 0.1946 | | mg/Kg | | 96 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.101 | 0.09494 | | mg/Kg | | 94 | 70 - 130 |

| Surrogate | MS | MS | %Recovery | Qualifier | Limits |
|-----------------------------|----------|-----------|-----------|-----------|----------|
| | Recovery | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 111 | | | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | | | 70 - 130 |

Lab Sample ID: 890-3808-A-1-E MSD

Matrix: Solid

Analysis Batch: 43960

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43748

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00200 | U | 0.0996 | 0.1006 | | mg/Kg | | 101 | 70 - 130 |
| Toluene | <0.00200 | U | 0.0996 | 0.09733 | | mg/Kg | | 98 | 70 - 130 |
| Ethylbenzene | <0.00200 | U | 0.0996 | 0.09546 | | mg/Kg | | 96 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.199 | 0.1956 | | mg/Kg | | 98 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.0996 | 0.09472 | | mg/Kg | | 95 | 70 - 130 |

| Surrogate | MSD | MSD | %Recovery | Qualifier | Limits |
|-----------------------------|----------|-----------|-----------|-----------|----------|
| | Recovery | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | | | 70 - 130 |

Lab Sample ID: MB 880-43960/8

Matrix: Solid

Analysis Batch: 43960

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 01/16/23 12:24 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/16/23 12:24 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/16/23 12:24 | | 1 |

| Surrogate | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|----|------|---|----------|----------------|---------|
| | Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | | | | | 01/16/23 12:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | | | | | 01/16/23 12:24 | 1 |

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

Lab Sample ID: MB 880-43804/1-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43804

| 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 | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-43804/1-A****Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | MB | | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|-----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| Surrogate | MB | | MB | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |
| <i>o-Terphenyl</i> | 154 | S1+ | 70 - 130 | | | 01/12/23 11:42 | 01/12/23 19:44 | 1 |

Lab Sample ID: LCS 880-43804/2-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Spike | | Unit | D | %Rec | |
|--------------------------------------|------------|-----------|------------|---|------|----------|
| | Added | Result | | | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 949.4 | mg/Kg | | 95 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 934.9 | mg/Kg | | 93 | 70 - 130 |
| Surrogate | LCS | | LCS | | | |
| | %Recovery | Qualifier | Limits | | | |
| 1-Chlorooctane | 106 | | 70 - 130 | | | |
| <i>o-Terphenyl</i> | 107 | | 70 - 130 | | | |

Lab Sample ID: LCSD 880-43804/3-A**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Spike | | Unit | D | %Rec | | RPD |
|--------------------------------------|-------------|-----------|-------------|---|------|----------|-----|
| | Added | Result | | | %Rec | Limits | RPD |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 914.9 | mg/Kg | | 91 | 70 - 130 | 4 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1075 | mg/Kg | | 108 | 70 - 130 | 14 |
| Surrogate | LCSD | | LCSD | | | | |
| | %Recovery | Qualifier | Limits | | | | |
| 1-Chlorooctane | 122 | | 70 - 130 | | | | |
| <i>o-Terphenyl</i> | 121 | | 70 - 130 | | | | |

Lab Sample ID: 890-3804-A-1-F MS**Matrix: Solid****Analysis Batch: 43781****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 43804**

| Analyte | Sample | | Spike | MS | MS | Unit | D | %Rec | |
|--------------------------------------|-----------|-----------|-----------|-------|----|-------|---|------|----------|
| | Result | Qualifier | | | | | | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 998 | 891.6 | | mg/Kg | | 88 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 983.2 | | mg/Kg | | 99 | 70 - 130 |
| Surrogate | MS | | MS | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 96 | | 70 - 130 | | | | | | |
| <i>o-Terphenyl</i> | 100 | | 70 - 130 | | | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
 SDG: Lea County NM

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

Lab Sample ID: 890-3804-A-1-G MSD

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43804

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----------|----|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F2 | 997 | 1139 | F2 | mg/Kg | | 113 | 70 - 130 | 24 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1082 | | mg/Kg | | 109 | 70 - 130 | 10 | 20 |
| Surrogate | %Recovery | Qualifier | | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
| 1-Chlorooctane | 98 | | | 70 - 130 | | | | | | | |
| <i>o</i> -Terphenyl | 102 | | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43792/1-A

Matrix: Solid

Analysis Batch: 43924

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 | | | 01/13/23 23:50 | 1 |

Lab Sample ID: LCS 880-43792/2-A

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|--|-------------|------------|---------------|-------|---|------|----------|
| Chloride | | 250 | 255.0 | | mg/Kg | | 102 | 90 - 110 |

Lab Sample ID: LCSD 880-43792/3-A

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|--|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Chloride | | 250 | 251.6 | | mg/Kg | | 101 | 90 - 110 | 1 | 20 |

Lab Sample ID: 890-3810-A-1-C MS

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 428 | | 250 | 673.4 | | mg/Kg | | 98 | 90 - 110 |

Lab Sample ID: 890-3810-A-1-D MSD

Matrix: Solid

Analysis Batch: 43924

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----------|
| Chloride | 428 | | 250 | 670.2 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
 SDG: Lea County NM

GC VOA**Prep Batch: 43748**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3813-1 | FS06 | Total/NA | Solid | 5035 | |
| MB 880-43748/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-43748/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-43748/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3808-A-1-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3808-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 43960

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3813-1 | FS06 | Total/NA | Solid | 8021B | 43748 |
| MB 880-43748/5-A | Method Blank | Total/NA | Solid | 8021B | 43748 |
| MB 880-43960/8 | Method Blank | Total/NA | Solid | 8021B | |
| LCS 880-43748/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 43748 |
| LCSD 880-43748/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 43748 |
| 890-3808-A-1-D MS | Matrix Spike | Total/NA | Solid | 8021B | 43748 |
| 890-3808-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 43748 |

Analysis Batch: 44182

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3813-1 | FS06 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 43781**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3813-1 | FS06 | Total/NA | Solid | 8015B NM | 43804 |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015B NM | 43804 |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 43804 |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 43804 |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 43804 |

Prep Batch: 43804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3813-1 | FS06 | Total/NA | Solid | 8015NM Prep | |
| MB 880-43804/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-43804/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-43804/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3804-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 43889

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3813-1 | FS06 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 43792**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-3813-1 | FS06 | Soluble | Solid | DI Leach | |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
 SDG: Lea County NM

HPLC/IC (Continued)**Leach Batch: 43792 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3810-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3810-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 43924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3813-1 | FS06 | Soluble | Solid | 300.0 | 43792 |
| MB 880-43792/1-A | Method Blank | Soluble | Solid | 300.0 | 43792 |
| LCS 880-43792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 43792 |
| LCSD 880-43792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 43792 |
| 890-3810-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 43792 |
| 890-3810-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 43792 |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
 SDG: Lea County NM

Client Sample ID: FS06

Date Collected: 01/06/23 10:25

Date Received: 01/10/23 09:05

Lab Sample ID: 890-3813-1

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 | | | 4.97 g | 5 mL | 43748 | 01/13/23 13:36 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43960 | 01/16/23 21:25 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 44182 | 01/17/23 14:44 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43889 | 01/13/23 12:42 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 43804 | 01/12/23 11:42 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43781 | 01/13/23 03:45 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 43792 | 01/12/23 09:21 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43924 | 01/14/23 02:01 | 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: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
SDG: Lea County NM

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum
Project/Site: Jalmat Yates Sand Unit #170

Job ID: 890-3813-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Job ID: 890-3813-1

Project/Site: Jalmat Yates Sand Unit #170

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3813-1 | FS06 | Solid | 01/06/23 10:25 | 01/10/23 09:05 | 1 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3813-1

SDG Number: Lea County NM

Login Number: 3813**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Clifton, Cloe

| 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: 890-3813-1

1

SDG Number: Lea County NM

2

Login Number: 3813**List Source:** Eurofins Midland

3

List Number: 2**List Creation:** 01/11/23 11:43 AM

4

Creator: Teel, Brianna

5

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



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/5/2023 9:38:17 AM

JOB DESCRIPTION

Jalmat Yates Sant Unit 170
SDG NUMBER 03D2057047

JOB NUMBER

890-3924-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/5/2023 9:38:17 AM

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

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Laboratory Job ID: 890-3924-1
SDG: 03D2057047

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 6 |
| Surrogate Summary | 28 | 7 |
| QC Sample Results | 30 | 8 |
| QC Association Summary | 41 | 8 |
| Lab Chronicle | 48 | 9 |
| Certification Summary | 57 | 10 |
| Method Summary | 58 | 11 |
| Sample Summary | 59 | 11 |
| Chain of Custody | 60 | 12 |
| Receipt Checklists | 63 | 13 |
| | | 14 |

Definitions/Glossary

Client: Ensolum

Job ID: 890-3924-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Job ID: 890-3924-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3924-1

Receipt

The samples were received on 1/23/2023 4:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-3924-1), FS02 (890-3924-2), FS05 (890-3924-3), FS06 (890-3924-4), FS09 (890-3924-5), FS10 (890-3924-6), FS11 (890-3924-7), FS12 (890-3924-8), FS13 (890-3924-9), FS17 (890-3924-10), FS18 (890-3924-11), FS19 (890-3924-12), FS20 (890-3924-13), FS21 (890-3924-14), FS22 (890-3924-15), FS23 (890-3924-16), FS24 (890-3924-17), FS25 (890-3924-18), FS26 (890-3924-19), FS27 (890-3924-20), FS28 (890-3924-21), FS29 (890-3924-22), FS30 (890-3924-23), FS31 (890-3924-24), FS32 (890-3924-25), FS33 (890-3924-26) and FS34 (890-3924-27).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-45146 and analytical batch 880-45131 was outside the 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: Surrogate recovery for the following sample was outside control limits: (890-3898-A-1-F MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44791 and analytical batch 880-44924 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: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Client Sample ID: FS01

Date Collected: 01/18/23 10:00

Date Received: 01/23/23 16:24

Sample Depth: 2.5'

Lab Sample ID: 890-3924-1

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 05:56 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 05:56 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 05:56 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 16:30 | 02/01/23 05:56 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 05:56 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 16:30 | 02/01/23 05:56 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 107 | | 70 - 130 | | 01/31/23 16:30 | 02/01/23 05:56 | 1 |
| 1,4-Difluorobenzene (Surr) | | 113 | | 70 - 130 | | 01/31/23 16:30 | 02/01/23 05:56 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/01/23 12:53 | 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 | | | 02/03/23 11:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 12:51 | 02/03/23 03:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 12:51 | 02/03/23 03:27 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 12:51 | 02/03/23 03:27 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 366 | | 5.02 | mg/Kg | | | 01/27/23 15:42 | 1 |

Client Sample ID: FS02

Date Collected: 01/18/23 10:10

Date Received: 01/23/23 16:24

Sample Depth: 2.5'

Lab Sample ID: 890-3924-2

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:16 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:16 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:16 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:16 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:16 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:16 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 116 | | 70 - 130 | | 01/31/23 16:30 | 02/01/23 06:16 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Client Sample ID: FS02**Lab Sample ID: 890-3924-2**

Matrix: Solid

Date Collected: 01/18/23 10:10
Date Received: 01/23/23 16:24
Sample Depth: 2.5'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 116 | | 70 - 130 | 01/31/23 16:30 | 02/01/23 06:16 | 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 | | | 02/01/23 12:53 | 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 | | | 02/03/23 11:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/03/23 03:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/03/23 03:47 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/03/23 03:47 | 1 |

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 87 | | 70 - 130 | 02/01/23 12:51 | 02/03/23 03:47 | 1 |
| o-Terphenyl | 84 | | 70 - 130 | 02/01/23 12:51 | 02/03/23 03:47 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 379 | | 4.98 | mg/Kg | | | 01/27/23 16:01 | 1 |

Client Sample ID: FS05**Lab Sample ID: 890-3924-3**

Matrix: Solid

Date Collected: 01/18/23 10:45
Date Received: 01/23/23 16:24
Sample Depth: 2.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 06:37 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 06:37 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 06:37 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 01/31/23 16:30 | 02/01/23 06:37 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 06:37 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 01/31/23 16:30 | 02/01/23 06:37 | 1 |

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | 01/31/23 16:30 | 02/01/23 06:37 | 1 |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | 01/31/23 16:30 | 02/01/23 06:37 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 02/01/23 12:53 | 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 | | | 02/03/23 11:49 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS05**Lab Sample ID: 890-3924-3**

Matrix: Solid

Date Collected: 01/18/23 10:45

Date Received: 01/23/23 16:24

Sample Depth: 2.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 12:51 | 02/03/23 04:07 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 12:51 | 02/03/23 04:07 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 12:51 | 02/03/23 04:07 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 84 | | 70 - 130 | | | 02/01/23 12:51 | 02/03/23 04:07 | 1 |
| o-Terphenyl | 83 | | 70 - 130 | | | 02/01/23 12:51 | 02/03/23 04:07 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 373 | | 5.00 | mg/Kg | | | 01/27/23 16:07 | 1 |

Client Sample ID: FS06**Lab Sample ID: 890-3924-4**

Matrix: Solid

Date Collected: 01/18/23 13:20

Date Received: 01/23/23 16:24

Sample Depth: 2.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:57 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:57 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:57 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:57 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:57 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 16:30 | 02/01/23 06:57 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | | | 01/31/23 16:30 | 02/01/23 06:57 | 1 |
| 1,4-Difluorobenzene (Surr) | 114 | | 70 - 130 | | | 01/31/23 16:30 | 02/01/23 06:57 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/01/23 12:53 | 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 | | | 02/03/23 11:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 12:51 | 02/03/23 04:27 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 12:51 | 02/03/23 04:27 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 12:51 | 02/03/23 04:27 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 02/01/23 12:51 | 02/03/23 04:27 | 1 |
| o-Terphenyl | 88 | | 70 - 130 | | | 02/01/23 12:51 | 02/03/23 04:27 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS06
 Date Collected: 01/18/23 13:20
 Date Received: 01/23/23 16:24
 Sample Depth: 2.5'

Lab Sample ID: 890-3924-4
 Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 132 | | 4.95 | mg/Kg | | | 01/27/23 16:13 | 1 |

Client Sample ID: FS09
 Date Collected: 01/18/23 13:25
 Date Received: 01/23/23 16:24
 Sample Depth: 2.5'

Lab Sample ID: 890-3924-5
 Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 | | | 01/31/23 16:30 | 02/01/23 07:17 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 02/01/23 12:53 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 54.8 | | 49.9 | mg/Kg | | | 02/03/23 11:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/03/23 04:47 | 1 |
| Diesel Range Organics (Over C10-C28) | 54.8 | | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/03/23 04:47 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/03/23 04:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 02/01/23 12:51 | 02/03/23 04:47 | 1 |
| <i>o-Terphenyl</i> | 85 | | 70 - 130 | | | 02/01/23 12:51 | 02/03/23 04:47 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 156 | | 5.01 | mg/Kg | | | 01/27/23 16:19 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Client Sample ID: FS10**Lab Sample ID: 890-3924-6**

Matrix: Solid

Date Collected: 01/18/23 13:30
Date Received: 01/23/23 16:24
Sample Depth: 2.5'

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 | 01/31/23 16:30 | 02/01/23 07:38 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 16:30 | 02/01/23 07:38 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 16:30 | 02/01/23 07:38 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 01/31/23 16:30 | 02/01/23 07:38 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 16:30 | 02/01/23 07:38 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 01/31/23 16:30 | 02/01/23 07:38 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 107 | | 70 - 130 | | 01/31/23 16:30 | 02/01/23 07:38 | 1 |
| 1,4-Difluorobenzene (Surr) | | 115 | | 70 - 130 | | 01/31/23 16:30 | 02/01/23 07:38 | 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 | | | 02/01/23 12:53 | 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 | | | 02/03/23 11:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | 02/01/23 12:51 | 02/03/23 05:07 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 12:51 | 02/03/23 05:07 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 12:51 | 02/03/23 05:07 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | 97 | | 70 - 130 | | 02/01/23 12:51 | 02/03/23 05:07 | 1 |
| o-Terphenyl | | 96 | | 70 - 130 | | 02/01/23 12:51 | 02/03/23 05:07 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 439 | | 5.01 | mg/Kg | | | 01/27/23 16:38 | 1 |

Client Sample ID: FS11**Lab Sample ID: 890-3924-7**

Matrix: Solid

Date Collected: 01/19/23 08:30
Date Received: 01/23/23 16:24
Sample Depth: 2.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 17:36 | | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 17:36 | | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 17:36 | | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | 01/31/23 14:29 | 01/31/23 17:36 | | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 17:36 | | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | 01/31/23 14:29 | 01/31/23 17:36 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 84 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 17:36 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS11
 Date Collected: 01/19/23 08:30
 Date Received: 01/23/23 16:24
 Sample Depth: 2.5'

Lab Sample ID: 890-3924-7
 Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 17:36 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 11:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 11:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 11:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 11:16 | 1 |
| o-Terphenyl | 131 | S1+ | 70 - 130 | 02/01/23 14:47 | 02/03/23 11:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 57.1 | | 4.97 | mg/Kg | | | 01/27/23 16:44 | 1 |

Client Sample ID: FS12**Lab Sample ID: 890-3924-8**

Matrix: Solid

Date Collected: 01/19/23 08:35
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 17:56 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 17:56 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 17:56 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 01/31/23 14:29 | 01/31/23 17:56 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 17:56 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 01/31/23 14:29 | 01/31/23 17:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 84 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 17:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 17:56 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS12**Lab Sample ID: 890-3924-8**

Matrix: Solid

Date Collected: 01/19/23 08:35

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 12:22 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 12:22 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 12:22 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 109 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 12:22 | 1 |
| o-Terphenyl | 116 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 12:22 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 14.1 | | 4.99 | mg/Kg | | | 01/27/23 16:50 | 1 |

Client Sample ID: FS13**Lab Sample ID: 890-3924-9**

Matrix: Solid

Date Collected: 01/19/23 08:40

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:17 | | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:17 | | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:17 | | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:17 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:17 | | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:17 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 18:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 18:17 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 02/01/23 12:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 92.5 | | 50.0 | mg/Kg | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 12:45 | | 1 |
| Diesel Range Organics (Over C10-C28) | 68.7 | | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 12:45 | | 1 |
| OII Range Organics (Over C28-C36) | 23.8 | | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 12:45 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 93 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 12:45 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 12:45 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS13**Lab Sample ID: 890-3924-9**

Matrix: Solid

Date Collected: 01/19/23 08:40
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 127 | | 5.00 | mg/Kg | | | 01/27/23 16:56 | 1 |

Client Sample ID: FS17**Lab Sample ID: 890-3924-10**

Matrix: Solid

Date Collected: 01/19/23 09:10
 Date Received: 01/23/23 16:24
 Sample Depth: 2.5'

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 | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 18:37 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 13:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 13:06 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 13:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 112 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 13:06 | 1 |
| <i>o</i> -Terphenyl | 122 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 13:06 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 345 | | 5.00 | mg/Kg | | | 01/27/23 17:02 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS18

Date Collected: 01/19/23 09:15

Date Received: 01/23/23 16:24

Sample Depth: 2.5'

