

July 20, 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

Warbler State Com 002Y

Incident Number NAPP2313130641

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Warbler State Com 002Y (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from an overspray release of crude oil and produced water at the Site. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number NAPP2313130641.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 28, Township 21 South, Range 33 East, in Lea County, New Mexico (32.4565°, -103.5795°) and is associated with oil and gas exploration and production operations on private land managed by Merchant Livestock Company.

On April 27, 2023, a dump valve failed, sending fluid out of the flare and causing an overspray release of approximately 3.924 barrels (bbls) of crude oil and 1.68 barrels (bbls) of produced water onto the well pad and surrounding pasture. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 11, 2023. The release was assigned Incident Number NAPP2313130641.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for 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 United States Geological Survey (USGS) well 322702103344001, located approximately 0.2 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 178.85 feet bgs and a total depth of 224 feet bgs. Ground surface elevation at the

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com COG Operating, LLC Closure Request Warbler State Com 002 Y

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groundwater well location is 3,688 feet above mean sea level (amsl), which is approximately 15 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 7,695 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, or church. The site is greater than 300 feet from a wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 1, 2023 and May 23, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Surface hydrocarbon staining was identified near the flare stack release point and warranted excavation. Four assessment soil samples (SS01 through SS04) were collected around the overspray release extent at an approximate depth of 0.5 feet bgs to confirm the lateral extent of the release. Boreholes were advanced via hand-auger at ten locations (SS05 through SS14) within the overspray release extent to assess for the presence or absence of impacted soil. Two discrete soil samples were collected at each location at depths of 0.5 feet and 1-foot bgs (SS05/SS05A through SS14/SS14A). The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix C.

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.



COG Operating, LLC Closure Request Warbler State Com 002Y

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Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the overspray release extent, indicated all COC concentrations were compliant with the most stringent Table I Site Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for borehole assessment samples SS05/SS05A through SS14/SS14A, collected within the overspray release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D. Based on laboratory analytical results for the assessment soil samples, no impacted soil was identified within the overspray area; however, excavation of visible surface staining was warranted near the flare stack release point.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 23, 2023, in coordination with assessment activities, Ensolum personnel oversaw excavation of the visible surface staining near the flare stack release point. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 0.5 feet to 1-foot bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS05 were collected from the floor of the excavation at depths ranging from 0.5 feet to 1-foot bgs. Due to the shallow depth of the excavation, soil from the sidewalls were incorporated into the floor samples. The soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 2. Photographic documentation of the excavation is included in Appendix C.

Laboratory analytical results for excavation floor samples FS01 through FS05 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

The final excavation area measured approximately 997 square feet in areal size. A total of approximately 73 cubic yards of impacted soil was removed, transported, and properly disposed of at R360 Environmental Solutions in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 27, 2023, release of crude oil and produced water. Laboratory analytical results for the assessment and excavation soil samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Additionally, the release was laterally and vertically defined to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2313130641. NMOCD notifications are included in Appendix E and the Final C-141 is included in Appendix F.



COG Operating, LLC Closure Request Warbler State Com 002 Y

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If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely, **Ensolum**, **LLC**

Hadlie Green Project Geologist

Aimee Cole

Senior Managing Scientist

cc: Jacob Laird, COG Operating, LLC Merchant Livestock Company

Appendices:

Figure 1 Site Receptor Map
Figure 2 Soil Sample Locations

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic/Soil Sampling Logs

Appendix C Photographic Log

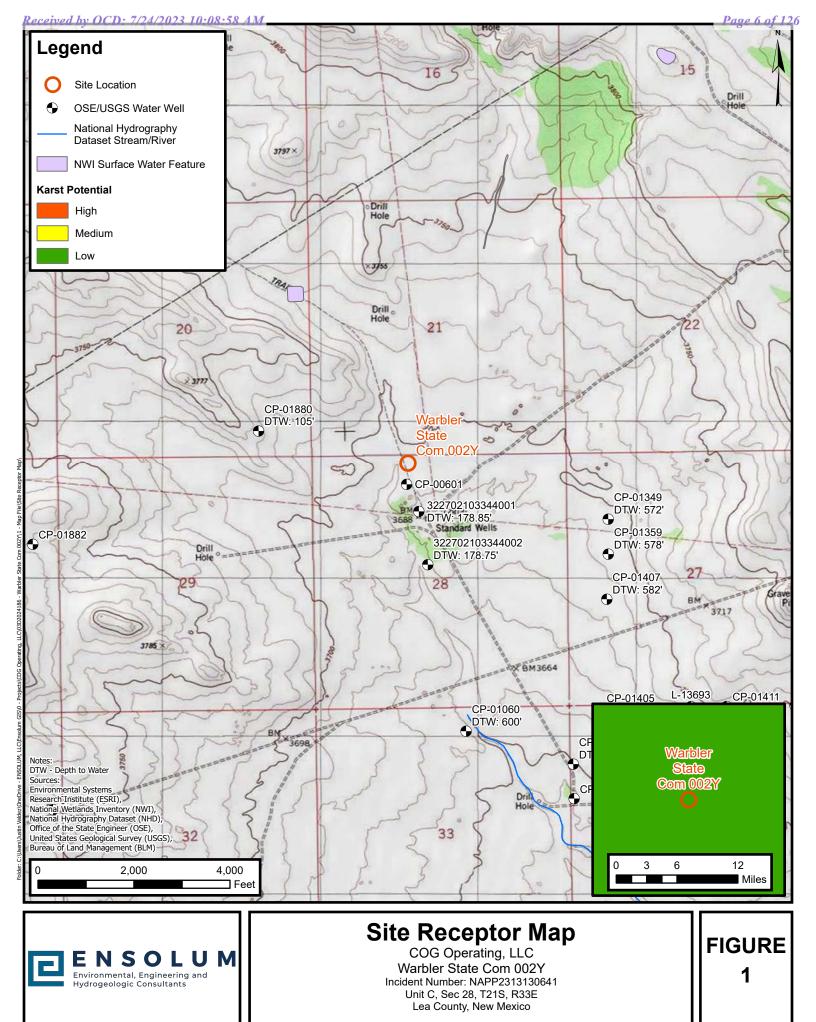
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications

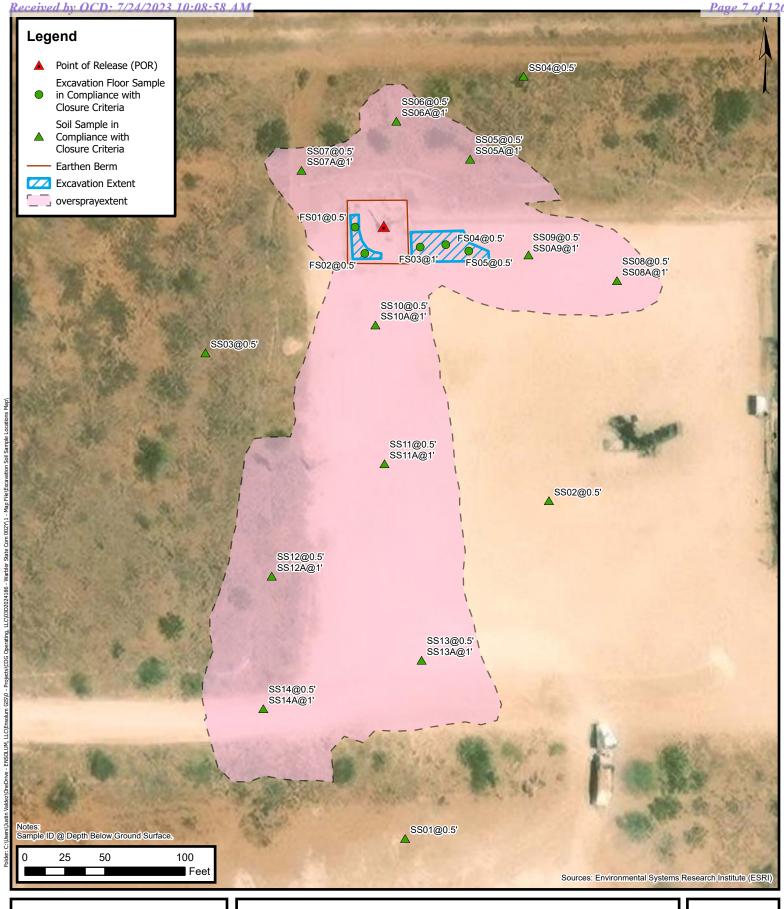
Appendix F Final C-141



FIGURES



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Soil Sample Locations

COG Operating, LLC
Warbler State Com 002Y
Incident Number: NAPP2313130641
Unit C, Sec 28, T21S, R33E
Lea County, New Mexico

FIGURE 2



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Warbler State Com 002Y COG Operating, LLC Lea County, New Mexico

| Lea County, New Mexico Sample Depth Benzene Total BTEX TPH GRO TPH DRO TPH ORO GRO+DRO Total TPH Chloride | | | | | | | | | | | | |
|--|------------------|---------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--|--|
| Sample Designation | 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 | | |
| | | | | Asse | ssment Soil San | nples | | | | | | |
| SS01* | 05/01/2023 | 0.5 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 90.3 | | |
| SS02 | 05/01/2023 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 49.5 | | |
| SS03* | 05/01/2023 | 0.5 | <0.00198 | <0.00396 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 61.5 | | |
| SS04* | 05/01/2023 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 51.0 | | |
| SS05* | 05/23/2023 | 0.5 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 55.1 | | |
| SS05A* | 05/23/2023 | 1 | <0.00200 | <0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 65.5 | | |
| SS06* | 05/23/2023 | 0.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 67.1 | | |
| SS06A* | 05/23/2023 | 1 | <0.00202 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 61.1 | | |
| SS07* | 05/23/2023 | 0.5 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 48.2 | | |
| SS07A* | 05/23/2023 | 1 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 50.7 | | |
| SS08 | 05/23/2023 | 0.5 | <0.00201 | <0.00402 | <49.9 | 59.9 | <49.9 | 59.9 | 59.9 | 145 | | |
| SS08A | 05/23/2023 | 1 | <0.00199 | <0.00398 | <50.0 | 58.4 | <50.0 | 58.4 | 58.4 | 242 | | |
| SS09 | 05/23/2023 | 0.5 | <0.00200 | <0.00401 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 78.2 | | |
| SS09A | 05/23/2023 | 1 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 60.2 | | |
| SS10 | 05/23/2023 | 0.5 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 73.0 | | |
| SS10A | 05/23/2023 | 1 | <0.00198 | <0.00396 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 105 | | |
| SS11 | 05/23/2023 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 64.1 | | |
| SS11A | 05/23/2023 | 1 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 84.1 | | |
| SS12* | 05/23/2023 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 189 | | |
| SS12A* | 05/23/2023 | 1 | <0.00199 | 0.0114 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 112 | | |
| SS13 | 05/23/2023 | 0.5 | <0.00198 | <0.00396 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 67.8 | | |
| SS13A | 05/23/2023 | 1 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 115 | | |
| SS14* | 05/23/2023 | 0.5 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 127 | | |
| SS14A* | 05/23/2023 | 1 | <0.00200 | 0.0155 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 193 | | |

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Warbler State Com 002Y COG Operating, LLC Lea County, New Mexico

| Sample Date Depth Designation (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 Soil Samples | | | | | | | | | | | |
| FS01 | 05/23/2023 | 0.5 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 106 | | |
| FS02 | 05/23/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 137 | | |
| FS03 | 05/23/2023 | 1 | <0.00198 | <0.00396 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 62.3 | | |
| FS04 | 05/23/2023 | 0.5 | <0.00200 | <0.00400 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 71.2 | | |
| FS05 | 05/23/2023 | 0.5 | <0.00198 | <0.00397 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 41.9 | | |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

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.