Lab Sample ID: 890-3924-11

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:58 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:58 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:58 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:58 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:58 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 01/31/23 14:29 | 01/31/23 18:58 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 103 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 18:58 | 1 |
| 1,4-Difluorobenzene (Surr) | | 83 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 18:58 | 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 | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|----------------|----------------|----------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 13:28 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 13:28 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 13:28 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 393 | F1 | 4.97 | mg/Kg | | | 01/27/23 17:08 | 1 |

Client Sample ID: FS19

Date Collected: 01/19/23 09:20

Date Received: 01/23/23 16:24

Sample Depth: 2'

Lab Sample ID: 890-3924-12

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:18 | | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:18 | | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:18 | | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:18 | | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:18 | | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:18 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 110 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 19:18 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS19

Date Collected: 01/19/23 09:20
 Date Received: 01/23/23 16:24
 Sample Depth: 2'

Lab Sample ID: 890-3924-12

Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 19:18 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 13:51 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 13:51 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 13:51 | 1 |

Surrogate

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 13:51 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 13:51 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 7.31 | | 5.05 | mg/Kg | | | 01/27/23 17:27 | 1 |

Client Sample ID: FS20

Date Collected: 01/19/23 09:25
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-13

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 19:39 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 19:39 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 19:39 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 01/31/23 14:29 | 01/31/23 19:39 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 19:39 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 01/31/23 14:29 | 01/31/23 19:39 | 1 |

Surrogate

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 19:39 | 1 |
| 1,4-Difluorobenzene (Surr) | 79 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 19:39 | 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 | | | 02/01/23 12:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 76.3 | | 49.9 | mg/Kg | | | 02/03/23 16:54 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Client Sample ID: FS20

Date Collected: 01/19/23 09:25

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

Lab Sample ID: 890-3924-13

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 | 02/01/23 14:47 | 02/03/23 14:12 | | 1 |
| Diesel Range Organics (Over C10-C28) | 76.3 | | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 14:12 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 14:12 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 52 | S1- | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 14:12 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 14:12 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 41.2 | | 5.00 | mg/Kg | | | 01/27/23 17:33 | 1 |

Client Sample ID: FS21

Date Collected: 01/19/23 11:00

Date Received: 01/23/23 16:24

Sample Depth: 2.5'

Lab Sample ID: 890-3924-14

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:59 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:59 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:59 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:59 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:59 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 14:29 | 01/31/23 19:59 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 19:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 19:59 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|--------------|-----------------------|-----------------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 14:34 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 14:34 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 14:34 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 93 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 14:34 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 14:34 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS21

Date Collected: 01/19/23 11:00
 Date Received: 01/23/23 16:24
 Sample Depth: 2.5'

Lab Sample ID: 890-3924-14

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 7.86 | | 4.98 | mg/Kg | | | 01/27/23 17:51 | 1 |

Client Sample ID: FS22

Date Collected: 01/19/23 11:05
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-15

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 20:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 20:20 | 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 | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 14:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 14:55 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 14:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 97 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 14:55 | 1 |
| <i>o</i> -Terphenyl | 110 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 14:55 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 474 | | 5.02 | mg/Kg | | | 01/27/23 17:58 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS23
 Date Collected: 01/19/23 11:25
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-16
 Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:29 | 01/31/23 20:40 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:29 | 01/31/23 20:40 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:29 | 01/31/23 20:40 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 01/31/23 14:29 | 01/31/23 20:40 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:29 | 01/31/23 20:40 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 01/31/23 14:29 | 01/31/23 20:40 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 103 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 20:40 | 1 |
| 1,4-Difluorobenzene (Surr) | | 82 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 20:40 | 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 | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|-------|----------------|----------------|----------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 15:16 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 15:16 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 15:16 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | 109 | | 70 - 130 | | 02/01/23 14:47 | 02/03/23 15:16 | | 1 |
| <i>o</i> -Terphenyl | 117 | | 70 - 130 | | 02/01/23 14:47 | 02/03/23 15:16 | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 12.3 | | 4.98 | mg/Kg | | | 01/27/23 18:04 | 1 |

Client Sample ID: FS24

Date Collected: 01/19/23 11:30
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-17
 Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 22:03 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 22:03 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 22:03 | | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | 01/31/23 14:29 | 01/31/23 22:03 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:29 | 01/31/23 22:03 | | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | 01/31/23 14:29 | 01/31/23 22:03 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 108 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 22:03 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS24**Lab Sample ID: 890-3924-17**

Date Collected: 01/19/23 11:30
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 22:03 | 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 | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:00 | 1 |

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 108 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 16:00 | 1 |
| o-Terphenyl | 115 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 16:00 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.96 | U | 4.96 | mg/Kg | | | 01/27/23 18:10 | 1 |

Client Sample ID: FS25**Lab Sample ID: 890-3924-18**

Date Collected: 01/19/23 11:35
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:24 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:24 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:24 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:24 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:24 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:24 | 1 |

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 80 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 22:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 22:24 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/03/23 16:54 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS25**Lab Sample ID: 890-3924-18**

Matrix: Solid

Date Collected: 01/19/23 11:35
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:22 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 94 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 16:22 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 16:22 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.98 | U | 4.98 | mg/Kg | | | 01/27/23 18:16 | 1 |

Client Sample ID: FS26**Lab Sample ID: 890-3924-19**

Matrix: Solid

Date Collected: 01/19/23 12:00
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 22:44 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:43 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 16:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 92 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 16:43 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 16:43 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS26

Date Collected: 01/19/23 12:00
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-19

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 59.2 | | 4.99 | mg/Kg | | | 01/27/23 18:22 | 1 |

Client Sample ID: FS27

Date Collected: 01/19/23 12:05
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-20

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 23:05 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 17:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 17:05 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 17:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 96 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 17:05 | 1 |
| <i>o</i> -Terphenyl | 108 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 17:05 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 13.2 | | 4.96 | mg/Kg | | | 01/27/23 19:18 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS28

Date Collected: 01/19/23 12:10

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

Lab Sample ID: 890-3924-21

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:26 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:26 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:26 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:26 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:26 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:26 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 81 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 23:26 | 1 |
| 1,4-Difluorobenzene (Surr) | | 97 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 23:26 | 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 | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|----------------|----------------|----------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 17:26 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 17:26 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 14:47 | 02/03/23 17:26 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 99.6 | | 5.01 | mg/Kg | | | 01/27/23 19:36 | 1 |

Client Sample ID: FS29

Date Collected: 01/19/23 12:30

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

Lab Sample ID: 890-3924-22

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:46 | | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:46 | | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:46 | | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:46 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:46 | | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | 01/31/23 14:29 | 01/31/23 23:46 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 81 | | 70 - 130 | | 01/31/23 14:29 | 01/31/23 23:46 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Client Sample ID: FS29**Lab Sample ID: 890-3924-22**

Matrix: Solid

Date Collected: 01/19/23 12:30
Date Received: 01/23/23 16:24
Sample Depth: 0.5'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 01/31/23 14:29 | 01/31/23 23:46 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 17:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 17:48 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 17:48 | 1 |

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 17:48 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | 02/01/23 14:47 | 02/03/23 17:48 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.05 | U | 5.05 | mg/Kg | | | 01/27/23 19:43 | 1 |

Client Sample ID: FS30**Lab Sample ID: 890-3924-23**

Matrix: Solid

Date Collected: 01/19/23 12:35
Date Received: 01/23/23 16:24
Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:07 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:07 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:07 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:07 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:07 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:07 | 1 |

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | 01/31/23 14:29 | 02/01/23 00:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | 01/31/23 14:29 | 02/01/23 00:07 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS30

Date Collected: 01/19/23 12:35

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

Lab Sample ID: 890-3924-23

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 | 02/01/23 14:47 | 02/03/23 18:09 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 18:09 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 18:09 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 92 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 18:09 | 1 |
| o-Terphenyl | 103 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 18:09 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 01/27/23 19:49 | 1 |

Client Sample ID: FS31

Date Collected: 01/19/23 12:40

Date Received: 01/23/23 16:24

Sample Depth: 0.5'

Lab Sample ID: 890-3924-24

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 02/01/23 00:27 | | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 02/01/23 00:27 | | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 02/01/23 00:27 | | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | 01/31/23 14:29 | 02/01/23 00:27 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:29 | 02/01/23 00:27 | | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | 01/31/23 14:29 | 02/01/23 00:27 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 81 | | 70 - 130 | | | 01/31/23 14:29 | 02/01/23 00:27 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | 01/31/23 14:29 | 02/01/23 00:27 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 18:31 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 18:31 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 18:31 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 90 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 18:31 | 1 |
| o-Terphenyl | 100 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 18:31 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Client Sample ID: FS31

Date Collected: 01/19/23 12:40
Date Received: 01/23/23 16:24
Sample Depth: 0.5'

Lab Sample ID: 890-3924-24

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 71.7 | | 4.97 | mg/Kg | | | 01/27/23 19:55 | 1 |

Client Sample ID: FS32

Date Collected: 01/19/23 13:40
Date Received: 01/23/23 16:24
Sample Depth: 2'

Lab Sample ID: 890-3924-25

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | 01/31/23 14:29 | 02/01/23 00:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | | | 01/31/23 14:29 | 02/01/23 00:48 | 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 | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 18:54 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 18:54 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 14:47 | 02/03/23 18:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 18:54 | 1 |
| <i>o</i> -Terphenyl | 97 | | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 18:54 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5.05 | | 4.98 | mg/Kg | | | 01/27/23 20:13 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS33
 Date Collected: 01/19/23 13:45
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-26
 Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 02/01/23 01:08 | | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 02/01/23 01:08 | | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 02/01/23 01:08 | | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | 01/31/23 14:29 | 02/01/23 01:08 | | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:29 | 02/01/23 01:08 | | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | 01/31/23 14:29 | 02/01/23 01:08 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 85 | | 70 - 130 | | 01/31/23 14:29 | 02/01/23 01:08 | 1 |
| 1,4-Difluorobenzene (Surr) | | 96 | | 70 - 130 | | 01/31/23 14:29 | 02/01/23 01:08 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/05/23 09:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 19:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 19:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/01/23 14:47 | 02/03/23 19:16 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | 85 | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 19:16 | 1 |
| <i>o</i> -Terphenyl | | 96 | 70 - 130 | | | 02/01/23 14:47 | 02/03/23 19:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.97 | U | 4.97 | mg/Kg | | | 01/27/23 20:20 | 1 |

Client Sample ID: FS34

Date Collected: 01/19/23 13:50
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

Lab Sample ID: 890-3924-27
 Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:43 | 02/01/23 11:45 | | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:43 | 02/01/23 11:45 | | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:43 | 02/01/23 11:45 | | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | 01/31/23 14:43 | 02/01/23 11:45 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 01/31/23 14:43 | 02/01/23 11:45 | | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | 01/31/23 14:43 | 02/01/23 11:45 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 81 | | 70 - 130 | | 01/31/23 14:43 | 02/01/23 11:45 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS34**Lab Sample ID: 890-3924-27**

Matrix: Solid

Date Collected: 01/19/23 13:50
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 01/31/23 14:43 | 02/01/23 11:45 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/04/23 09:40 | 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 | | 02/01/23 15:22 | 02/03/23 17:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 17:15 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 17:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85 | | 70 - 130 | 02/01/23 15:22 | 02/03/23 17:15 | 1 |
| <i>o</i> -Terphenyl | 89 | | 70 - 130 | 02/01/23 15:22 | 02/03/23 17:15 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.99 | U | 4.99 | mg/Kg | | | 01/27/23 20:26 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3924-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|------------------------|--|-------------------|--|
| | | BFB1 (70-130) | DFBZ1 (70-130) | |
| 890-3916-A-1-C MS | Matrix Spike | 100 | 109 | |
| 890-3916-A-1-D MSD | Matrix Spike Duplicate | 104 | 110 | |
| 890-3924-1 | FS01 | 107 | 113 | |
| 890-3924-2 | FS02 | 116 | 116 | |
| 890-3924-3 | FS05 | 117 | 111 | |
| 890-3924-4 | FS06 | 111 | 114 | |
| 890-3924-5 | FS09 | 109 | 118 | |
| 890-3924-6 | FS10 | 107 | 115 | |
| 890-3924-7 | FS11 | 84 | 95 | |
| 890-3924-7 MS | FS11 | 112 | 114 | |
| 890-3924-7 MSD | FS11 | 110 | 86 | |
| 890-3924-8 | FS12 | 84 | 92 | |
| 890-3924-9 | FS13 | 88 | 103 | |
| 890-3924-10 | FS17 | 111 | 85 | |
| 890-3924-11 | FS18 | 103 | 83 | |
| 890-3924-12 | FS19 | 110 | 86 | |
| 890-3924-13 | FS20 | 109 | 79 | |
| 890-3924-14 | FS21 | 91 | 90 | |
| 890-3924-15 | FS22 | 101 | 83 | |
| 890-3924-16 | FS23 | 103 | 82 | |
| 890-3924-17 | FS24 | 108 | 82 | |
| 890-3924-18 | FS25 | 80 | 97 | |
| 890-3924-19 | FS26 | 105 | 78 | |
| 890-3924-20 | FS27 | 89 | 89 | |
| 890-3924-21 | FS28 | 81 | 97 | |
| 890-3924-22 | FS29 | 81 | 92 | |
| 890-3924-23 | FS30 | 90 | 89 | |
| 890-3924-24 | FS31 | 81 | 93 | |
| 890-3924-25 | FS32 | 108 | 88 | |
| 890-3924-26 | FS33 | 85 | 96 | |
| 890-3924-27 | FS34 | 81 | 95 | |
| LCS 880-45146/1-A | Lab Control Sample | 108 | 107 | |
| LCS 880-45149/1-A | Lab Control Sample | 101 | 108 | |
| LCS 880-45157/1-A | Lab Control Sample | 97 | 112 | |
| LCSD 880-45146/2-A | Lab Control Sample Dup | 104 | 108 | |
| LCSD 880-45149/2-A | Lab Control Sample Dup | 103 | 104 | |
| LCSD 880-45157/2-A | Lab Control Sample Dup | 103 | 112 | |
| MB 880-45146/5-A | Method Blank | 68 S1- | 92 | |
| MB 880-45147/5-A | Method Blank | 102 | 105 | |
| MB 880-45149/5-A | Method Blank | 74 | 91 | |
| MB 880-45157/5-A | Method Blank | 106 | 110 | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3924-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 890-3898-A-1-F MS | Matrix Spike | 81 | 69 S1- | |
| 890-3898-A-1-G MSD | Matrix Spike Duplicate | 86 | 70 | |
| 890-3911-A-1-F MS | Matrix Spike | 84 | 75 | |
| 890-3911-A-1-G MSD | Matrix Spike Duplicate | 87 | 75 | |
| 890-3924-1 | FS01 | 90 | 87 | |
| 890-3924-2 | FS02 | 87 | 84 | |
| 890-3924-3 | FS05 | 84 | 83 | |
| 890-3924-4 | FS06 | 91 | 88 | |
| 890-3924-5 | FS09 | 89 | 85 | |
| 890-3924-6 | FS10 | 97 | 96 | |
| 890-3924-7 | FS11 | 121 | 131 S1+ | |
| 890-3924-7 MS | FS11 | 105 | 105 | |
| 890-3924-7 MSD | FS11 | 108 | 107 | |
| 890-3924-8 | FS12 | 109 | 116 | |
| 890-3924-9 | FS13 | 93 | 105 | |
| 890-3924-10 | FS17 | 112 | 122 | |
| 890-3924-11 | FS18 | 94 | 105 | |
| 890-3924-12 | FS19 | 94 | 106 | |
| 890-3924-13 | FS20 | 52 S1- | 112 | |
| 890-3924-14 | FS21 | 93 | 106 | |
| 890-3924-15 | FS22 | 97 | 110 | |
| 890-3924-16 | FS23 | 109 | 117 | |
| 890-3924-17 | FS24 | 108 | 115 | |
| 890-3924-18 | FS25 | 94 | 106 | |
| 890-3924-19 | FS26 | 92 | 104 | |
| 890-3924-20 | FS27 | 96 | 108 | |
| 890-3924-21 | FS28 | 111 | 118 | |
| 890-3924-22 | FS29 | 109 | 118 | |
| 890-3924-23 | FS30 | 92 | 103 | |
| 890-3924-24 | FS31 | 90 | 100 | |
| 890-3924-25 | FS32 | 89 | 97 | |
| 890-3924-26 | FS33 | 85 | 96 | |
| 890-3924-27 | FS34 | 85 | 89 | |
| LCS 880-45202/2-A | Lab Control Sample | 87 | 78 | |
| LCS 880-45213/2-A | Lab Control Sample | 91 | 93 | |
| LCS 880-45214/2-A | Lab Control Sample | 87 | 84 | |
| LCSD 880-45202/3-A | Lab Control Sample Dup | 89 | 79 | |
| LCSD 880-45213/3-A | Lab Control Sample Dup | 90 | 94 | |
| LCSD 880-45214/3-A | Lab Control Sample Dup | 87 | 84 | |
| MB 880-45202/1-A | Method Blank | 95 | 94 | |
| MB 880-45213/1-A | Method Blank | 123 | 139 S1+ | |
| MB 880-45214/1-A | Method Blank | 96 | 102 | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-45146/5-A****Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45146**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 68 | S1- | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | | | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |

Lab Sample ID: LCS 880-45146/1-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45146**

| Analyte | Spikes | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|--|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1030 | | mg/Kg | 103 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.09513 | | mg/Kg | 95 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.09787 | | mg/Kg | 98 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2053 | | mg/Kg | 103 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1016 | | mg/Kg | 102 | 70 - 130 | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | | | | | |

Lab Sample ID: LCSD 880-45146/2-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45146**

| Analyte | Spikes | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.1024 | | mg/Kg | 102 | 70 - 130 | | | | 1 | 35 |
| Toluene | 0.100 | 0.08982 | | mg/Kg | 90 | 70 - 130 | | | | 6 | 35 |
| Ethylbenzene | 0.100 | 0.09116 | | mg/Kg | 91 | 70 - 130 | | | | 7 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1915 | | mg/Kg | 96 | 70 - 130 | | | | 7 | 35 |
| o-Xylene | 0.100 | 0.09568 | | mg/Kg | 96 | 70 - 130 | | | | 6 | 35 |
| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-3924-7 MS**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: FS11****Prep Type: Total/NA****Prep Batch: 45146**

| Analyte | Sample | Sample | Spikes | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|--------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.101 | 0.1100 | | mg/Kg | 109 | 70 - 130 | | | |
| Toluene | <0.00202 | U | 0.101 | 0.1029 | | mg/Kg | 102 | 70 - 130 | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-3924-7 MS****Matrix: Solid****Analysis Batch: 45131**

Client Sample ID: FS11
Prep Type: Total/NA
Prep Batch: 45146

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00202 | U | 0.101 | 0.1076 | | mg/Kg | | 107 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.202 | 0.2281 | | mg/Kg | | 113 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.101 | 0.1105 | | mg/Kg | | 110 | 70 - 130 |

| Surrogate | MS | MS | %Recovery | Qualifier | Limits |
|-----------------------------|----------|-----------|-----------|-----------|----------|
| | Recovery | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 114 | | | | 70 - 130 |