Grey text represents samples that have been excavated

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



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

| Data Category: | | Geographic Area: | | |
|----------------|---|------------------|---|----|
| Groundwater | ~ | New Mexico | ~ | GO |

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322702103344001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322702103344001 21S.33E.28.12443

Lea County, New Mexico

Table of data

Latitude 32°27'13", Longitude 103°34'42" NAD27

Land-surface elevation 3,688.00 feet above NGVD29

The depth of the well is 224 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

| ab-separat | ted data | | | | | | | | | |
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| Graph of da | <u>ıta</u> | | | | | | | | | |
| Reselect per | <u>riod</u> | | | | | | | | | |
| Date | Time | ? Water- level date- time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
| | | | | | | | | | | |
| 1971-02-0 | 4 | D | 62610 | | 3509.38 | NGVD29 | 1 | Z | | |
| 1971-02-0 | 4 | D | 62611 | | 3511.01 | NAVD88 | 1 | Z | | |
| 1971-02-04 | 4 | D | 72019 | 178.62 | | | 1 | Z | | |
| 1972-09-2 | 2 | D | 62610 | | 3509.40 | NGVD29 | 1 | Z | | |
| 1972-09-2 | 2 | D | 62611 | | 3511.03 | NAVD88 | 1 | Z | | |
| 1972-09-2 | 2 | D | 72019 | 178.60 | | | 1 | Z | | |
| 1976-12-1 | 6 | D | 62610 | | 3509.14 | NGVD29 | 1 | Z | | |
| 1976-12-1 | 6 | D | 62611 | | 3510.77 | NAVD88 | 1 | Z | | |
| 1976-12-1 | 6 | D | 72019 | 178.86 | | | 1 | Z | | |
| 1981-03-1 | 0 | D | 62610 | | 3503.33 | NGVD29 | 1 | Z | | |
| 1981-03-10 | 0 | D | 62611 | | 3504.96 | NAVD88 | 1 | Z | | |
| 1981-03-10 | 0 | D | 72019 | 184.67 | | | 1 | Z | | |
| 1986-03-20 | 0 | D | 62610 | | 3508.76 | NGVD29 | 1 | Z | | |
| 1986-03-20 | 0 | D | 62611 | | 3510.39 | NAVD88 | 1 | Z | | |

| Date | Time | ? Water- level date- time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measure |
|------------|------|------------------------------------|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|---------------------|
| 1986-03-20 | | D | 72019 | 179.24 | | | 1 | Z | | |
| 1991-04-19 | | D | 62610 | | 3508.90 | NGVD29 | 1 | Z | | |
| 1991-04-19 | | D | 62611 | | 3510.53 | NAVD88 | 1 | Z | | |
| 1991-04-19 | | D | 72019 | 179.10 | | | 1 | Z | | |
| 1996-02-21 | | D | 62610 | | 3509.15 | NGVD29 | 1 | S | | |
| 1996-02-21 | | D | 62611 | | 3510.78 | NAVD88 | 1 | S | | |
| 1996-02-21 | | D | 72019 | 178.85 | | | 1 | S | | |

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

Questions or Comments Automated retrievals <u>Help</u> Data Tips Explanation of terms
Subscribe for system changes <u>News</u>

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2023-07-20 12:47:44 EDT

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| | OSE INTERNA | | 1880 | | POD NO | <u> </u> | 1 | WR-2 | WELL RECORD | & LOG (Vers | ion 06/3 | W17) |
| <u> </u> | ATION | | 2)14 | 22.D | 20.4 | | / | WELL TAG I | W-1 14 | WY T | PAGE | 1 OF 2 |
| | 411017 | | $\alpha i \beta$ | ・フフヒ | $\omega \omega \cdot \tau$ | <u>マン</u> | | METT IAC | אז ט. | | . 71.010 | |