Lab Sample ID: 890-3924-7 MSD**Matrix: Solid****Analysis Batch: 45131**

Client Sample ID: FS11
Prep Type: Total/NA
Prep Batch: 45146

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00202 | U | 0.0990 | 0.09093 | | mg/Kg | | 92 | 70 - 130 |
| Toluene | <0.00202 | U | 0.0990 | 0.08781 | | mg/Kg | | 89 | 70 - 130 |
| Ethylbenzene | <0.00202 | U | 0.0990 | 0.08939 | | mg/Kg | | 90 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.198 | 0.1870 | | mg/Kg | | 94 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0990 | 0.09094 | | mg/Kg | | 92 | 70 - 130 |

| Surrogate | MSD | MSD | %Recovery | Qualifier | Limits |
|-----------------------------|----------|-----------|-----------|-----------|----------|
| | Recovery | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 86 | | | | 70 - 130 |

Lab Sample ID: MB 880-45147/5-A**Matrix: Solid****Analysis Batch: 45129**

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45147

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:36 | 01/31/23 17:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:36 | 01/31/23 17:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:36 | 01/31/23 17:29 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | 0.00400 | mg/Kg | | 01/31/23 14:36 | 01/31/23 17:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:36 | 01/31/23 17:29 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | 0.00400 | mg/Kg | | 01/31/23 14:36 | 01/31/23 17:29 | 1 |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|----------|----------------|----------------|---------|
| | Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | | | 70 - 130 | 01/31/23 14:36 | 01/31/23 17:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | | | 70 - 130 | 01/31/23 14:36 | 01/31/23 17:29 | 1 |

Lab Sample ID: MB 880-45149/5-A**Matrix: Solid****Analysis Batch: 45131**

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45149

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | 0.00400 | mg/Kg | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: MB 880-45149/5-A****Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45149**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |
| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | 01/31/23 14:43 | 02/01/23 03:51 | 1 | | |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | 01/31/23 14:43 | 02/01/23 03:51 | 1 | | |

Lab Sample ID: LCS 880-45149/1-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45149**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits | |
|-----------------------------|-----------|-----------|-----------|-------|---|------|----------|--|
| | Added | Result | Qualifier | | | %Rec | | |
| Benzene | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | |
| Toluene | 0.100 | 0.09150 | | mg/Kg | | 92 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09043 | | mg/Kg | | 90 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1882 | | mg/Kg | | 94 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09431 | | mg/Kg | | 94 | 70 - 130 | |
| Surrogate | LCS | LCS | Limits | | | | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-45149/2-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45149**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | RPD | Limit |
|-----------------------------|-----------|-----------|-----------|-------|---|------|----------|-------|
| | Added | Result | Qualifier | | | %Rec | | |
| Benzene | 0.100 | 0.1062 | | mg/Kg | | 106 | 70 - 130 | 2 |
| Toluene | 0.100 | 0.09716 | | mg/Kg | | 97 | 70 - 130 | 6 |
| Ethylbenzene | 0.100 | 0.09608 | | mg/Kg | | 96 | 70 - 130 | 6 |
| m-Xylene & p-Xylene | 0.200 | 0.2004 | | mg/Kg | | 100 | 70 - 130 | 6 |
| o-Xylene | 0.100 | 0.1003 | | mg/Kg | | 100 | 70 - 130 | 6 |
| Surrogate | LCSD | LCSD | Limits | | | | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | | | |

Lab Sample ID: MB 880-45157/5-A**Matrix: Solid****Analysis Batch: 45129****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45157**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 16:30 | 02/01/23 05:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 16:30 | 02/01/23 05:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 16:30 | 02/01/23 05:07 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 16:30 | 02/01/23 05:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 16:30 | 02/01/23 05:07 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/31/23 16:30 | 02/01/23 05:07 | 1 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

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

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surf) | | 106 | | | 70 - 130 | 01/31/23 16:30 | 02/01/23 05:07 | 1 |
| 1,4-Difluorobenzene (Surr) | | 110 | | | 70 - 130 | 01/31/23 16:30 | 02/01/23 05:07 | 1 |

Lab Sample ID: LCS 880-45157/1-A**Matrix: Solid****Analysis Batch: 45129****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45157**

| Analyst | Spike | LCS | | %Rec | | | | |
|---------------------|--------------|---------------|------------------|-------------|----------|-------------|---------------|--|
| | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1016 | | mg/Kg | | 102 | 70 - 130 | |
| Toluene | 0.100 | 0.09370 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09046 | | mg/Kg | | 90 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1882 | | mg/Kg | | 94 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09035 | | mg/Kg | | 90 | 70 - 130 | |

| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits |
|-----------------------------|------------|------------|------------------|------------------|---------------|
| 4-Bromofluorobenzene (Surf) | 97 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | | |

Lab Sample ID: LCSD 880-45157/2-A**Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45157**

| Analyst | Spike | LCSD | | %Rec | RPD | | | | |
|---------------------|--------------|---------------|------------------|-------------|------------|-------------|---------------|------------|--------------|
| | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1032 | | mg/Kg | | 103 | 70 - 130 | 2 | 35 |
| Toluene | 0.100 | 0.09625 | | mg/Kg | | 96 | 70 - 130 | 3 | 35 |
| Ethylbenzene | 0.100 | 0.09512 | | mg/Kg | | 95 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2003 | | mg/Kg | | 100 | 70 - 130 | 6 | 35 |
| o-Xylene | 0.100 | 0.09750 | | mg/Kg | | 98 | 70 - 130 | 8 | 35 |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits |
|-----------------------------|-------------|-------------|------------------|------------------|---------------|
| 4-Bromofluorobenzene (Surf) | 103 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | | |

Lab Sample ID: 890-3916-A-1-C MS**Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 45157**

| Analyst | Sample | Sample | Spike | MS | | %Rec | | | |
|---------------------|---------------|------------------|--------------|---------------|------------------|-------------|----------|-------------|---------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Benzene | <0.00202 | U | 0.0996 | 0.1052 | | mg/Kg | | 106 | 70 - 130 |
| Toluene | <0.00202 | U | 0.0996 | 0.09662 | | mg/Kg | | 97 | 70 - 130 |
| Ethylbenzene | <0.00202 | U | 0.0996 | 0.09350 | | mg/Kg | | 94 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.199 | 0.1944 | | mg/Kg | | 98 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0996 | 0.09358 | | mg/Kg | | 94 | 70 - 130 |

| Surrogate | MS | MS | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|------------------|------------------|---------------|
| 4-Bromofluorobenzene (Surf) | 100 | | 70 - 130 | | |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-3916-A-1-D MSD****Matrix: Solid****Analysis Batch: 45129****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 45157**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | RPD Limit |
|-----------------------------|----------|-----------|--------|----------|-----------|-------|---|------|----------|-----|-----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.0990 | 0.1041 | | mg/Kg | | 105 | 70 - 130 | 1 | 35 |
| Toluene | <0.00202 | U | 0.0990 | 0.09728 | | mg/Kg | | 98 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0990 | 0.09370 | | mg/Kg | | 95 | 70 - 130 | 0 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.198 | 0.1958 | | mg/Kg | | 99 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00202 | U | 0.0990 | 0.09393 | | mg/Kg | | 95 | 70 - 130 | 0 | 35 |
| Surrogate | | | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 110 | | | 70 - 130 | | | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-45202/1-A****Matrix: Solid****Analysis Batch: 45222****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45202**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
|--------------------------------------|--------|-----------|----------|-------|---|----------------|----------------|---------|--|--|--|
| | Result | Qualifier | | | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/02/23 20:43 | 1 | | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/02/23 20:43 | 1 | | | |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 12:51 | 02/02/23 20:43 | 1 | | | |
| Surrogate | | | | | | | | | | | |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 02/01/23 12:51 | 02/02/23 20:43 | 1 | | | |
| o-Terphenyl | 94 | | 70 - 130 | | | 02/01/23 12:51 | 02/02/23 20:43 | 1 | | | |

Lab Sample ID: LCS 880-45202/2-A**Matrix: Solid****Analysis Batch: 45222****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45202**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits | | | | |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|--|--|--|--|
| | Added | Result | Qualifier | | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 777.2 | | mg/Kg | | 78 | 70 - 130 | | | | |
| Diesel Range Organics (Over C10-C28) | 999 | 928.8 | | mg/Kg | | 93 | 70 - 130 | | | | |
| Surrogate | | | | | | | | | | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 78 | | 70 - 130 | | | | | | | | |

Lab Sample ID: LCSD 880-45202/3-A**Matrix: Solid****Analysis Batch: 45222****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45202**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | RPD Limit |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|-----|-----------|
| | Added | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 761.0 | | mg/Kg | | 76 | 70 - 130 | 2 | 20 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

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

Lab Sample ID: LCSD 880-45202/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 45222

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD |
|--------------------------------------|-------------|-------------|----------------|-------|----|----------|-----|
| Diesel Range Organics (Over C10-C28) | 999 | 903.5 | | mg/Kg | 90 | 70 - 130 | 3 |
| | | | | | | | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|----------------|----------------|----------------|-------------|
| 1-Chlorooctane | 89 | | 70 - 130 |
| o-Terphenyl | 79 | | 70 - 130 |

Lab Sample ID: 890-3898-A-1-F MS

Matrix: Solid

Analysis Batch: 45222

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45202

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 852.2 | | mg/Kg | 82 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 61.5 | | 1000 | 839.9 | | mg/Kg | 78 | 70 - 130 |
| | | | | | | | | |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|----------------|--------------|--------------|-----------|
| 1-Chlorooctane | 81 | | 70 - 130 |
| o-Terphenyl | 69 | S1- | 70 - 130 |

Lab Sample ID: 890-3898-A-1-G MSD

Matrix: Solid

Analysis Batch: 45222

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45202

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|----|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 868.7 | | mg/Kg | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 61.5 | | 998 | 856.1 | | mg/Kg | 80 | 70 - 130 |
| | | | | | | | | |

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

Lab Sample ID: MB 880-45213/1-A

Matrix: Solid

Analysis Batch: 45301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45213

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|----------------|----------------|----------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 08:32 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 08:32 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 14:47 | 02/03/23 08:32 | | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits |
|----------------|--------------|--------------|-----------|
| 1-Chlorooctane | 123 | | 70 - 130 |
| o-Terphenyl | 139 | S1+ | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-45213/2-A****Matrix: Solid****Analysis Batch: 45301****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45213**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 1004 | | mg/Kg | | 100 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 999 | 987.9 | | mg/Kg | | 99 | 70 - 130 |
| Surrogate | | | | | | | |
| LCS LCS %Recovery Qualifier Limits | | | | | | | |
| 1-Chlorooctane | 91 | | 70 - 130 | | | | |
| o-Terphenyl | 93 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-45213/3-A**Matrix: Solid****Analysis Batch: 45301****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45213**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 945.3 | | mg/Kg | | 95 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | 999 | 980.0 | | mg/Kg | | 98 | 70 - 130 | 1 | 20 |
| Surrogate | | | | | | | | | |
| LCSD LCSD %Recovery Qualifier Limits | | | | | | | | | |
| 1-Chlorooctane | 90 | | 70 - 130 | | | | | | |
| o-Terphenyl | 94 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-3924-7 MS**Matrix: Solid****Analysis Batch: 45301****Client Sample ID: FS11****Prep Type: Total/NA****Prep Batch: 45213**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 923.2 | | mg/Kg | | 89 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 1000 | 1042 | | mg/Kg | | 100 | 70 - 130 |
| Surrogate | | | | | | | | | |
| MS MS %Recovery Qualifier Limits | | | | | | | | | |
| 1-Chlorooctane | 105 | | 70 - 130 | | | | | | |
| o-Terphenyl | 105 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-3924-7 MSD**Matrix: Solid****Analysis Batch: 45301****Client Sample ID: FS11****Prep Type: Total/NA****Prep Batch: 45213**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
|---|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----------|----|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 937.3 | | mg/Kg | | 90 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 1075 | | mg/Kg | | 103 | 70 - 130 | 3 | 20 |
| Surrogate | | | | | | | | | | | |
| MSD MSD %Recovery Qualifier Limits | | | | | | | | | | | |
| 1-Chlorooctane | 108 | | 70 - 130 | | | | | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

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

Lab Sample ID: 890-3924-7 MSD

Matrix: Solid

Analysis Batch: 45301

Client Sample ID: FS11
Prep Type: Total/NA
Prep Batch: 45213

| Surrogate | MSD | MSD | %Recovery | Qualifier | Limits |
|-------------|-----|-----|-----------|-----------|----------|
| o-Terphenyl | | | 107 | | 70 - 130 |

Lab Sample ID: MB 880-45214/1-A

Matrix: Solid

Analysis Batch: 45303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45214

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-------|----|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | | | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | | | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | | | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 96 | | | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| o-Terphenyl | 102 | | | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |

Lab Sample ID: LCS 880-45214/2-A

Matrix: Solid

Analysis Batch: 45303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45214

| Analyte | Spike | LCS | | LCS | | %Rec | | |
|--------------------------------------|-------|--------|-----------|-----------|----------|------|----------|--|
| | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 861.4 | | mg/Kg | | 86 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 999 | 983.6 | | mg/Kg | | 98 | 70 - 130 | |
| Surrogate | | | | | | | | |
| | LCS | LCS | %Recovery | Qualifier | Limits | | | |
| 1-Chlorooctane | 87 | | | | 70 - 130 | | | |
| o-Terphenyl | 84 | | | | 70 - 130 | | | |

Lab Sample ID: LCSD 880-45214/3-A

Matrix: Solid

Analysis Batch: 45303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45214

| Analyte | Spike | LCSD | | LCSD | | %Rec | | | |
|--------------------------------------|-------|--------|-----------|-----------|----------|------|----------|-----|-------|
| | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 830.8 | | mg/Kg | | 83 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | 999 | 938.1 | | mg/Kg | | 94 | 70 - 130 | 5 | 20 |
| Surrogate | | | | | | | | | |
| | LCSD | LCSD | %Recovery | Qualifier | Limits | | | | |
| 1-Chlorooctane | 87 | | | | 70 - 130 | | | | |
| o-Terphenyl | 84 | | | | 70 - 130 | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

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

| Lab Sample ID: 890-3911-A-1-F MS | Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 45214 | | | | | | | | | | | | | | | | | | | |
|--|---|------------------|-------------|-----------|--------------|-------|---|------|----------|--|--|--|--|--|--|--|--|--|--|--|
| Matrix: Solid Analysis Batch: 45303 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | | | | | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 814.9 | | mg/Kg | | 78 | 70 - 130 | | | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 1000 | 956.9 | | mg/Kg | | 94 | 70 - 130 | | | | | | | | | | | |
| Surrogate | MS %Recovery | MS Qualifier | MS Limits | | | | | | | | | | | | | | | | | |
| 1-Chlorooctane | 84 | | 70 - 130 | | | | | | | | | | | | | | | | | |
| o-Terphenyl | 75 | | 70 - 130 | | | | | | | | | | | | | | | | | |

| Lab Sample ID: 890-3911-A-1-G MSD | Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 45214 | | | | | | | | | | | | | | | | | | | |
|--|---|------------------|-------------|------------|---------------|-------|---|------|----------|-----|--|--|--|--|--|--|--|--|--|--|
| Matrix: Solid Analysis Batch: 45303 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | | | | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 840.6 | | mg/Kg | | 81 | 70 - 130 | 3 | | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 972.0 | | mg/Kg | | 96 | 70 - 130 | 2 | | | | | | | | | | |
| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits | | | | | | | | | | | | | | | | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | | | | | | | | | | | | | | |
| o-Terphenyl | 75 | | 70 - 130 | | | | | | | | | | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

| Lab Sample ID: MB 880-44791/1-A | Client Sample ID: Method Blank Prep Type: Soluble | | | | | | | | | | | | | | | | | | | |
|--|--|--------------|------|--|-------|---|----------|----------------|---------|---|--|--|--|--|--|--|--|--|--|--|
| Matrix: Solid Analysis Batch: 44924 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac | | | | | | | | | | | |
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 01/27/23 15:24 | | 1 | | | | | | | | | | |

| Lab Sample ID: LCS 880-44791/2-A | Client Sample ID: Lab Control Sample Prep Type: Soluble | | | | | | | | | | | | | | | | | | | |
|--|--|------------|---------------|-------|---|------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Matrix: Solid Analysis Batch: 44924 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | | | | | | | | | | | | | |
| Chloride | 250 | 262.3 | | mg/Kg | | 105 | 90 - 110 | | | | | | | | | | | | | |

| Lab Sample ID: LCSD 880-44791/3-A | Client Sample ID: Lab Control Sample Dup Prep Type: Soluble | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|----------------|-------|---|------|----------|-----|-------|--|--|--|--|--|--|--|--|--|--|--|
| Matrix: Solid Analysis Batch: 44924 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit | | | | | | | | | | | |
| Chloride | 250 | 271.7 | | mg/Kg | | 109 | 90 - 110 | 4 | 20 | | | | | | | | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: 890-3924-1 MS****Matrix: Solid****Analysis Batch: 44924**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|-----|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Chloride | 366 | | 251 | 622.4 | | mg/Kg | 102 | 90 - 110 | |

Lab Sample ID: 890-3924-1 MSD**Matrix: Solid****Analysis Batch: 44924**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|-----|----------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Chloride | 366 | | 251 | 621.4 | | mg/Kg | 102 | 90 - 110 | RPD 0 20 |

Lab Sample ID: 890-3924-11 MS**Matrix: Solid****Analysis Batch: 44924**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|-----|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Chloride | 393 | F1 | 249 | 670.9 | F1 | mg/Kg | 112 | 90 - 110 | |

Lab Sample ID: 890-3924-11 MSD**Matrix: Solid****Analysis Batch: 44924**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|-----|----------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Chloride | 393 | F1 | 249 | 671.3 | F1 | mg/Kg | 112 | 90 - 110 | RPD 0 20 |

Lab Sample ID: MB 880-44792/1-A**Matrix: Solid****Analysis Batch: 44926**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 01/27/23 19:00 | 1 |

Lab Sample ID: LCS 880-44792/2-A**Matrix: Solid****Analysis Batch: 44926**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits |
|----------|-------|--------|-----------|-------|-----|----------|--------|
| | Added | Result | Qualifier | | | | |
| Chloride | 250 | 266.0 | | mg/Kg | 106 | 90 - 110 | |

Lab Sample ID: LCSD 880-44792/3-A**Matrix: Solid****Analysis Batch: 44926**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | Limit |
|----------|-------|--------|-----------|-------|-----|----------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | |
| Chloride | 250 | 265.4 | | mg/Kg | 106 | 90 - 110 | | 0 | 20 |

Lab Sample ID: 890-3924-20 MS**Matrix: Solid****Analysis Batch: 44926**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|-----|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Chloride | 13.2 | | 248 | 274.4 | | mg/Kg | 105 | 90 - 110 | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3924-20 MSD

Matrix: Solid

Analysis Batch: 44926

Client Sample ID: FS27
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|-----|----------|-------------|-----|-----------|
| Chloride | 13.2 | | 248 | 275.0 | | mg/Kg | 106 | 90 - 110 | 0 | 20 | |

QC Association Summary

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
SDG: 03D2057047

GC VOA**Analysis Batch: 45129**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-1 | FS01 | Total/NA | Solid | 8021B | 45157 |
| 890-3924-2 | FS02 | Total/NA | Solid | 8021B | 45157 |
| 890-3924-3 | FS05 | Total/NA | Solid | 8021B | 45157 |
| 890-3924-4 | FS06 | Total/NA | Solid | 8021B | 45157 |
| 890-3924-5 | FS09 | Total/NA | Solid | 8021B | 45157 |
| 890-3924-6 | FS10 | Total/NA | Solid | 8021B | 45157 |
| MB 880-45147/5-A | Method Blank | Total/NA | Solid | 8021B | 45147 |
| MB 880-45157/5-A | Method Blank | Total/NA | Solid | 8021B | 45157 |
| LCS 880-45157/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45157 |
| LCSD 880-45157/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45157 |
| 890-3916-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 45157 |
| 890-3916-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 45157 |

Analysis Batch: 45131

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-7 | FS11 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-8 | FS12 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-9 | FS13 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-10 | FS17 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-11 | FS18 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-12 | FS19 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-13 | FS20 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-14 | FS21 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-15 | FS22 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-16 | FS23 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-17 | FS24 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-18 | FS25 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-19 | FS26 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-20 | FS27 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-21 | FS28 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-22 | FS29 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-23 | FS30 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-24 | FS31 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-25 | FS32 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-26 | FS33 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-27 | FS34 | Total/NA | Solid | 8021B | 45149 |
| MB 880-45146/5-A | Method Blank | Total/NA | Solid | 8021B | 45146 |
| MB 880-45149/5-A | Method Blank | Total/NA | Solid | 8021B | 45149 |
| LCS 880-45146/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45146 |
| LCS 880-45149/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45149 |
| LCSD 880-45146/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45146 |
| LCSD 880-45149/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45149 |
| 890-3924-7 MS | FS11 | Total/NA | Solid | 8021B | 45146 |
| 890-3924-7 MSD | FS11 | Total/NA | Solid | 8021B | 45146 |

Prep Batch: 45146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-3924-7 | FS11 | Total/NA | Solid | 5035 | |
| 890-3924-8 | FS12 | Total/NA | Solid | 5035 | |
| 890-3924-9 | FS13 | Total/NA | Solid | 5035 | |
| 890-3924-10 | FS17 | Total/NA | Solid | 5035 | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

GC VOA (Continued)**Prep Batch: 45146 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-11 | FS18 | Total/NA | Solid | 5035 | 1 |
| 890-3924-12 | FS19 | Total/NA | Solid | 5035 | 2 |
| 890-3924-13 | FS20 | Total/NA | Solid | 5035 | 3 |
| 890-3924-14 | FS21 | Total/NA | Solid | 5035 | 4 |
| 890-3924-15 | FS22 | Total/NA | Solid | 5035 | 5 |
| 890-3924-16 | FS23 | Total/NA | Solid | 5035 | 6 |
| 890-3924-17 | FS24 | Total/NA | Solid | 5035 | 7 |
| 890-3924-18 | FS25 | Total/NA | Solid | 5035 | 8 |
| 890-3924-19 | FS26 | Total/NA | Solid | 5035 | 9 |
| 890-3924-20 | FS27 | Total/NA | Solid | 5035 | 10 |
| 890-3924-21 | FS28 | Total/NA | Solid | 5035 | 11 |
| 890-3924-22 | FS29 | Total/NA | Solid | 5035 | 12 |
| 890-3924-23 | FS30 | Total/NA | Solid | 5035 | 13 |
| 890-3924-24 | FS31 | Total/NA | Solid | 5035 | 14 |
| 890-3924-25 | FS32 | Total/NA | Solid | 5035 | |
| 890-3924-26 | FS33 | Total/NA | Solid | 5035 | |
| MB 880-45146/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45146/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45146/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3924-7 MS | FS11 | Total/NA | Solid | 5035 | |
| 890-3924-7 MSD | FS11 | Total/NA | Solid | 5035 | |

Prep Batch: 45147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-45147/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 45149

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-27 | FS34 | Total/NA | Solid | 5035 | |
| MB 880-45149/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45149/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45149/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Prep Batch: 45157

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-1 | FS01 | Total/NA | Solid | 5035 | |
| 890-3924-2 | FS02 | Total/NA | Solid | 5035 | |
| 890-3924-3 | FS05 | Total/NA | Solid | 5035 | |
| 890-3924-4 | FS06 | Total/NA | Solid | 5035 | |
| 890-3924-5 | FS09 | Total/NA | Solid | 5035 | |
| 890-3924-6 | FS10 | Total/NA | Solid | 5035 | |
| MB 880-45157/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45157/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45157/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3916-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3916-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 45195

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3924-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-3924-2 | FS02 | Total/NA | Solid | Total BTEX | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

GC VOA (Continued)**Analysis Batch: 45195 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3924-3 | FS05 | Total/NA | Solid | Total BTEX | 1 |
| 890-3924-4 | FS06 | Total/NA | Solid | Total BTEX | 2 |
| 890-3924-5 | FS09 | Total/NA | Solid | Total BTEX | 3 |
| 890-3924-6 | FS10 | Total/NA | Solid | Total BTEX | 4 |
| 890-3924-7 | FS11 | Total/NA | Solid | Total BTEX | 5 |
| 890-3924-8 | FS12 | Total/NA | Solid | Total BTEX | 6 |
| 890-3924-9 | FS13 | Total/NA | Solid | Total BTEX | 7 |
| 890-3924-10 | FS17 | Total/NA | Solid | Total BTEX | 8 |
| 890-3924-11 | FS18 | Total/NA | Solid | Total BTEX | 9 |
| 890-3924-12 | FS19 | Total/NA | Solid | Total BTEX | 10 |
| 890-3924-13 | FS20 | Total/NA | Solid | Total BTEX | 11 |
| 890-3924-14 | FS21 | Total/NA | Solid | Total BTEX | 12 |
| 890-3924-15 | FS22 | Total/NA | Solid | Total BTEX | 13 |
| 890-3924-16 | FS23 | Total/NA | Solid | Total BTEX | 14 |
| 890-3924-17 | FS24 | Total/NA | Solid | Total BTEX | |
| 890-3924-18 | FS25 | Total/NA | Solid | Total BTEX | |
| 890-3924-19 | FS26 | Total/NA | Solid | Total BTEX | |
| 890-3924-20 | FS27 | Total/NA | Solid | Total BTEX | |
| 890-3924-21 | FS28 | Total/NA | Solid | Total BTEX | |
| 890-3924-22 | FS29 | Total/NA | Solid | Total BTEX | |
| 890-3924-23 | FS30 | Total/NA | Solid | Total BTEX | |
| 890-3924-24 | FS31 | Total/NA | Solid | Total BTEX | |
| 890-3924-25 | FS32 | Total/NA | Solid | Total BTEX | |
| 890-3924-26 | FS33 | Total/NA | Solid | Total BTEX | |
| 890-3924-27 | FS34 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 45202**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3924-1 | FS01 | Total/NA | Solid | 8015NM Prep | 1 |
| 890-3924-2 | FS02 | Total/NA | Solid | 8015NM Prep | 2 |
| 890-3924-3 | FS05 | Total/NA | Solid | 8015NM Prep | 3 |
| 890-3924-4 | FS06 | Total/NA | Solid | 8015NM Prep | 4 |
| 890-3924-5 | FS09 | Total/NA | Solid | 8015NM Prep | 5 |
| 890-3924-6 | FS10 | Total/NA | Solid | 8015NM Prep | 6 |
| MB 880-45202/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | 7 |
| LCS 880-45202/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | 8 |
| LCSD 880-45202/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | 9 |
| 890-3898-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | 10 |
| 890-3898-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | 11 |

Prep Batch: 45213

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-3924-7 | FS11 | Total/NA | Solid | 8015NM Prep | 1 |
| 890-3924-8 | FS12 | Total/NA | Solid | 8015NM Prep | 2 |
| 890-3924-9 | FS13 | Total/NA | Solid | 8015NM Prep | 3 |
| 890-3924-10 | FS17 | Total/NA | Solid | 8015NM Prep | 4 |
| 890-3924-11 | FS18 | Total/NA | Solid | 8015NM Prep | 5 |
| 890-3924-12 | FS19 | Total/NA | Solid | 8015NM Prep | 6 |
| 890-3924-13 | FS20 | Total/NA | Solid | 8015NM Prep | 7 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

GC Semi VOA (Continued)**Prep Batch: 45213 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3924-14 | FS21 | Total/NA | Solid | 8015NM Prep | 1 |
| 890-3924-15 | FS22 | Total/NA | Solid | 8015NM Prep | 2 |
| 890-3924-16 | FS23 | Total/NA | Solid | 8015NM Prep | 3 |
| 890-3924-17 | FS24 | Total/NA | Solid | 8015NM Prep | 4 |
| 890-3924-18 | FS25 | Total/NA | Solid | 8015NM Prep | 5 |
| 890-3924-19 | FS26 | Total/NA | Solid | 8015NM Prep | 6 |
| 890-3924-20 | FS27 | Total/NA | Solid | 8015NM Prep | 7 |
| 890-3924-21 | FS28 | Total/NA | Solid | 8015NM Prep | 8 |
| 890-3924-22 | FS29 | Total/NA | Solid | 8015NM Prep | 9 |
| 890-3924-23 | FS30 | Total/NA | Solid | 8015NM Prep | 10 |
| 890-3924-24 | FS31 | Total/NA | Solid | 8015NM Prep | 11 |
| 890-3924-25 | FS32 | Total/NA | Solid | 8015NM Prep | 12 |
| 890-3924-26 | FS33 | Total/NA | Solid | 8015NM Prep | 13 |
| MB 880-45213/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | 14 |
| LCS 880-45213/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | 15 |
| LCSD 880-45213/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | 16 |
| 890-3924-7 MS | FS11 | Total/NA | Solid | 8015NM Prep | 17 |
| 890-3924-7 MSD | FS11 | Total/NA | Solid | 8015NM Prep | 18 |

Prep Batch: 45214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3924-27 | FS34 | Total/NA | Solid | 8015NM Prep | 1 |
| MB 880-45214/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | 2 |
| LCS 880-45214/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | 3 |
| LCSD 880-45214/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | 4 |
| 890-3911-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | 5 |
| 890-3911-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | 6 |

Analysis Batch: 45222

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3924-1 | FS01 | Total/NA | Solid | 8015B NM | 1 |
| 890-3924-2 | FS02 | Total/NA | Solid | 8015B NM | 2 |
| 890-3924-3 | FS05 | Total/NA | Solid | 8015B NM | 3 |
| 890-3924-4 | FS06 | Total/NA | Solid | 8015B NM | 4 |
| 890-3924-5 | FS09 | Total/NA | Solid | 8015B NM | 5 |
| 890-3924-6 | FS10 | Total/NA | Solid | 8015B NM | 6 |
| MB 880-45202/1-A | Method Blank | Total/NA | Solid | 8015B NM | 7 |
| LCS 880-45202/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 8 |
| LCSD 880-45202/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 9 |
| 890-3898-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 10 |
| 890-3898-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 11 |

Analysis Batch: 45301

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-3924-7 | FS11 | Total/NA | Solid | 8015B NM | 1 |
| 890-3924-8 | FS12 | Total/NA | Solid | 8015B NM | 2 |
| 890-3924-9 | FS13 | Total/NA | Solid | 8015B NM | 3 |
| 890-3924-10 | FS17 | Total/NA | Solid | 8015B NM | 4 |
| 890-3924-11 | FS18 | Total/NA | Solid | 8015B NM | 5 |
| 890-3924-12 | FS19 | Total/NA | Solid | 8015B NM | 6 |
| 890-3924-13 | FS20 | Total/NA | Solid | 8015B NM | 7 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

GC Semi VOA (Continued)**Analysis Batch: 45301 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3924-14 | FS21 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-15 | FS22 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-16 | FS23 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-17 | FS24 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-18 | FS25 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-19 | FS26 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-20 | FS27 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-21 | FS28 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-22 | FS29 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-23 | FS30 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-24 | FS31 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-25 | FS32 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-26 | FS33 | Total/NA | Solid | 8015B NM | 45213 |
| MB 880-45213/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45213 |
| LCS 880-45213/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45213 |
| LCSD 880-45213/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-7 MS | FS11 | Total/NA | Solid | 8015B NM | 45213 |
| 890-3924-7 MSD | FS11 | Total/NA | Solid | 8015B NM | 45213 |

Analysis Batch: 45303

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3924-27 | FS34 | Total/NA | Solid | 8015B NM | 45214 |
| MB 880-45214/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45214 |
| LCS 880-45214/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45214 |
| LCSD 880-45214/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45214 |
| 890-3911-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 45214 |
| 890-3911-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 45214 |

Analysis Batch: 45393

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3924-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-3924-2 | FS02 | Total/NA | Solid | 8015 NM | |
| 890-3924-3 | FS05 | Total/NA | Solid | 8015 NM | |
| 890-3924-4 | FS06 | Total/NA | Solid | 8015 NM | |
| 890-3924-5 | FS09 | Total/NA | Solid | 8015 NM | |
| 890-3924-6 | FS10 | Total/NA | Solid | 8015 NM | |
| 890-3924-7 | FS11 | Total/NA | Solid | 8015 NM | |
| 890-3924-8 | FS12 | Total/NA | Solid | 8015 NM | |
| 890-3924-9 | FS13 | Total/NA | Solid | 8015 NM | |
| 890-3924-10 | FS17 | Total/NA | Solid | 8015 NM | |
| 890-3924-11 | FS18 | Total/NA | Solid | 8015 NM | |
| 890-3924-12 | FS19 | Total/NA | Solid | 8015 NM | |
| 890-3924-13 | FS20 | Total/NA | Solid | 8015 NM | |
| 890-3924-14 | FS21 | Total/NA | Solid | 8015 NM | |
| 890-3924-15 | FS22 | Total/NA | Solid | 8015 NM | |
| 890-3924-16 | FS23 | Total/NA | Solid | 8015 NM | |
| 890-3924-17 | FS24 | Total/NA | Solid | 8015 NM | |
| 890-3924-18 | FS25 | Total/NA | Solid | 8015 NM | |
| 890-3924-19 | FS26 | Total/NA | Solid | 8015 NM | |
| 890-3924-20 | FS27 | Total/NA | Solid | 8015 NM | |
| 890-3924-21 | FS28 | Total/NA | Solid | 8015 NM | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

GC Semi VOA (Continued)**Analysis Batch: 45393 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3924-22 | FS29 | Total/NA | Solid | 8015 NM | |
| 890-3924-23 | FS30 | Total/NA | Solid | 8015 NM | |
| 890-3924-24 | FS31 | Total/NA | Solid | 8015 NM | |
| 890-3924-25 | FS32 | Total/NA | Solid | 8015 NM | |
| 890-3924-26 | FS33 | Total/NA | Solid | 8015 NM | |
| 890-3924-27 | FS34 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 44791**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3924-1 | FS01 | Soluble | Solid | DI Leach | |
| 890-3924-2 | FS02 | Soluble | Solid | DI Leach | |
| 890-3924-3 | FS05 | Soluble | Solid | DI Leach | |
| 890-3924-4 | FS06 | Soluble | Solid | DI Leach | |
| 890-3924-5 | FS09 | Soluble | Solid | DI Leach | |
| 890-3924-6 | FS10 | Soluble | Solid | DI Leach | |
| 890-3924-7 | FS11 | Soluble | Solid | DI Leach | |
| 890-3924-8 | FS12 | Soluble | Solid | DI Leach | |
| 890-3924-9 | FS13 | Soluble | Solid | DI Leach | |
| 890-3924-10 | FS17 | Soluble | Solid | DI Leach | |
| 890-3924-11 | FS18 | Soluble | Solid | DI Leach | |
| 890-3924-12 | FS19 | Soluble | Solid | DI Leach | |
| 890-3924-13 | FS20 | Soluble | Solid | DI Leach | |
| 890-3924-14 | FS21 | Soluble | Solid | DI Leach | |
| 890-3924-15 | FS22 | Soluble | Solid | DI Leach | |
| 890-3924-16 | FS23 | Soluble | Solid | DI Leach | |
| 890-3924-17 | FS24 | Soluble | Solid | DI Leach | |
| 890-3924-18 | FS25 | Soluble | Solid | DI Leach | |
| 890-3924-19 | FS26 | Soluble | Solid | DI Leach | |
| MB 880-44791/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-44791/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-44791/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3924-1 MS | FS01 | Soluble | Solid | DI Leach | |
| 890-3924-1 MSD | FS01 | Soluble | Solid | DI Leach | |
| 890-3924-11 MS | FS18 | Soluble | Solid | DI Leach | |
| 890-3924-11 MSD | FS18 | Soluble | Solid | DI Leach | |

Leach Batch: 44792

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3924-20 | FS27 | Soluble | Solid | DI Leach | |
| 890-3924-21 | FS28 | Soluble | Solid | DI Leach | |
| 890-3924-22 | FS29 | Soluble | Solid | DI Leach | |
| 890-3924-23 | FS30 | Soluble | Solid | DI Leach | |
| 890-3924-24 | FS31 | Soluble | Solid | DI Leach | |
| 890-3924-25 | FS32 | Soluble | Solid | DI Leach | |
| 890-3924-26 | FS33 | Soluble | Solid | DI Leach | |
| 890-3924-27 | FS34 | Soluble | Solid | DI Leach | |
| MB 880-44792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-44792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-44792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

HPLC/IC (Continued)**Leach Batch: 44792 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|----------|------------|
| 890-3924-20 MS | FS27 | Soluble | Solid | DI Leach | |
| 890-3924-20 MSD | FS27 | Soluble | Solid | DI Leach | |

Analysis Batch: 44924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-1 | FS01 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-2 | FS02 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-3 | FS05 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-4 | FS06 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-5 | FS09 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-6 | FS10 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-7 | FS11 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-8 | FS12 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-9 | FS13 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-10 | FS17 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-11 | FS18 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-12 | FS19 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-13 | FS20 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-14 | FS21 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-15 | FS22 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-16 | FS23 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-17 | FS24 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-18 | FS25 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-19 | FS26 | Soluble | Solid | 300.0 | 44791 |
| MB 880-44791/1-A | Method Blank | Soluble | Solid | 300.0 | 44791 |
| LCS 880-44791/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 44791 |
| LCSD 880-44791/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 44791 |
| 890-3924-1 MS | FS01 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-1 MSD | FS01 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-11 MS | FS18 | Soluble | Solid | 300.0 | 44791 |
| 890-3924-11 MSD | FS18 | Soluble | Solid | 300.0 | 44791 |