PAGE 2 OF 2

WELL TAG ID NO.

| | DEPTH (1 | feet bgl) | THICKNESS | | OR AND TYPE OF MATERIA WATER-BEARING CAVITI | | | | WATER BEARING? | ESTIMATED YIELD FOR WATER- |
|------------------------------|-------------|------------|------------------|-----------------|---|----------------|----------------|---------|-------------------|----------------------------|
| | FROM | то | (feet) | | ch supplemental sheets to fu | | | | (YES/NO) | BEARING ZONES (gpm) |
| | 0 | 9 | 9 | | Caliche, with fine-grained sa | and, White/Ta | ın | | Y ✓N | |
| | 9 | 19 | 10 | Sand, F | ine-grained, poorly graded, w | ith Caliche, 7 | an/Brown | | Y ✓N | |
| | 19 | 105 | 86 | | Sand, Fine-grained, poorly gra | ded, Tan/Bro | own | | Y ✓N | |
| | | | | | | | | | Y N | |
| | | | | | | | · · · · · · | | Y N | |
| ų | | | | | | | | | y N | |
| 4. HYDROGEOLOGIC LOG OF WELL | | | | | | | | | Y N | |
| OF | | | | | | | | | Y N | |
| 90 | | | | | | | | | Y N | |
| <u> </u> | | | | | | | | | Y N | |
| 001 | | | | | | | | | Y N | |
| 95 | | | | | | | | | Y N | |
| RO | | | | | | | | | Y N | |
| HAD | | | | | | | | | Y N | |
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| | | | | | | | | | Y N | |
| | METHOD U | SED TO ES | TIMATE YIELD | OF WATER-BE | ARING STRATA: | | | TOTA | L ESTIMATED | |
| | PUMI | P A | IR LIFT | BAILER | OTHER - SPECIFY: | | | WEL | L YIELD (gpm) | 0,00 |
| NOIS | WELL TES | | | | F DATA COLLECTED DUR BLE SHOWING DISCHARGI | | | | | |
| | MISCELLA | NEOUS INF | ORMATION: T | mporary well n | naterials removed and the s | ail haring h | ackfilled usin | a drill | cuttings from | total denth to ten |
| TEST; RIG SUPERV | | | fe | et below ground | l surface, then hydrated ber | ntonite chips | from ten fee | belov | w ground surface | ce to surface. |
| S SU | | | | | | | | | | |
| , RI | | | | | | | (| SE C |))] NOU 2 20 | 21 mm9:16 |
| EST | PRINT NAN | (E(S) OF D | RILL RIG SUPER | VISOR(S) THA | T PROVIDED ONSITE SUPE | RVISION O | | | | • |
| 5. T | | | elo Trevino, Can | , , | | | | | | |
| 6 3 | | | | | THE BEST OF HIS OR HER LE AND THAT HE OR SHE | | | | | |
| SIGNATURE | | | | | COMPLETION OF WELL I | | iims well K | LOOK | P WIIH INE 3 | iate enuineek |
| IGNA | Jack K | tkins | | | Jackie D. Atkins | | | | 10/29/2021 | |
| 6. 8 | <u>//</u> | SIGNAT | URE OF DRILLE | R / PRINT SIG | GNEE NAME | | | | DATE | <u> </u> |
| | | | <u> </u> | | | | | | | |
| | R OSE INTER | NAL USE | | | pop No | | | L REC | CORD & LOG (| /crsion 06/30/2017) |
| FIL | E NO. | | | | POD NO. | | TRN NO. | | | |

LOCATION



APPENDIX B

Lithologic Soil Sampling Logs

| | | | | | | | | Sample Name: SS05 | Date: 5/23/2023 |
|---------------------|--|----------|------|-----------|-------------|-------------------------|------------|--------------------------------------|------------------------|
| | | | | | | | | Site Name: Warbler State Com 00 | |
| | | | N | 5 | OL | J | V | Incident Number: NAPP23131306 | |
| | | | | | | | | Job Number: 03D2024179, 03D20 | |
| | | ITHOL |)GIC | . / sOn s | AMPLING | ıne | | Logged By: Peter Van Patten | Method: Hand Auger |
| Coordin | | 457066,1 | | | AIVIPLIIVO | 100 | | Hole Diameter: | Total Depth: 1' |
| | | | | | +h UACU Chl | orido Tost St | ring and E | PID for chloride and vapor, respecti | · · |
| | | | | | | | | factors included. | ivery. Chiloride test |
| Moisture Content | Content Chloride (ppm) Vapor (ppm) Samble ID Sample ID Debth (tt pds) USCS/Rock Symbol | | | | | Lithologic Descriptions | | | |
| Damp | <173 | 0.1 | Ν | SS05 | 0.5 | <u> </u> | SP-SM | Sand: brown, fine grain, poon | orly graded, no stain, |
| Damp | <173 | 0.0 | N | SS05A | 1 _ | 1 | SP-SM | SAA (same as above) TD 1 foot bgs | |
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| | | | | | - | _ 12 | | | |