Analysis Batch: 44926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3924-20 | FS27 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-21 | FS28 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-22 | FS29 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-23 | FS30 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-24 | FS31 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-25 | FS32 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-26 | FS33 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-27 | FS34 | Soluble | Solid | 300.0 | 44792 |
| MB 880-44792/1-A | Method Blank | Soluble | Solid | 300.0 | 44792 |
| LCS 880-44792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 44792 |
| LCSD 880-44792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 44792 |
| 890-3924-20 MS | FS27 | Soluble | Solid | 300.0 | 44792 |
| 890-3924-20 MSD | FS27 | Soluble | Solid | 300.0 | 44792 |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS01

Date Collected: 01/18/23 10:00

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-1

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 | 45157 | 01/31/23 16:30 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45129 | 02/01/23 05:56 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 11:49 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45202 | 02/01/23 12:51 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45222 | 02/03/23 03:27 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 15:42 | CH | EET MID |

Client Sample ID: FS02

Date Collected: 01/18/23 10:10

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-2

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 | | | 5.03 g | 5 mL | 45157 | 01/31/23 16:30 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45129 | 02/01/23 06:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 11:49 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45202 | 02/01/23 12:51 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45222 | 02/03/23 03:47 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:01 | CH | EET MID |

Client Sample ID: FS05

Date Collected: 01/18/23 10:45

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 45157 | 01/31/23 16:30 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45129 | 02/01/23 06:37 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 11:49 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45202 | 02/01/23 12:51 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45222 | 02/03/23 04:07 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:07 | CH | EET MID |

Client Sample ID: FS06

Date Collected: 01/18/23 13:20

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 45157 | 01/31/23 16:30 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45129 | 02/01/23 06:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:53 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS06

Date Collected: 01/18/23 13:20
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 11:49 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45202 | 02/01/23 12:51 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45222 | 02/03/23 04:27 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:13 | CH | EET MID |

Client Sample ID: FS09

Date Collected: 01/18/23 13:25
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-5
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 45157 | 01/31/23 16:30 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45129 | 02/01/23 07:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 11:49 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45202 | 02/01/23 12:51 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45222 | 02/03/23 04:47 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:19 | CH | EET MID |

Client Sample ID: FS10

Date Collected: 01/18/23 13:30
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-6
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 45157 | 01/31/23 16:30 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45129 | 02/01/23 07:38 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 11:49 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45202 | 02/01/23 12:51 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45222 | 02/03/23 05:07 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:38 | CH | EET MID |

Client Sample ID: FS11

Date Collected: 01/19/23 08:30
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 17:36 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 11:16 | AJ | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS11

Date Collected: 01/19/23 08:30
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:44 | CH | EET MID |

Client Sample ID: FS12

Date Collected: 01/19/23 08:35
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-8
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 17:56 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 12:22 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:50 | CH | EET MID |

Client Sample ID: FS13

Date Collected: 01/19/23 08:40
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-9
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 18:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 12:45 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 16:56 | CH | EET MID |

Client Sample ID: FS17

Date Collected: 01/19/23 09:10
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-10
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 18:37 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 13:06 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 17:02 | CH | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS18

Date Collected: 01/19/23 09:15
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-11

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 18:58 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 13:28 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 17:08 | CH | EET MID |

Client Sample ID: FS19

Date Collected: 01/19/23 09:20
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-12

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 19:18 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 13:51 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 17:27 | CH | EET MID |

Client Sample ID: FS20

Date Collected: 01/19/23 09:25
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-13

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 19:39 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 14:12 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 17:33 | CH | EET MID |

Client Sample ID: FS21

Date Collected: 01/19/23 11:00
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-14

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 19:59 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS21

Date Collected: 01/19/23 11:00
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-14
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 14:34 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 17:51 | CH | EET MID |

Client Sample ID: FS22

Date Collected: 01/19/23 11:05
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-15
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 20:20 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 14:55 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 17:58 | CH | EET MID |

Client Sample ID: FS23

Date Collected: 01/19/23 11:25
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-16
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 20:40 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 15:16 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 18:04 | CH | EET MID |

Client Sample ID: FS24

Date Collected: 01/19/23 11:30
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-17
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 | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 22:03 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 16:00 | AJ | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS24

Date Collected: 01/19/23 11:30
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-17
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 18:10 | CH | EET MID |

Client Sample ID: FS25

Date Collected: 01/19/23 11:35
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-18
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 | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 22:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/03/23 16:54 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 16:22 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 18:16 | CH | EET MID |

Client Sample ID: FS26

Date Collected: 01/19/23 12:00
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-19
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 22:44 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 16:43 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 44791 | 01/26/23 08:31 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44924 | 01/27/23 18:22 | CH | EET MID |

Client Sample ID: FS27

Date Collected: 01/19/23 12:05
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-20
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 23:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 17:05 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 19:18 | CH | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS28

Date Collected: 01/19/23 12:10
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-21

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 23:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 17:26 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 19:36 | CH | EET MID |

Client Sample ID: FS29

Date Collected: 01/19/23 12:30
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-22

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 01/31/23 23:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 17:48 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 19:43 | CH | EET MID |

Client Sample ID: FS30

Date Collected: 01/19/23 12:35
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-23

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 00:07 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 18:09 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 19:49 | CH | EET MID |

Client Sample ID: FS31

Date Collected: 01/19/23 12:40
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-24

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 00:27 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS31

Date Collected: 01/19/23 12:40
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-24

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 18:31 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 19:55 | CH | EET MID |

Client Sample ID: FS32

Date Collected: 01/19/23 13:40
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-25

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 | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 00:48 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 18:54 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 20:13 | CH | EET MID |

Client Sample ID: FS33

Date Collected: 01/19/23 13:45
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-26

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 45146 | 01/31/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 01:08 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/05/23 09:15 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45213 | 02/01/23 14:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45301 | 02/03/23 19:16 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 20:20 | CH | EET MID |

Client Sample ID: FS34

Date Collected: 01/19/23 13:50
 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-27

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 | | | 5.04 g | 5 mL | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 11:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45195 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45393 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 17:15 | AJ | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3924-1
 SDG: 03D2057047

Client Sample ID: FS34

Date Collected: 01/19/23 13:50

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3924-27

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 44792 | 01/26/23 08:32 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 20:26 | CH | EET MID |

Laboratory References:

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum

Job ID: 890-3924-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum

Job ID: 890-3924-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Job ID: 890-3924-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----|
| 890-3924-1 | FS01 | Solid | 01/18/23 10:00 | 01/23/23 16:24 | 2.5' | 1 |
| 890-3924-2 | FS02 | Solid | 01/18/23 10:10 | 01/23/23 16:24 | 2.5' | 2 |
| 890-3924-3 | FS05 | Solid | 01/18/23 10:45 | 01/23/23 16:24 | 2.5' | 3 |
| 890-3924-4 | FS06 | Solid | 01/18/23 13:20 | 01/23/23 16:24 | 2.5' | 4 |
| 890-3924-5 | FS09 | Solid | 01/18/23 13:25 | 01/23/23 16:24 | 2.5' | 5 |
| 890-3924-6 | FS10 | Solid | 01/18/23 13:30 | 01/23/23 16:24 | 2.5' | 6 |
| 890-3924-7 | FS11 | Solid | 01/19/23 08:30 | 01/23/23 16:24 | 2.5' | 7 |
| 890-3924-8 | FS12 | Solid | 01/19/23 08:35 | 01/23/23 16:24 | 0.5' | 8 |
| 890-3924-9 | FS13 | Solid | 01/19/23 08:40 | 01/23/23 16:24 | 0.5' | 9 |
| 890-3924-10 | FS17 | Solid | 01/19/23 09:10 | 01/23/23 16:24 | 2.5' | 10 |
| 890-3924-11 | FS18 | Solid | 01/19/23 09:15 | 01/23/23 16:24 | 2.5' | 11 |
| 890-3924-12 | FS19 | Solid | 01/19/23 09:20 | 01/23/23 16:24 | 2' | 12 |
| 890-3924-13 | FS20 | Solid | 01/19/23 09:25 | 01/23/23 16:24 | 0.5' | 13 |
| 890-3924-14 | FS21 | Solid | 01/19/23 11:00 | 01/23/23 16:24 | 2.5' | 14 |
| 890-3924-15 | FS22 | Solid | 01/19/23 11:05 | 01/23/23 16:24 | 0.5' | |
| 890-3924-16 | FS23 | Solid | 01/19/23 11:25 | 01/23/23 16:24 | 0.5' | |
| 890-3924-17 | FS24 | Solid | 01/19/23 11:30 | 01/23/23 16:24 | 0.5' | |
| 890-3924-18 | FS25 | Solid | 01/19/23 11:35 | 01/23/23 16:24 | 0.5' | |
| 890-3924-19 | FS26 | Solid | 01/19/23 12:00 | 01/23/23 16:24 | 0.5' | |
| 890-3924-20 | FS27 | Solid | 01/19/23 12:05 | 01/23/23 16:24 | 0.5' | |
| 890-3924-21 | FS28 | Solid | 01/19/23 12:10 | 01/23/23 16:24 | 0.5' | |
| 890-3924-22 | FS29 | Solid | 01/19/23 12:30 | 01/23/23 16:24 | 0.5' | |
| 890-3924-23 | FS30 | Solid | 01/19/23 12:35 | 01/23/23 16:24 | 0.5' | |
| 890-3924-24 | FS31 | Solid | 01/19/23 12:40 | 01/23/23 16:24 | 0.5' | |
| 890-3924-25 | FS32 | Solid | 01/19/23 13:40 | 01/23/23 16:24 | 2' | |
| 890-3924-26 | FS33 | Solid | 01/19/23 13:45 | 01/23/23 16:24 | 0.5' | |
| 890-3924-27 | FS34 | Solid | 01/19/23 13:50 | 01/23/23 16:24 | 0.5' | |

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 Page 1 of 3

| | | | |
|------------------|-------------------------------|-------------------------|---|
| Project Manager: | Hadlie Green | 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: | 432-557-8895 | Email: | kjennings@ensolum.com, hgreen@ensolum.com |

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

| ANALYSIS REQUEST | | | | | | | | | |
|--------------------------|---|---|---|------------|--|--|--|--|--|
| Project Name: | Jalmar Yates Sant Unit 170 | Turn Around | | | | | | | |
| Project Number: | 03D20257047 | <input checked="" type="checkbox"/> Routine | <input type="checkbox"/> Rush | Pres. Code | | | | | |
| Project Location: | Lea | Due Date: | | | | | | | |
| Sampler's Name: | Peter Van Patten | TAT starts the day received by the lab, if received by 4:30pm | | | | | | | |
| PO #: | | Wet Ice: | <input checked="" type="checkbox"/> Yes | No | | | | | |
| SAMPLE RECEIPT | Temp Blank: <input checked="" type="checkbox"/> Yes No | Thermometer ID: <input checked="" type="checkbox"/> Thermometer <input type="checkbox"/> Correction Factor: <input checked="" type="checkbox"/> Temperature Reading: <input checked="" type="checkbox"/> Corrected Temperature: <input checked="" type="checkbox"/> | | | | | | | |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | | | | | | | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | | | | | | | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | | | | | | | |
| Total Containers: | | | | | | | | | |



890-39224 Chain of Custody

| ANALYSIS REQUEST | | | | | | | | | |
|---|----------------------------|--|--|--|--|--|--|--|--|
| Preservative Codes | | | | | | | | | |
| None: NO | DI Water: H ₂ O | | | | | | | | |
| Cool: Cool | MeOH: Me | | | | | | | | |
| HCl: HC | HNO ₃ : HN | | | | | | | | |
| H ₂ SO ₄ : H ₂ | NaOH: Na | | | | | | | | |
| H ₃ PO ₄ : HP | | | | | | | | | |
| NaHSO ₄ : NABIS | | | | | | | | | |
| Na ₂ S ₂ O ₃ : NaSO ₃ | | | | | | | | | |
| Zn Acetate+NaOH: Zn | | | | | | | | | |
| NaOH+Ascorbic Acid: SAPC | | | | | | | | | |

Sample Comments

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) |
|-----------------------|--------|--------------|--------------|-------|------------|-----------|------------------------|------------|-------------|
| FS01 | Soil | 1/18/2023 | 1000 | 2.5' | Comp | 1 | x | x | x |
| FS02 | Soil | 1/18/2023 | 1010 | 2.5' | Comp | 1 | x | x | x |
| FS05 | Soil | 1/18/2023 | 1045 | 2.5' | Comp | 1 | x | x | x |
| FS06 | Soil | 1/18/2023 | 1320 | 2.5' | Comp | 1 | x | x | x |
| FS09 | Soil | 1/18/2023 | 1325 | 2.5' | Comp | 1 | x | x | x |
| FS10 | Soil | 1/18/2023 | 1330 | 2.5' | Comp | 1 | x | x | x |
| FS11 | Soil | 1/19/2023 | 830 | 2.5' | Comp | 1 | x | x | x |
| FS12 | Soil | 1/19/2023 | 835 | 0.5' | Comp | 1 | x | x | x |
| FS13 | Soil | 1/19/2023 | 840 | 0.5' | Comp | 1 | x | x | x |
| FS17 | Soil | 1/19/2023 | 910 | 2.5' | Comp | 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 SiO₂ 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 / 2451 / 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 | Amanda Dugay | 1-23-23 1624 | | | |
| 3 | | | | | |
| 5 | | | | | |

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) 794-1286
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

| | | | |
|------------------|--------------------------------|-------------------------|---|
| Project Manager: | Hadlie Green | Bill to: (if different) | Kalei Jennings |
| Company Name: | Ensolum, LLC | Company Name: | Ensolum, LLC |
| Address: | 601 N Marientfeld St Suite 400 | Address: | 601 N Marientfeld St Suite 400 |
| City, State ZIP: | Midland, TX 79701 | City, State ZIP: | Midland, TX 79701 |
| Phone: | 432-557-8895 | Email: | kjennings@ensolum.com, hgreen@ensolum.com |

| ANALYSIS REQUEST | | | | | |
|---|---|----------------------|-----------------------|---------|--|
| Preservative Codes | | | | | |
| None: NO | DI Water: H ₂ O | Cool: Cool | MeOH: Me | HCl: HC | |
| H ₂ SO ₄ : H ₂ | H ₃ PO ₄ : HP | H ₂ O: Na | HNO ₃ : HN | | |
| NaHSO ₄ : NABIS | Na ₂ S ₂ O ₃ : NaSO ₃ | Zn Acetate+NaOH: Zn | | | |
| NaOH+Ascorbic Acid: SAPC | | | | | |

| SAMPLE RECEIPT | | | | | | Parameters | | | | | |
|--------------------------|----|-----|------------------------|-----|----|------------------------|--|--|--|--|--|
| Samples Received Intact: | | | | | | CHLORIDES (EPA: 300.0) | | | | | |
| Yes | No | N/A | Temp Blank: | Yes | No | Thermometer ID: | | | | | |
| Yes | No | N/A | Corrector Factor: | 1.0 | | Temperature Reading: | | | | | |
| Yes | No | N/A | Corrected Temperature: | | | | | | | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|-------------|-----------------|
| FS18 | Soil | 1/19/2023 | 915 | 2.5' | Comp | 1 | x | x | x | |
| FS19 | Soil | 1/19/2023 | 920 | 2' | Comp | 1 | x | x | x | |
| FS20 | Soil | 1/19/2023 | 925 | 2' | Comp | 1 | x | x | x | |
| FS21 | Soil | 1/19/2023 | 1100 | 0.5' | Comp | 1 | x | x | x | |
| FS22 | Soil | 1/19/2023 | 1105 | 2.5' | Comp | 1 | x | x | x | |
| FS23 | Soil | 1/19/2023 | 1125 | 0.5' | Comp | 1 | x | x | x | |
| FS24 | Soil | 1/19/2023 | 1130 | 0.5' | Comp | 1 | x | x | x | |
| FS25 | Soil | 1/19/2023 | 1135 | 0.5' | Comp | 1 | x | x | x | |
| FS26 | Soil | 1/19/2023 | 1200 | 0.5' | Comp | 1 | x | x | x | |
| FS27 | Soil | 1/19/2023 | 1205 | 0.5' | Comp | 1 | x | x | x | |

| | | | | | | | | | | | | | | | | | | | |
|--|---------------|-------------------------|----------|----|----|----|----|----|------|---|----|----|----|----|----|----|----|---|--------------------------------|
| Total 200.7 / 6010 | 200.8 / 6020: | 8RCRA 13PPM | Texas 11 | AI | Sb | As | Ba | Be | B Cd | Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ 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 |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Pete Van Tinter | Amberola Story | 1-23-23 10:21 | | | |
| 3 | | | | | |
| 5 | | | | | |

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

Page

3 of 3

| | | | |
|------------------|-------------------------------|------------------------|---|
| Project Manager: | Hadlie Green | 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: | 432-557-8895 | Email: | kjennings@ensolum.com, hgreen@ensolum.com |

| ANALYSIS REQUEST | | Preservative Codes | |
|--------------------|--------------------------|--------------------|--------------------------|
| Program: UST/PST | <input type="checkbox"/> | PBP | <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: | |

| SAMPLE RECEIPT | | | | | | | | Parameters | | | | | | | |
|--------------------------|------|-----------|-------------|------------------------|------|----------|-----|-----------------|------------------------|--|--|--|--|--|--|
| Samples Received Intact: | Yes | No | Temp Blank: | Yes | No | Wet Joe: | Yes | No | Chlorides (EPA: 300.0) | | | | | | |
| Cooler Custody Seals: | Yes | No | N/A | Correction Factor: | | | | | TPH (8015) | | | | | | |
| Sample Custody Seals: | Yes | No | N/A | Temperature Reading: | | | | | BTEX (8021) | | | | | | |
| Total Containers: | | | | Corrected Temperature: | | | | | | | | | | | |
| Sample Identification | | | | | | | | Sample Comments | | | | | | | |
| FS28 | Soil | 1/19/2023 | 1210 | 0.5' | Comp | 1 | x | # of Cont | CHLORIDES (EPA: 300.0) | | | | | | |
| FS29 | Soil | 1/19/2023 | 1230 | 0.5' | Comp | 1 | x | Grab Comp | TPH (8015) | | | | | | |
| FS30 | Soil | 1/19/2023 | 1235 | 0.5' | Comp | 1 | x | Cont | BTEX (8021) | | | | | | |
| FS31 | Soil | 1/19/2023 | 1240 | 2' | Comp | 1 | x | | | | | | | | |
| FS32 | Soil | 1/19/2023 | 1340 | 0.5' | Comp | 1 | x | | | | | | | | |
| FS33 | Soil | 1/19/2023 | 1345 | 0.5' | Comp | 1 | x | | | | | | | | |
| FS34 | Soil | 1/19/2023 | 1350 | 0.5' | Comp | 1 | 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 SiO₂ Na Sr Ti Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCPL / SPLP 6010: 8RCRA Sp 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 | | 1-23-23 11:44 | | | |
| 3 | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3924-1

SDG Number: 03D2057047

Login Number: 3924**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3924-1

SDG Number: 03D2057047

Login Number: 3924**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 01/25/23 12:13 PM**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/4/2023 9:29:20 AM

JOB DESCRIPTION

Jalmat Yates Sant Unit 170
SDG NUMBER 03D2057047

JOB NUMBER

890-3927-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2023 11:55:12 AM

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/4/2023 9:29:20 AM

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

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Laboratory Job ID: 890-3927-1
 SDG: 03D2057047

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 7 |
| Surrogate Summary | 11 | 8 |
| QC Sample Results | 12 | 9 |
| QC Association Summary | 16 | 10 |
| Lab Chronicle | 19 | 11 |
| Certification Summary | 21 | 12 |
| Method Summary | 22 | 13 |
| Sample Summary | 23 | 14 |
| Chain of Custody | 24 | |
| Receipt Checklists | 25 | |

Definitions/Glossary

Client: Ensolum

Job ID: 890-3927-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

Job ID: 890-3927-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3927-1****Receipt**

The samples were received on 1/23/2023 4:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-3927-1), SW02 (890-3927-2), SW03 (890-3927-3), SW04 (890-3927-4), SW05 (890-3927-5) and SW06 (890-3927-6).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-45146 and analytical batch 880-45131 was outside the control limits.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Client Sample ID: SW01

Date Collected: 01/19/23 13:55

Date Received: 01/23/23 16:24

Sample Depth: 0-2'

Lab Sample ID: 890-3927-1

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:35 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:35 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:35 | | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:35 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:35 | | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:35 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 110 | | 70 - 130 | | 01/31/23 14:43 | 02/01/23 05:35 | 1 |
| 1,4-Difluorobenzene (Surr) | | 79 | | 70 - 130 | | 01/31/23 14:43 | 02/01/23 05:35 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/04/23 09:40 | 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 | 02/01/23 15:22 | 02/03/23 17:35 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 15:22 | 02/03/23 17:35 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 15:22 | 02/03/23 17:35 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | 70 | | 70 - 130 | | 02/01/23 15:22 | 02/03/23 17:35 | 1 |
| o-Terphenyl | | 71 | | 70 - 130 | | 02/01/23 15:22 | 02/03/23 17:35 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 87.8 | | 4.95 | mg/Kg | | | 01/29/23 18:19 | 1 |

Client Sample ID: SW02

Date Collected: 01/19/23 14:10

Date Received: 01/23/23 16:24

Sample Depth: 0-2'

Lab Sample ID: 890-3927-2

Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:55 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:55 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:55 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:55 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:55 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 01/31/23 14:43 | 02/01/23 05:55 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 86 | | 70 - 130 | | 01/31/23 14:43 | 02/01/23 05:55 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

Client Sample ID: SW02
Date Collected: 01/19/23 14:10
Date Received: 01/23/23 16:24
Sample Depth: 0-2'

Lab Sample ID: 890-3927-2
Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|----------|-------|---|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | mg/Kg | | 01/31/23 14:43 | 02/01/23 05:55 | 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 | | | 02/01/23 12:31 | 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 | | | 02/04/23 09:40 | 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 | | 02/01/23 15:22 | 02/03/23 17:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 17:56 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 17:56 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|----------|-------|---|----------------|----------------|---------|
| 1-Chlorooctane | 78 | | 70 - 130 | mg/Kg | | 02/01/23 15:22 | 02/03/23 17:56 | 1 |
| o-Terphenyl | 79 | | 70 - 130 | mg/Kg | | 02/01/23 15:22 | 02/03/23 17:56 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 36.3 | | 4.96 | mg/Kg | | | 01/29/23 18:25 | 1 |

Client Sample ID: SW03**Lab Sample ID: 890-3927-3**

Date Collected: 01/19/23 14:15

Matrix: Solid

Date Received: 01/23/23 16:24

Sample Depth: 0-2.5'

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 | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|----------|-------|---|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:16 | 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 | | | 02/01/23 12:31 | 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 | | | 02/04/23 09:40 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Client Sample ID: SW03**Lab Sample ID: 890-3927-3**

Date Collected: 01/19/23 14:15

Matrix: Solid

Date Received: 01/23/23 16:24

Sample Depth: 0-2.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | 02/01/23 15:22 | 02/03/23 18:17 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 15:22 | 02/03/23 18:17 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 15:22 | 02/03/23 18:17 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 71 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 18:17 | 1 |
| o-Terphenyl | 71 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 18:17 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 363 | | 4.97 | mg/Kg | | | 01/29/23 18:31 | 1 |

Client Sample ID: SW04**Lab Sample ID: 890-3927-4**

Date Collected: 01/19/23 14:20

Matrix: Solid

Date Received: 01/23/23 16:24

Sample Depth: 0-2'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:43 | 02/01/23 06:36 | | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:43 | 02/01/23 06:36 | | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:43 | 02/01/23 06:36 | | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | 01/31/23 14:43 | 02/01/23 06:36 | | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | 01/31/23 14:43 | 02/01/23 06:36 | | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | 01/31/23 14:43 | 02/01/23 06:36 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | | 01/31/23 14:43 | 02/01/23 06:36 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 01/31/23 14:43 | 02/01/23 06:36 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 02/01/23 12:31 | 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 | | | 02/04/23 09:40 | 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 | 02/01/23 15:22 | 02/03/23 18:38 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 15:22 | 02/03/23 18:38 | | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/01/23 15:22 | 02/03/23 18:38 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 74 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 18:38 | 1 |
| o-Terphenyl | 75 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 18:38 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Client Sample ID: SW04
 Date Collected: 01/19/23 14:20
 Date Received: 01/23/23 16:24
 Sample Depth: 0-2'

Lab Sample ID: 890-3927-4
 Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 41.5 | | 5.00 | mg/Kg | | | 01/29/23 18:50 | 1 |

Client Sample ID: SW05
 Date Collected: 01/19/23 14:40
 Date Received: 01/23/23 16:24
 Sample Depth: 0.5-2.5'

Lab Sample ID: 890-3927-5
 Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | | 01/31/23 14:43 | 02/01/23 06:57 | 1 |
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | | | 01/31/23 14:43 | 02/01/23 06:57 | 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 | | | 02/01/23 12:31 | 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 | | | 02/04/23 09:40 | 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 | | 02/01/23 15:22 | 02/03/23 18:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 18:58 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 18:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 79 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 18:58 | 1 |
| <i>o</i> -Terphenyl | 82 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 18:58 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 69.7 | | 4.98 | mg/Kg | | | 01/29/23 18:56 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Client Sample ID: SW06**Lab Sample ID: 890-3927-6**

Matrix: Solid

Date Collected: 01/19/23 14:50

Date Received: 01/23/23 16:24

Sample Depth: 0.5'-2.5

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 | 01/31/23 14:43 | 02/01/23 07:17 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:43 | 02/01/23 07:17 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:43 | 02/01/23 07:17 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 01/31/23 14:43 | 02/01/23 07:17 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 01/31/23 14:43 | 02/01/23 07:17 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 01/31/23 14:43 | 02/01/23 07:17 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 80 | | 70 - 130 | | 01/31/23 14:43 | 02/01/23 07:17 | 1 |
| 1,4-Difluorobenzene (Surr) | | 99 | | 70 - 130 | | 01/31/23 14:43 | 02/01/23 07:17 | 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 | | | 02/01/23 12:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 221 | | 50.0 | mg/Kg | | | 02/04/23 09:40 | 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 | 02/01/23 15:22 | 02/03/23 19:19 | | 1 |
| Diesel Range Organics (Over C10-C28) | 221 | | 50.0 | mg/Kg | 02/01/23 15:22 | 02/03/23 19:19 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 02/01/23 15:22 | 02/03/23 19:19 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 109 | | 4.99 | mg/Kg | | | 01/29/23 19:02 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum

Job ID: 890-3927-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|----------------------|-------------------------|---|---------------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-3920-A-1-B MS | Matrix Spike | 106 | 100 |
| 890-3920-A-1-C MSD | Matrix Spike Duplicate | 92 | 109 |
| 890-3927-1 | SW01 | 110 | 79 |
| 890-3927-2 | SW02 | 86 | 96 |
| 890-3927-3 | SW03 | 114 | 87 |
| 890-3927-4 | SW04 | 94 | 89 |
| 890-3927-5 | SW05 | 100 | 82 |
| 890-3927-6 | SW06 | 80 | 99 |
| LCS 880-45149/1-A | Lab Control Sample | 101 | 108 |
| LCSD 880-45149/2-A | Lab Control Sample Dup | 103 | 104 |
| MB 880-45146/5-A | Method Blank | 68 S1- | 92 |
| MB 880-45149/5-A | Method Blank | 74 | 91 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|----------------------|-------------------------|---|---------------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-3911-A-1-F MS | Matrix Spike | 84 | 75 |
| 890-3911-A-1-G MSD | Matrix Spike Duplicate | 87 | 75 |
| 890-3927-1 | SW01 | 70 | 71 |
| 890-3927-2 | SW02 | 78 | 79 |
| 890-3927-3 | SW03 | 71 | 71 |
| 890-3927-4 | SW04 | 74 | 75 |
| 890-3927-5 | SW05 | 79 | 82 |
| 890-3927-6 | SW06 | 72 | 72 |
| LCS 880-45214/2-A | Lab Control Sample | 87 | 84 |
| LCSD 880-45214/3-A | Lab Control Sample Dup | 87 | 84 |
| MB 880-45214/1-A | Method Blank | 96 | 102 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-45146/5-A****Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45146**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/31/23 14:29 | 01/31/23 17:14 | | 1 | |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 68 | S1- | 70 - 130 | | | | | 01/31/23 14:29 | 01/31/23 17:14 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | | | | | 01/31/23 14:29 | 01/31/23 17:14 | 1 |

Lab Sample ID: MB 880-45149/5-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45149**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:43 | 02/01/23 03:51 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:43 | 02/01/23 03:51 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:43 | 02/01/23 03:51 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 01/31/23 14:43 | 02/01/23 03:51 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 01/31/23 14:43 | 02/01/23 03:51 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 01/31/23 14:43 | 02/01/23 03:51 | | 1 | |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | | | | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | | | | | 01/31/23 14:43 | 02/01/23 03:51 | 1 |

Lab Sample ID: LCS 880-45149/1-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45149**

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|---|------|--------|--|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1036 | | mg/Kg | 104 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.09150 | | mg/Kg | 92 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.09043 | | mg/Kg | 90 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.1882 | | mg/Kg | 94 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.09431 | | mg/Kg | 94 | 70 - 130 | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | | D | %Rec | Limits | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | | | | | |

Lab Sample ID: LCSD 880-45149/2-A**Matrix: Solid****Analysis Batch: 45131****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45149**

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | |
|---------|-------|--------|-----------|--------|-----------|----------|---|------|--------|--|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1062 | | mg/Kg | 106 | 70 - 130 | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

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

Lab Sample ID: LCSD 880-45149/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 45131

| Analyte | | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------------------|--|-------|---------|-----------|-------|---|------|----------|-----|-----------|
| | | Added | Result | Qualifier | | | | | | |
| Toluene | | 0.100 | 0.09716 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |
| Ethylbenzene | | 0.100 | 0.09608 | | mg/Kg | | 96 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | | 0.200 | 0.2004 | | mg/Kg | | 100 | 70 - 130 | 6 | 35 |
| o-Xylene | | 0.100 | 0.1003 | | mg/Kg | | 100 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD | LCSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 890-3920-A-1-B MS

Matrix: Solid

Analysis Batch: 45131

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.101 | 0.08904 | | mg/Kg | | 88 | 70 - 130 | | |
| Toluene | <0.00202 | U | 0.101 | 0.08562 | | mg/Kg | | 85 | 70 - 130 | | |
| Ethylbenzene | <0.00202 | U | 0.101 | 0.08420 | | mg/Kg | | 84 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00403 | U | 0.202 | 0.1762 | | mg/Kg | | 87 | 70 - 130 | | |
| o-Xylene | <0.00202 | U | 0.101 | 0.08713 | | mg/Kg | | 86 | 70 - 130 | | |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

Lab Sample ID: 890-3920-A-1-C MSD

Matrix: Solid

Analysis Batch: 45131

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00202 | U | 0.0996 | 0.1028 | | mg/Kg | | 103 | 70 - 130 | 14 | 35 |
| Toluene | <0.00202 | U | 0.0996 | 0.08344 | | mg/Kg | | 84 | 70 - 130 | 3 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0996 | 0.07815 | | mg/Kg | | 78 | 70 - 130 | 7 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.199 | 0.1543 | | mg/Kg | | 77 | 70 - 130 | 13 | 35 |
| o-Xylene | <0.00202 | U | 0.0996 | 0.07563 | | mg/Kg | | 76 | 70 - 130 | 14 | 35 |

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 |

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

Lab Sample ID: MB 880-45214/1-A

Matrix: Solid

Analysis Batch: 45303

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45214

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-45214/1-A****Matrix: Solid****Analysis Batch: 45303****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45214**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| Surrogate | MB | MB | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 96 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |
| <i>o-Terphenyl</i> | 102 | | 70 - 130 | | | 02/01/23 15:22 | 02/03/23 09:09 | 1 |

Lab Sample ID: LCS 880-45214/2-A**Matrix: Solid****Analysis Batch: 45303****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45214**

| Analyte | Spike | | LCS | LCS | Unit | D | %Rec | %Rec |
|--------------------------------------|------------------|------------------|---------------|--------|------|----|----------|------|
| | Added | Result | Qualifier | Limits | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 861.4 | | mg/Kg | | 86 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 999 | 983.6 | | mg/Kg | | 98 | 70 - 130 | |
| Surrogate | LCS | LCS | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | | |
| <i>o-Terphenyl</i> | 84 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-45214/3-A**Matrix: Solid****Analysis Batch: 45303****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 45214**

| Analyte | Spike | | LCSD | LCSD | Unit | D | %Rec | %Rec | RPD |
|--------------------------------------|------------------|------------------|---------------|--------|------|----|----------|------|-----|
| | Added | Result | Qualifier | Limits | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 830.8 | | mg/Kg | | 83 | 70 - 130 | | 4 |
| Diesel Range Organics (Over C10-C28) | 999 | 938.1 | | mg/Kg | | 94 | 70 - 130 | | 5 |
| Surrogate | LCSD | LCSD | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | | | |
| <i>o-Terphenyl</i> | 84 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-3911-A-1-F MS**Matrix: Solid****Analysis Batch: 45303****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 45214**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|--------------------------------------|------------------|------------------|---------------|--------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 814.9 | | mg/Kg | | 78 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 1000 | 956.9 | | mg/Kg | | 94 | 70 - 130 |
| Surrogate | MS | MS | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 84 | | 70 - 130 | | | | | | |
| <i>o-Terphenyl</i> | 75 | | 70 - 130 | | | | | | |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-3911-A-1-G MSD****Matrix: Solid****Analysis Batch: 45303****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 45214**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----------|----|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 840.6 | | mg/Kg | | 81 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 972.0 | | mg/Kg | | 96 | 70 - 130 | 2 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits | | | | | | | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | | | | | |
| <i>o</i> -Terphenyl | 75 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-44795/1-A****Matrix: Solid****Analysis Batch: 45051****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 | | | 01/29/23 17:36 | 1 |

Lab Sample ID: LCS 880-44795/2-A**Matrix: Solid****Analysis Batch: 45051****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 250 | 249.3 | | mg/Kg | | 100 | 90 - 110 |

Lab Sample ID: LCSD 880-44795/3-A**Matrix: Solid****Analysis Batch: 45051****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
|----------|-------------|-------------|----------------|-------|---|------|----------|-----------|----|
| Chloride | 250 | 249.8 | | mg/Kg | | 100 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-3928-A-3-B MS**Matrix: Solid****Analysis Batch: 45051****Client Sample ID: Matrix Spike****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 8.18 | | 248 | 237.7 | | mg/Kg | | 93 | 90 - 110 |

Lab Sample ID: 890-3928-A-3-C MSD**Matrix: Solid****Analysis Batch: 45051****Client Sample ID: Matrix Spike Duplicate****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----------|----|
| Chloride | 8.18 | | 248 | 238.4 | | mg/Kg | | 93 | 90 - 110 | 0 | 20 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

GC VOA**Analysis Batch: 45131**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3927-1 | SW01 | Total/NA | Solid | 8021B | 45149 |
| 890-3927-2 | SW02 | Total/NA | Solid | 8021B | 45149 |
| 890-3927-3 | SW03 | Total/NA | Solid | 8021B | 45149 |
| 890-3927-4 | SW04 | Total/NA | Solid | 8021B | 45149 |
| 890-3927-5 | SW05 | Total/NA | Solid | 8021B | 45149 |
| 890-3927-6 | SW06 | Total/NA | Solid | 8021B | 45149 |
| MB 880-45146/5-A | Method Blank | Total/NA | Solid | 8021B | 45146 |
| MB 880-45149/5-A | Method Blank | Total/NA | Solid | 8021B | 45149 |
| LCS 880-45149/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45149 |
| LCSD 880-45149/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45149 |
| 890-3920-A-1-B MS | Matrix Spike | Total/NA | Solid | 8021B | 45149 |
| 890-3920-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 45149 |

Prep Batch: 45146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-45146/5-A | Method Blank | Total/NA | Solid | 5035 | 11 |

Prep Batch: 45149

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3927-1 | SW01 | Total/NA | Solid | 5035 | 13 |
| 890-3927-2 | SW02 | Total/NA | Solid | 5035 | 12 |
| 890-3927-3 | SW03 | Total/NA | Solid | 5035 | 13 |
| 890-3927-4 | SW04 | Total/NA | Solid | 5035 | 14 |
| 890-3927-5 | SW05 | Total/NA | Solid | 5035 | |
| 890-3927-6 | SW06 | Total/NA | Solid | 5035 | |
| MB 880-45149/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45149/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45149/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3920-A-1-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3920-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 45197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3927-1 | SW01 | Total/NA | Solid | Total BTEX | |
| 890-3927-2 | SW02 | Total/NA | Solid | Total BTEX | |
| 890-3927-3 | SW03 | Total/NA | Solid | Total BTEX | |
| 890-3927-4 | SW04 | Total/NA | Solid | Total BTEX | |
| 890-3927-5 | SW05 | Total/NA | Solid | Total BTEX | |
| 890-3927-6 | SW06 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 45214**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|-------------|------------|
| 890-3927-1 | SW01 | Total/NA | Solid | 8015NM Prep | |
| 890-3927-2 | SW02 | Total/NA | Solid | 8015NM Prep | |
| 890-3927-3 | SW03 | Total/NA | Solid | 8015NM Prep | |
| 890-3927-4 | SW04 | Total/NA | Solid | 8015NM Prep | |
| 890-3927-5 | SW05 | Total/NA | Solid | 8015NM Prep | |
| 890-3927-6 | SW06 | Total/NA | Solid | 8015NM Prep | |
| MB 880-45214/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

GC Semi VOA (Continued)**Prep Batch: 45214 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCS 880-45214/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-45214/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3911-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3911-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 45303

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3927-1 | SW01 | Total/NA | Solid | 8015B NM | 45214 |
| 890-3927-2 | SW02 | Total/NA | Solid | 8015B NM | 45214 |
| 890-3927-3 | SW03 | Total/NA | Solid | 8015B NM | 45214 |
| 890-3927-4 | SW04 | Total/NA | Solid | 8015B NM | 45214 |
| 890-3927-5 | SW05 | Total/NA | Solid | 8015B NM | 45214 |
| 890-3927-6 | SW06 | Total/NA | Solid | 8015B NM | 45214 |
| MB 880-45214/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45214 |
| LCS 880-45214/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45214 |
| LCSD 880-45214/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45214 |
| 890-3911-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 45214 |
| 890-3911-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 45214 |

Analysis Batch: 45447

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3927-1 | SW01 | Total/NA | Solid | 8015 NM | |
| 890-3927-2 | SW02 | Total/NA | Solid | 8015 NM | |
| 890-3927-3 | SW03 | Total/NA | Solid | 8015 NM | |
| 890-3927-4 | SW04 | Total/NA | Solid | 8015 NM | |
| 890-3927-5 | SW05 | Total/NA | Solid | 8015 NM | |
| 890-3927-6 | SW06 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 44795**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3927-1 | SW01 | Soluble | Solid | DI Leach | |
| 890-3927-2 | SW02 | Soluble | Solid | DI Leach | |
| 890-3927-3 | SW03 | Soluble | Solid | DI Leach | |
| 890-3927-4 | SW04 | Soluble | Solid | DI Leach | |
| 890-3927-5 | SW05 | Soluble | Solid | DI Leach | |
| 890-3927-6 | SW06 | Soluble | Solid | DI Leach | |
| MB 880-44795/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-44795/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-44795/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3928-A-3-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3928-A-3-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 45051

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-3927-1 | SW01 | Soluble | Solid | 300.0 | 44795 |
| 890-3927-2 | SW02 | Soluble | Solid | 300.0 | 44795 |
| 890-3927-3 | SW03 | Soluble | Solid | 300.0 | 44795 |
| 890-3927-4 | SW04 | Soluble | Solid | 300.0 | 44795 |
| 890-3927-5 | SW05 | Soluble | Solid | 300.0 | 44795 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

HPLC/IC (Continued)**Analysis Batch: 45051 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3927-6 | SW06 | Soluble | Solid | 300.0 | 44795 |
| MB 880-44795/1-A | Method Blank | Soluble | Solid | 300.0 | 44795 |
| LCS 880-44795/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 44795 |
| LCSD 880-44795/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 44795 |
| 890-3928-A-3-B MS | Matrix Spike | Soluble | Solid | 300.0 | 44795 |
| 890-3928-A-3-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 44795 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Client Sample ID: SW01

Date Collected: 01/19/23 13:55

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-1

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 | | | 4.99 g | 5 mL | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 05:35 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45197 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45447 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 17:35 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 44795 | 01/26/23 08:36 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45051 | 01/29/23 18:19 | CH | EET MID |

Client Sample ID: SW02

Date Collected: 01/19/23 14:10

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-2

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 | | | 5.02 g | 5 mL | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 05:55 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45197 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45447 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 17:56 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 44795 | 01/26/23 08:36 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45051 | 01/29/23 18:25 | CH | EET MID |

Client Sample ID: SW03

Date Collected: 01/19/23 14:15

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-3

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 | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 06:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45197 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45447 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 18:17 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 44795 | 01/26/23 08:36 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45051 | 01/29/23 18:31 | CH | EET MID |

Client Sample ID: SW04

Date Collected: 01/19/23 14:20

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 06:36 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45197 | 02/01/23 12:31 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
 SDG: 03D2057047

Client Sample ID: SW04

Date Collected: 01/19/23 14:20

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 45447 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 18:38 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44795 | 01/26/23 08:36 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45051 | 01/29/23 18:50 | CH | EET MID |

Client Sample ID: SW05

Date Collected: 01/19/23 14:40

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 06:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45197 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45447 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 18:58 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44795 | 01/26/23 08:36 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45051 | 01/29/23 18:56 | CH | EET MID |

Client Sample ID: SW06

Date Collected: 01/19/23 14:50

Date Received: 01/23/23 16:24

Lab Sample ID: 890-3927-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 45149 | 01/31/23 14:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45131 | 02/01/23 07:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45197 | 02/01/23 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45447 | 02/04/23 09:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45214 | 02/01/23 15:22 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45303 | 02/03/23 19:19 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 44795 | 01/26/23 08:36 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45051 | 01/29/23 19:02 | 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: Jalmat Yates Sant Unit 170

Job ID: 890-3927-1
SDG: 03D2057047

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 | T104704400-22-25 | 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

Eurofins Carlsbad

Method Summary

Client: Ensolum

Job ID: 890-3927-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Job ID: 890-3927-1

Project/Site: Jalmat Yates Sant Unit 170

SDG: 03D2057047

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|----------|
| 890-3927-1 | SW01 | Solid | 01/19/23 13:55 | 01/23/23 16:24 | 0-2' |
| 890-3927-2 | SW02 | Solid | 01/19/23 14:10 | 01/23/23 16:24 | 0-2' |
| 890-3927-3 | SW03 | Solid | 01/19/23 14:15 | 01/23/23 16:24 | 0-2.5' |
| 890-3927-4 | SW04 | Solid | 01/19/23 14:20 | 01/23/23 16:24 | 0-2' |
| 890-3927-5 | SW05 | Solid | 01/19/23 14:40 | 01/23/23 16:24 | 0.5-2.5' |
| 890-3927-6 | SW06 | Solid | 01/19/23 14:50 | 01/23/23 16:24 | 0.5'-2.5 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Chain of Custody

Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3343
El Paso, TX (915) 585-3343, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

| | | | |
|-------------------------|-------------------------------|-------------------------|---|
| Project Manager: | Hadlie Green | 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: | 432-557-8895 | Email: | kjennings@ensolum.com , hgreen@ensolum.com |

www.xenco.com Page _____ of _____

| | | ANALYSIS REQUEST | | | |
|--|---|--|-------------------------------|------------|--|
| Project Name: | Jalmat Yates Sant Unit 170 | Turn Around | | | |
| Project Number: | 03D2057047 | <input checked="" type="checkbox"/> Routine | <input type="checkbox"/> Rush | Pres. Code | |
| Project Location: | Lea | Due Date: | | | |
| Sampler's Name: | Peter Van Patten | 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 | Parameters | | |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID: NVN-807 | | | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A | Correction Factor: -0.3 | | | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A | Temperature Reading: 2.3 | | | |
| Total Containers: | | Corrected Temperature: 2.0 | | | |
| PRIDES (EPA: 300.0) | | | | | |
| 8015) | | | | | |
| (8021) | | | | | |
|  890-3927 Chain of Custody | | | | | |

| Preservative Codes | |
|--|----------------------------|
| ne: NO | D1 Water: H ₂ O |
| ol: Cool | MeOH: Me |
| HL: HC | HNO ₃ : HN |
| SO ₄ : H ₂ | NaOH: Na |
| PO ₄ : HP | |
| H ₂ SO ₄ : NABIS | |
| H ₂ SO ₃ : NASO ₃ | |
| Acetate+NaOH: Zn | |
| OH+Ascorbic Acid: SAPC | |

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed

1

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM | Texas 11 A| Sb As Ba Be B Cd Ca Cr Co Cu Fe Ho Mg Mn Mo Ni R Se Ag SiO₂ Na Si Ti U Vg
Circle Method(s) and Metal(s) to be analyzed TLCP / 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.

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM | Texas 11 A| Sb As Ba Be B Cd Ca Cr Co Cu Fe Ho Mg Mn Mo Ni R Se Ag SiO₂ Na Si Ti U Vg
Circle Method(s) and Metal(s) to be analyzed TLCP / 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.

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3927-1

SDG Number: 03D2057047

Login Number: 3927**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3927-1

SDG Number: 03D2057047

Login Number: 3927**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 01/25/23 12:13 PM**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/15/2023 7:57:49 AM

JOB DESCRIPTION

Jalmat 170

JOB NUMBER

890-4060-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/15/2023 7:57:49 AM

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

Client: Ensolum
Project/Site: Jalmat 170

Laboratory Job ID: 890-4060-1

Table of Contents

| | |
|------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 8 |
| QC Sample Results | 9 |
| QC Association Summary | 14 |
| Lab Chronicle | 16 |
| Certification Summary | 17 |
| Method Summary | 18 |
| Sample Summary | 19 |
| Chain of Custody | 20 |
| Receipt Checklists | 21 |

Definitions/Glossary

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Qualifiers**GC VOA**

| Qualifier | Qualifier Description |
|-----------|---|
| *- | LCS and/or LCSD is outside acceptance 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, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | 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: Jalmat 170

Job ID: 890-4060-1

Job ID: 890-4060-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4060-1****Receipt**

The samples were received on 2/8/2023 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS13A (890-4060-1) and SW07 (890-4060-2).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-46016 and analytical batch 880-46059 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW07 (890-4060-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-46093 and analytical batch 880-46267 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-4070-A-1-E MS) and (890-4070-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW07 (890-4060-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Client Sample ID: FS14A
Date Collected: 02/07/23 12:13
Date Received: 02/08/23 14:56
Sample Depth: 1.25'

Lab Sample ID: 890-4060-1
Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:20 | | 1 |
| Toluene | <0.00198 | U *- | 0.00198 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:20 | | 1 |
| Ethylbenzene | <0.00198 | U *- | 0.00198 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:20 | | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:20 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:20 | | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:20 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 121 | | 70 - 130 | | 02/10/23 14:55 | 02/12/23 00:20 | 1 |
| 1,4-Difluorobenzene (Surr) | | 108 | | 70 - 130 | | 02/10/23 14:55 | 02/12/23 00:20 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 02/13/23 19:39 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/15/23 08:41 | 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 | 02/13/23 09:09 | 02/14/23 19:06 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 02/13/23 09:09 | 02/14/23 19:06 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 02/13/23 09:09 | 02/14/23 19:06 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | 70 | 70 - 130 | | | 02/13/23 09:09 | 02/14/23 19:06 | 1 |
| o-Terphenyl | | 70 | 70 - 130 | | | 02/13/23 09:09 | 02/14/23 19:06 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 84.1 | | 4.95 | mg/Kg | | | 02/14/23 10:41 | 1 |

Client Sample ID: SW07**Lab Sample ID: 890-4060-2**

Date Collected: 02/07/23 12:10

Matrix: Solid

Date Received: 02/08/23 14:56

Sample Depth: 0-2.5'

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 | 02/10/23 14:55 | 02/12/23 00:41 | | 1 |
| Toluene | <0.00200 | U *- | 0.00200 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:41 | | 1 |
| Ethylbenzene | <0.00200 | U *- | 0.00200 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:41 | | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:41 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:41 | | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | 02/10/23 14:55 | 02/12/23 00:41 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 123 | | 70 - 130 | | 02/10/23 14:55 | 02/12/23 00:41 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Client Sample ID: SW07
Date Collected: 02/07/23 12:10
Date Received: 02/08/23 14:56
Sample Depth: 0-2.5'

Lab Sample ID: 890-4060-2
Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | 02/10/23 14:55 | 02/12/23 00:41 | 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 | | | 02/13/23 19:39 | 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 | | | 02/15/23 08:41 | 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 | | 02/13/23 09:09 | 02/14/23 19:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/13/23 09:09 | 02/14/23 19:29 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/13/23 09:09 | 02/14/23 19:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 65 | S1- | 70 - 130 | 02/13/23 09:09 | 02/14/23 19:29 | 1 |
| o-Terphenyl | 69 | S1- | 70 - 130 | 02/13/23 09:09 | 02/14/23 19:29 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 79.8 | | 4.99 | mg/Kg | | | 02/14/23 10:55 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) | | | | | | | | | | |
|----------------------|-------------------------|--------------------------|---------------------------|--|--|--|--|--|--|--|--|--|--|
| 820-7364-A-1-B MS | Matrix Spike | 121 | 104 | | | | | | | | | | |
| 820-7364-A-1-C MSD | Matrix Spike Duplicate | 115 | 106 | | | | | | | | | | |
| 890-4047-A-1-C MS | Matrix Spike | 113 | 112 | | | | | | | | | | |
| 890-4047-A-1-D MSD | Matrix Spike Duplicate | 109 | 112 | | | | | | | | | | |
| 890-4060-1 | FS13A | 121 | 108 | | | | | | | | | | |
| 890-4060-2 | SW07 | 123 | 108 | | | | | | | | | | |
| LCS 880-46016/1-A | Lab Control Sample | 108 | 110 | | | | | | | | | | |
| LCS 880-46019/1-A | Lab Control Sample | 114 | 102 | | | | | | | | | | |
| LCSD 880-46016/2-A | Lab Control Sample Dup | 114 | 110 | | | | | | | | | | |
| LCSD 880-46019/2-A | Lab Control Sample Dup | 109 | 104 | | | | | | | | | | |
| MB 880-46016/5-A | Method Blank | 111 | 105 | | | | | | | | | | |
| MB 880-46019/5-A | Method Blank | 74 | 95 | | | | | | | | | | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | | |
|----------------------|-------------------------|--------------------------|---------------------------|--|--|--|--|--|--|--|--|--|--|
| 890-4060-1 | FS13A | 70 | 70 | | | | | | | | | | |
| 890-4060-2 | SW07 | 65 S1- | 69 S1- | | | | | | | | | | |
| 890-4070-A-1-E MS | Matrix Spike | 18 S1- | 11 S1- | | | | | | | | | | |
| 890-4070-A-1-E MSD | Matrix Spike Duplicate | 18 S1- | 11 S1- | | | | | | | | | | |
| LCS 880-46093/2-A | Lab Control Sample | 113 | 120 | | | | | | | | | | |
| LCSD 880-46093/3-A | Lab Control Sample Dup | 119 | 125 | | | | | | | | | | |
| MB 880-46093/1-A | Method Blank | 67 S1- | 74 | | | | | | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-46016/5-A****Matrix: Solid****Analysis Batch: 46059****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 46016**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|----------------|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | 02/10/23 14:55 | 02/11/23 16:15 | | 1 | | |

Lab Sample ID: LCS 880-46016/1-A**Matrix: Solid****Analysis Batch: 46059****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 46016**

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.07008 | | mg/Kg | 70 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.06866 | *- | mg/Kg | 69 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.06746 | *- | mg/Kg | 67 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.1444 | | mg/Kg | 72 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.07197 | | mg/Kg | 72 | 70 - 130 | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | | | | | | | |

Lab Sample ID: LCSD 880-46016/2-A**Matrix: Solid****Analysis Batch: 46059****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 46016**

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.07747 | | mg/Kg | 77 | 70 - 130 | | 10 | 35 | | |
| Toluene | 0.100 | 0.07237 | | mg/Kg | 72 | 70 - 130 | | 5 | 35 | | |
| Ethylbenzene | 0.100 | 0.07187 | | mg/Kg | 72 | 70 - 130 | | 6 | 35 | | |
| m-Xylene & p-Xylene | 0.200 | 0.1528 | | mg/Kg | 76 | 70 - 130 | | 6 | 35 | | |
| o-Xylene | 0.100 | 0.07577 | | mg/Kg | 76 | 70 - 130 | | 5 | 35 | | |
| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-4047-A-1-C MS**Matrix: Solid****Analysis Batch: 46059****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 46016**

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|--------|-----------|--------|-----------|------|----------|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00201 | U | 0.0990 | 0.1079 | | mg/Kg | | 109 | 70 - 130 | | |
| Toluene | <0.00201 | U *- | 0.0990 | 0.1062 | | mg/Kg | | 107 | 70 - 130 | | |

Eurofins Carlsbad

QC Sample ResultsClient: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-4047-A-1-C MS****Matrix: Solid****Analysis Batch: 46059****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 46016**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits |
|---------------------|----------|-----------|--------|--------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00201 | U * | 0.0990 | 0.1065 | | mg/Kg | | 108 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.198 | 0.2259 | | mg/Kg | | 114 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.0990 | 0.1081 | | mg/Kg | | 109 | 70 - 130 |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

Lab Sample ID: 890-4047-A-1-D MSD**Matrix: Solid****Analysis Batch: 46059****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 46016**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|----------|-----------|--------|--------|-----------|-------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00201 | U | 0.0998 | 0.1140 | | mg/Kg | | 114 | 70 - 130 | 6 | 35 |
| Toluene | <0.00201 | U * | 0.0998 | 0.1074 | | mg/Kg | | 108 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00201 | U * | 0.0998 | 0.1067 | | mg/Kg | | 107 | 70 - 130 | 0 | 35 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.200 | 0.2247 | | mg/Kg | | 113 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00201 | U | 0.0998 | 0.1069 | | mg/Kg | | 107 | 70 - 130 | 1 | 35 |

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

Lab Sample ID: MB 880-46019/5-A**Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 46019**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 15:02 | 02/12/23 14:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 15:02 | 02/12/23 14:31 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 15:02 | 02/12/23 14:31 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/10/23 15:02 | 02/12/23 14:31 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 15:02 | 02/12/23 14:31 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/10/23 15:02 | 02/12/23 14:31 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | | | |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | |

Lab Sample ID: LCS 880-46019/1-A**Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 46019**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits |
|---------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| Benzene | 0.100 | 0.1043 | | mg/Kg | | 104 | 70 - 130 |
| Toluene | 0.100 | 0.1031 | | mg/Kg | | 103 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1072 | | mg/Kg | | 107 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2306 | | mg/Kg | | 115 | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCS 880-46019/1-A****Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 46019**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | RPD |
|-----------------------------|-------------|---------------|---------------|-------|-----|----------|-----|
| o-Xylene | 0.100 | 0.1142 | | mg/Kg | 114 | 70 - 130 | |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | Limits | |
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-46019/2-A**Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 46019**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD |
|-----------------------------|-------------|----------------|----------------|-------|-----|----------|-------|
| Benzene | 0.100 | 0.1134 | | mg/Kg | 113 | 70 - 130 | 8 |
| Toluene | 0.100 | 0.1048 | | mg/Kg | 105 | 70 - 130 | 2 |
| Ethylbenzene | 0.100 | 0.1094 | | mg/Kg | 109 | 70 - 130 | 2 |
| m-Xylene & p-Xylene | 0.200 | 0.2311 | | mg/Kg | 116 | 70 - 130 | 0 |
| o-Xylene | 0.100 | 0.1138 | | mg/Kg | 114 | 70 - 130 | 0 |
| Surrogate | %Recovery | LCSD Qualifier | Limits | | | Limits | Limit |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | | |

Lab Sample ID: 820-7364-A-1-B MS**Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 46019**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|-----|----------|
| Benzene | <0.00201 | U | 0.0996 | 0.09111 | | mg/Kg | 91 | 70 - 130 |
| Toluene | <0.00201 | U | 0.0996 | 0.09028 | | mg/Kg | 91 | 70 - 130 |
| Ethylbenzene | <0.00201 | U | 0.0996 | 0.09883 | | mg/Kg | 98 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.199 | 0.2130 | | mg/Kg | 106 | 70 - 130 |
| o-Xylene | 0.00207 | | 0.0996 | 0.1063 | | mg/Kg | 105 | 70 - 130 |
| Surrogate | %Recovery | Qualifier | Limits | | | | | Limits |
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | | | |

Lab Sample ID: 820-7364-A-1-C MSD**Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 46019**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|-----|----------|-------|
| Benzene | <0.00201 | U | 0.0996 | 0.1013 | | mg/Kg | 102 | 70 - 130 | 11 |
| Toluene | <0.00201 | U | 0.0996 | 0.1036 | | mg/Kg | 104 | 70 - 130 | 14 |
| Ethylbenzene | <0.00201 | U | 0.0996 | 0.1085 | | mg/Kg | 108 | 70 - 130 | 9 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.199 | 0.2331 | | mg/Kg | 116 | 70 - 130 | 9 |
| o-Xylene | 0.00207 | | 0.0996 | 0.1158 | | mg/Kg | 114 | 70 - 130 | 9 |
| Surrogate | %Recovery | Qualifier | Limits | | | | | Limits | Limit |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 820-7364-A-1-C MSD****Matrix: Solid****Analysis Batch: 46073****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 46019**

| Surrogate | MSD | MSD | |
|-----------------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-46093/1-A****Matrix: Solid****Analysis Batch: 46267****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 46093**

| Analyte | MB | MB | | | | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|---------------|------------------|-----------|-------------|--|----------------|-----------------|-----------------|----------------|
| | Result | Qualifier | RL | Unit | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/13/23 09:09 | 02/14/23 09:07 | 1 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/13/23 09:09 | 02/14/23 09:07 | 1 | |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/13/23 09:09 | 02/14/23 09:07 | 1 | |

| Surrogate | MB | MB | | | | Prepared | Analyzed | Dil Fac |
|------------------|------------------|------------------|---------------|--|--|-----------------|-----------------|----------------|
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 67 | S1- | 70 - 130 | | | 02/13/23 09:09 | 02/14/23 09:07 | 1 |
| o-Terphenyl | 74 | | 70 - 130 | | | 02/13/23 09:09 | 02/14/23 09:07 | 1 |

Lab Sample ID: LCS 880-46093/2-A**Matrix: Solid****Analysis Batch: 46267****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 46093**

| Analyte | | Spike | LCS | LCS | | %Rec | |
|--------------------------------------|--|--------------|---------------|------------------|-------------|-------------|---------------|
| | | Added | Result | Qualifier | Unit | D | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 1119 | | mg/Kg | 112 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 1133 | | mg/Kg | 113 | 70 - 130 |

| Surrogate | LCS | LCS | | | | Prepared | Analyzed | Dil Fac |
|------------------|------------------|------------------|---------------|--|--|-----------------|-----------------|----------------|
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 113 | | 70 - 130 | | | | | |
| o-Terphenyl | 120 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-46093/3-A**Matrix: Solid****Analysis Batch: 46267****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 46093**

| Analyte | | Spike | LCSD | LCSD | | %Rec | |
|--------------------------------------|--|--------------|---------------|------------------|-------------|-------------|---------------|
| | | Added | Result | Qualifier | Unit | D | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 1161 | | mg/Kg | 116 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 1124 | | mg/Kg | 112 | 70 - 130 |

| Surrogate | LCSD | LCSD | | | | Prepared | Analyzed | RPD | Limit |
|------------------|------------------|------------------|---------------|--|--|-----------------|-----------------|------------|--------------|
| | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 119 | | 70 - 130 | | | | | 4 | 20 |
| o-Terphenyl | 125 | | 70 - 130 | | | | | 1 | 20 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

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

Lab Sample ID: 890-4070-A-1-E MS

Matrix: Solid

Analysis Batch: 46267

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46093

| Surrogate | MS | MS | %Recovery | Qualifier | Limits |
|---------------------|----|----|-----------|-----------|----------|
| 1-Chlorooctane | | | 18 | S1- | 70 - 130 |
| <i>o</i> -Terphenyl | | | 11 | S1- | 70 - 130 |

Lab Sample ID: 890-4070-A-1-E MSD

Matrix: Solid

Analysis Batch: 46267

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46093

| Surrogate | MSD | MSD | %Recovery | Qualifier | Limits |
|---------------------|-----|-----|-----------|-----------|----------|
| 1-Chlorooctane | | | 18 | S1- | 70 - 130 |
| <i>o</i> -Terphenyl | | | 11 | S1- | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46036/1-A

Matrix: Solid

Analysis Batch: 46293

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----|----|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | | | <5.00 | U | 5.00 | mg/Kg | | | 02/14/23 10:27 | 1 |

Lab Sample ID: LCS 880-46036/2-A

Matrix: Solid

Analysis Batch: 46293

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits |
|----------|-------|-----|-------|--------|-----------|-------|---|------|----------|
| Chloride | | | Added | 240.9 | | mg/Kg | | 96 | 90 - 110 |

Lab Sample ID: LCSD 880-46036/3-A

Matrix: Solid

Analysis Batch: 46293

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | RPD | Limit |
|----------|-------|------|-------|--------|-----------|-------|---|------|----------|-------|
| Chloride | | | Added | 238.9 | | mg/Kg | | 96 | 90 - 110 | 1 |

Lab Sample ID: 890-4060-1 MS

Matrix: Solid

Analysis Batch: 46293

Client Sample ID: FS13A

Prep Type: Soluble

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec |
|----------|--------|-----------|-------|--------|-----------|--------|-----------|-------|----|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | mg/Kg | | Limits |
| Chloride | | | 84.1 | 248 | | 317.4 | | mg/Kg | 94 | 90 - 110 |

Lab Sample ID: 890-4060-1 MSD

Matrix: Solid

Analysis Batch: 46293

Client Sample ID: FS13A

Prep Type: Soluble

| Analyte | Sample | Sample | Spike | MSD | MSD | Result | Qualifier | Unit | D | %Rec |
|----------|--------|-----------|-------|--------|-----------|--------|-----------|-------|----|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | mg/Kg | | RPD |
| Chloride | | | 84.1 | 248 | | 315.1 | | mg/Kg | 93 | 90 - 110 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

GC VOA**Prep Batch: 46016**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4060-1 | FS13A | Total/NA | Solid | 5035 | |
| 890-4060-2 | SW07 | Total/NA | Solid | 5035 | |
| MB 880-46016/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-46016/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-46016/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4047-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-4047-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 46019

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-46019/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-46019/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-46019/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 820-7364-A-1-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 820-7364-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 46059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4060-1 | FS13A | Total/NA | Solid | 8021B | 46016 |
| 890-4060-2 | SW07 | Total/NA | Solid | 8021B | 46016 |
| MB 880-46016/5-A | Method Blank | Total/NA | Solid | 8021B | 46016 |
| LCS 880-46016/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 46016 |
| LCSD 880-46016/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 46016 |
| 890-4047-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 46016 |
| 890-4047-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 46016 |

Analysis Batch: 46073

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-46019/5-A | Method Blank | Total/NA | Solid | 8021B | 46019 |
| LCS 880-46019/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 46019 |
| LCSD 880-46019/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 46019 |
| 820-7364-A-1-B MS | Matrix Spike | Total/NA | Solid | 8021B | 46019 |
| 820-7364-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 46019 |

Analysis Batch: 46246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4060-1 | FS13A | Total/NA | Solid | Total BTEX | |
| 890-4060-2 | SW07 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 46093**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-4060-1 | FS13A | Total/NA | Solid | 8015NM Prep | |
| 890-4060-2 | SW07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-46093/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-46093/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-46093/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-4070-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-4070-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

GC Semi VOA**Analysis Batch: 46267**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4060-1 | FS13A | Total/NA | Solid | 8015B NM | 46093 |
| 890-4060-2 | SW07 | Total/NA | Solid | 8015B NM | 46093 |
| MB 880-46093/1-A | Method Blank | Total/NA | Solid | 8015B NM | 46093 |
| LCS 880-46093/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 46093 |
| LCSD 880-46093/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 46093 |
| 890-4070-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 46093 |
| 890-4070-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 46093 |

Analysis Batch: 46360

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4060-1 | FS13A | Total/NA | Solid | 8015 NM | 9 |
| 890-4060-2 | SW07 | Total/NA | Solid | 8015 NM | 10 |

HPLC/IC**Leach Batch: 46036**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4060-1 | FS13A | Soluble | Solid | DI Leach | 12 |
| 890-4060-2 | SW07 | Soluble | Solid | DI Leach | 13 |
| MB 880-46036/1-A | Method Blank | Soluble | Solid | DI Leach | 14 |
| LCS 880-46036/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-46036/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4060-1 MS | FS13A | Soluble | Solid | DI Leach | |
| 890-4060-1 MSD | FS13A | Soluble | Solid | DI Leach | |

Analysis Batch: 46293

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4060-1 | FS13A | Soluble | Solid | 300.0 | 46036 |
| 890-4060-2 | SW07 | Soluble | Solid | 300.0 | 46036 |
| MB 880-46036/1-A | Method Blank | Soluble | Solid | 300.0 | 46036 |
| LCS 880-46036/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 46036 |
| LCSD 880-46036/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 46036 |
| 890-4060-1 MS | FS13A | Soluble | Solid | 300.0 | 46036 |
| 890-4060-1 MSD | FS13A | Soluble | Solid | 300.0 | 46036 |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

Client Sample ID: FS14A
Date Collected: 02/07/23 12:13
Date Received: 02/08/23 14:56

Lab Sample ID: 890-4060-1
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 | | | 5.05 g | 5 mL | 46016 | 02/10/23 14:55 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46059 | 02/12/23 00:20 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46246 | 02/13/23 19:39 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46360 | 02/15/23 08:41 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 46093 | 02/13/23 09:09 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46267 | 02/14/23 19:06 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 46036 | 02/10/23 16:44 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46293 | 02/14/23 10:41 | CH | EET MID |

Client Sample ID: SW07
Date Collected: 02/07/23 12:10
Date Received: 02/08/23 14:56

Lab Sample ID: 890-4060-2
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 | 46016 | 02/10/23 14:55 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46059 | 02/12/23 00:41 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46246 | 02/13/23 19:39 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46360 | 02/15/23 08:41 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 46093 | 02/13/23 09:09 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46267 | 02/14/23 19:29 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 46036 | 02/10/23 16:44 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46293 | 02/14/23 10:55 | 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: Jalmat 170

Job ID: 890-4060-1

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 | T104704400-22-25 | 06-30-23 |

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

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

Method Summary

Client: Ensolum
 Project/Site: Jalmat 170

Job ID: 890-4060-1

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: Jalmat 170

Job ID: 890-4060-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|--------|
| 890-4060-1 | FS13A | Solid | 02/07/23 12:13 | 02/08/23 14:56 | 1' |
| 890-4060-2 | SW07 | Solid | 02/07/23 12:10 | 02/08/23 14:56 | 0-2.5' |

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

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


Environment Testing
Xenco

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

Chain of Custody

Work Order No.: _____

www.xenco.com Page 1 of 1

| | | | | | |
|------------------|-------------------------------|--|-------------------------|---|--|
| Project Manager: | Hadlie Green | | 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: | 432-557-6895 | | Email: | kjemings@ensolum.com, hggreen@ensolum.com | |

| ANALYSIS REQUEST | | | | | | Preservative Codes | | |
|--------------------------|---------------------|-----|---|------------|---------|--|---|----------------------------|
| Project Number: | JATUMAT 17D | | Turn Around | Prep. Code | Routine | <input checked="" type="checkbox"/> Rush | None: NO | DI Water: H ₂ O |
| Project Location: | | | Due Date: | 5/04/24 | | | Cool: Cool | HCl: HC |
| Sampler's Name: | Hadlie Green | | TAT starts the day received by the lab, if received by 4:30pm | | | | H ₂ SO ₄ : H ₂ | NaOH: Na |
| PO #: | | | Temp/Blank: | Yes | No | Thermometer ID: | H ₃ PO ₄ : HP | |
| SAMPLE RECEIPT | Temp/Blank: | Yes | No | Wet Ice: | Yes | Correction Factor: | NaHSO ₄ ; NaBIS | |
| Samples Received Intact: | (Yes) No | | | | | Temperature Reading: | Na ₂ S ₂ O ₃ ; NaSO ₃ | |
| Cooler Custody Seals: | Yes | No | (N/A) | | | Corrected Temperature: | Zn Acetate+NaOH; Zn | |
| Sample Custody Seals: | Yes | No | (N/A) | | | | NaOH+Ascorbic Acid: SACP | |
| Total Containers: | | | | | | | | |

| Parameters | | | | | |
|--|------|-----|------|----------|-----|
| PH | 8015 | BTX | 8021 | CHLORIDE | 300 |
|  890-4060 Chain of Custody | | | | | |

| Sample Comments | | | | | |
|-----------------|--|--|--|--|--|
| Q - 402 | | | | | |

| | | | | | |
|--|--|---------------|-------|-------|--|
| Total | 200.7 / 6010 | 200.8 / 6020: | 8RCRA | 13PPM | Texas 11 A) Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ 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.

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4060-1

Login Number: 4060**List Source: Eurofins Carlsbad****List Number: 1****Creator: Stutzman, Amanda****Question****Answer****Comment**

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4060-1

Login Number: 4060**List Source: Eurofins Midland****List Number: 2****List Creation: 02/10/23 11:50 AM****Creator: Rodriguez, Leticia**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | N/A | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | | |



APPENDIX D

Final C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

| | |
|----------------|----------------|
| Incident ID | NAPP2233946698 |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|---|---|
| Responsible Party: Maverick Permian, LLC | OGRID: 331199 |
| Contact Name: Bryce Wagoner | Contact Telephone: 928-241-1862 |
| Contact email: Bryce.Wagoner@mavresources.com | Incident # (assigned by OCD) NAPP2233946698 |
| Contact mailing address: 1410 NW County Road Hobbs, NM 88240 | |

Location of Release Source

Latitude 32.39512 _____ Longitude -103.33486 _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|-----------------------------------|
| Site Name Jalmat Yates Sand Unit 170 | Site Type |
| Date Release Discovered November 20, 2022 | API# (if applicable) 30-025-35262 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| H | 14 | 22S | 35E | Lea |

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

| | | |
|--|--|---|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 1.92 bbls | Volume Recovered (bbls) 0 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 7.7 bbls | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

The release was caused by a flowline rupture due to possible inner corrosion. The release occurred off pad. The source of the release has been stopped and the impacted area has been secured. Initial response and removal of saturated soil from the release area has been completed.

| | |
|----------------|----------------|
| Incident ID | NAPP2233946698 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Initial Response

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

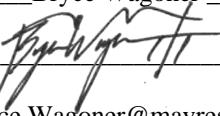
- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Bryce Wagoner _____ Title: _____ Permian HSE Specialist II _____

Signature:  Date: _____ 11/30/2022 _____

email: _____ Bryce.Wagoner@mavresources.com _____ Telephone: _____ 928-241-1862 _____

OCD Only

Received by: _____ Date: _____

NAPP2233946698

| Pooled Fluids on the Surface | | | | | | | | | | |
|------------------------------|-----------------|----------------|---------------|--|------------------------|-----------------------------------|--|-------------------------|---|---|
| | Length (ft.) | Width (ft.) | Depth (in) | # of Boundaries <i>*edges of pool where depth is 0. don't count shared boundaries</i> | Oil-Water Ratio (%) | Pooled Area (ft ²) | Estimated Average Depth (ft.) | Pooled Volume (bbl.) | Volume of Oil in Subsurface (bbl.) | Volume of Water in Subsurface (bbl.) |
| Rectangle A | | | | | 0.01 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle B | | | | | 0.01 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle C | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle D | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle E | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Total Volume (bbls): | | | | | | | 0.00 | 0.00 | 0.00 | |

| Subsurface Fluids | | | | | | | | | | |
|----------------------|-----------------|----------------|----------------|--|------------------------|----------------------------|------------------|--|---|---|
| | Length (ft.) | Width (ft.) | Depth (in.) | Saturation (%) <i>*10% in consolidated sediments after rain to 50% in sand with no precipitation</i> | Oil-Water Ratio (%) | Area (ft ²) | Volume (bbl.) | Estimated Volume in Subsurface (bbl.) | Volume of Oil in Subsurface (bbl.) | Volume of Water in Subsurface (bbl.) |
| Rectangle A | 90.0 | 90.0 | 1.0 | 0.1 | 0.20 | 8100.0 | 120.2 | 9.6 | 1.92 | 7.7 |
| Rectangle B | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle C | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle D | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle E | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle F | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle G | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle H | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle I | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle J | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Total Volume (bbls): | | | | | | | 9.61 | 1.92 | 7.69 | |

TOTAL RELEASE VOLUME (bbls): **9.6**

| | |
|----------------|----------------|
| Incident ID | NAPP2233946698 |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

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

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

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

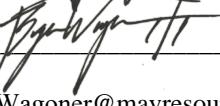
- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the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

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

| | |
|----------------|----------------|
| Incident ID | NAPP2233946698 |
| District RP | |
| Facility ID | |
| Application ID | |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Bryce Wagoner Title: Permian HSE Specialist II

Signature:  Date: 02/16/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon Date: 02/17/2023

| | |
|----------------|----------------|
| Incident ID | NAPP2233946698 |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

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

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

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

Printed Name: Bryce Wagoner

Title: Permian HSE Specialist II

Signature: 

Date: 02/16/2023

email: Bryce.Wagoner@mavresources.com

Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon

Date: 02/21/2023

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

Closure Approved by: Jennifer Nobui

Date: 03/01/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



APPENDIX E

NMOCD Notifications

Joe Gable

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, December 8, 2022 9:22 AM
To: Kalei Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 12/12/2022)

[**EXTERNAL EMAIL**]

Thank you for the notification. Please 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.

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, December 7, 2022 4:46 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 12/12/2022)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of December 12, 2022.

- Jalmat 170/ NAPP2233946698
- SEMU Eumont 117 / NAPP2231946665
- EVGSAU 2418-001 / NAPP2231954757

Thank you,



Kalei Jennings
Senior Scientist
817-683-2503
Ensolum, LLC
in f

Joe Gable

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, December 30, 2022 11:41 AM
To: Kalei Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 01/02/2023)

[**EXTERNAL EMAIL**]

Good morning Kalei,

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Thank you,
Jocelyn

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Friday, December 30, 2022 10:25 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hadlie Green <hgreen@ensolum.com>; Josh Adams <jadams@ensolum.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 01/02/2023)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of January 2, 2023.

- Ruby Federal/ NAPP2231448981
- SEMU Eumont 117/ NAPP2231946665
- Oxy State F-1 / NAPP2235375291
- Jalmat 170 / NAPP2233946698
- Baish B Battery / NAPP2235372941

Joe Gable

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, January 12, 2023 9:34 AM
To: Kalei Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 01/16/2023)

[**EXTERNAL EMAIL**]

Kalei,

Thank you for the notification. Please 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.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, January 11, 2023 5:25 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 01/16/2023)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of January 16, 2023.

- Oxy State F-1 / NAPP2235375291
- Jalmat 188 / NAPP2235373931
- Jalmat 170 / NAPP2233946698
- MCA 151 / NAPP2235377174
- EVGSAU 2418-001 / NAPP2231954757
- Buckeye 43-01 / NAPP2230752440
- Leamex 018 / NAPP2234158858
-

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 187691

CONDITIONS

| | |
|--|---|
| Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002 | OGRID: 331199 |
| | Action Number: 187691 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--------------------------|----------------|
| jnobui | Closure Report Approved. | 3/1/2023 |