| | | | | | | | | Sample Name: SS06 | Date: 5/23/2023 |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|---------------------|---------------------|---|-------------------------|
| | | | | 6 | | | R.A | Site Name: Warbler State Com 00 | |
| | | | V | 3 | U | _ U | IVI | Incident Number: NAPP2313130 | |
| | | | | | | | | Job Number: 03D2024179, 03D2 | |
| | l | LITHOL | OGIC | / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Hand Auger |
| Coordir | nates: 32. | 457133,- | 103.5 | 80014 | | | | Hole Diameter: | Total Depth: 1' |
| | | | _ | | | | | ID for chloride and vapor, respect factors included. | tively. Chloride test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De | escriptions |
| Damp | <173 | 0.1 | Ν | SS06 | 0.5 <u> </u> | <u> </u> | SP-SM | Sand: brown, fine grain, po no odor | oorly graded, no stain, |
| Damp | <173 | 0.1 | N | SS06A | 1 _ | - 1 | SP-SM | SAA (same as above) TD 1 foot bgs | _ |
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| | | | | | | | | Sample Name: SS07 | Date: 5/23/2023 |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|--|-------------------------|
| | | | | 6 | | | R.A | Site Name: Warbler State Com 00 | |
| | | | V | 3 | U | _ U | | Incident Number: NAPP2313130 | |
| | | | | | | | | Job Number: 03D2024179, 03D2 | |
| | l | LITHOL | OGIC | / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Hand Auger |
| Coordin | ates: 32. | 457051,- | 103.5 | 80207 | | | | Hole Diameter: | Total Depth: 1' |
| | | | _ | | | | | ID for chloride and vapor, respect factors included. | tively. Chloride test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De | escriptions |
| Damp | <173 | 0.1 | Ν | SS07 | 0.5 | <u> </u> | SP-SM | Sand: brown, fine grain, po no odor | oorly graded, no stain, |
| Damp | <173 | 0.1 | N | SS07A | 1 | 1 | SP-SM | SAA (same as above) TD 1 foot bgs | |
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| | | | | | | | | Sample Name: SS08 | Date: 5/23/2023 |
|---------------------|-------------------|----------------|----------|--------------|-----------------------------|-------------------|---------------------|---|--------------------------|
| | | | | | | | | Site Name: Warbler State Com 002 | |
| | | | N | 3 | O L | U | | Incident Number: NAPP23131306 | |
| | | | | | | | | Job Number: 03D2024179, 03D20 | |
| | | LITHOL | OGIC | : / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Backhoe |
| Coordir | | 456854,- | | | | | | Hole Diameter: | Total Depth: 1' |
| Comme | nts: Field | screenir | ng coi | nducted wi | | | | ID for chloride and vapor, respecti | vely. Chloride test |
| perforn | ned with | 1:4 diluti | on fa | ctor of soil | to distilled v | vater. 40% c | orrection | factors included. | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Des | |
| Damp | <173 | 0.3 | N | SS08 | 0.5 | O | СННЕ | Caliche: light tan, pinkish ta grain sand, no stain, no odo | n, some brown, fine r |
| Damp | <173 | 0.3 | N | SS08A | 1 _ | _ 1 | SP-SM | Sand: brown, fine grain, poon no odor | orly graded, no stain, |
| | | | | | _ | - | | TD 1 foot bgs | |
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| | | | | | | | | Sample Name: SS09 | Date: 5/23/2023 |
|---------------------|-------------------|----------------|----------|--------------|-----------------------------|-------------------|---------------------|---|--------------------------|
| | | | | | | | | Site Name: Warbler State Com 002 | |
| | | | N | 3 | O L | _ U | V | Incident Number: NAPP23131306 | |
| | | | | | | | | Job Number: 03D2024179, 03D20 | |
| | | LITHOLO | OGIC | : / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Backhoe |
| Coordir | nates: 32. | | | | | | | Hole Diameter: | Total Depth: 1' |
| | | | | | th HACH Chl | oride Test St | rips and F | PID for chloride and vapor, respecti | |
| perforn | ned with | 1:4 diluti | on fa | ctor of soil | to distilled v | vater. 40% c | orrection | factors included. | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Des | |
| Damp | <173 | 0.1 | N | SS09 | 0.5 | O | CHHE | Caliche: light tan, pinkish ta grain sand, no stain, no odo | n, some brown, fine r |
| Damp | <173 | 0.1 | N | SS09A | 1 _ | - _ 1 | SP-SM | Sand: brown, fine grain, poon | orly graded, no stain, |
| | | | | | _ | - | | TD 1 foot bgs | |
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| | | | | | | | | Sample Name: SS10 | Date: 5/23/2023 |
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| | | | | | | | | Site Name: Warbler State Com 002 | |
| | | | N | 5 | O L | U | M | Incident Number: NAPP23131306 | |
| | | | | | | | | Job Number: 03D2024179, 03D20 | |
| | | ITHOL |)GIC | . / SOII S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Backhoe |
| Coordin | | 456784,- | | | AIVIF LING | 100 | | Hole Diameter: | Total Depth: 1' |
| | | | | | th HACH Chl | orida Tast St | rins and F | ID for chloride and vapor, respecti | |
| | | | _ | | | | orrection | factors included. | very. emoriae test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Des | |
| Damp | <173 | 0.1 | N | SS10 | 0.5 <u> </u> | O | СННЕ | Caliche: light tan, pinkish ta grain sand, no stain, no odo | n, some brown, fine r |
| Damp | <173 | 0.1 | N | SS10A | 1 _ | - - 1 | SP-SM | Sand: brown, fine grain, poon no odor TD 1 foot bgs | orly graded, no stain, |
| | | | | | , | - | | TD I TOOL Dgs | |
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| Site Name: Warbier State Com 002Y Incident Number: NAPP2313130641 Job Number: 03D2024179, 03D2024186 LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.456545,103.580047 Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. Depth | |
|--|-----|
| LITHOLOGIC / SOIL SAMPLING LOG Logged By: Peter Van Patten Method: Backhoe Logged By: Peter Van Patten Method: Backhoe Hole Diameter: Total Depth: 1' Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. Sample Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth Sylve Sy | |
| Job Number: 03D2024179, 03D2024186 LiTHOLOGIC / SOIL SAMPLING LOG Logged By: Peter Van Patten Method: Backhoe Coordinates: 32.456545, 103.580047 Hole Diameter: Total Depth: 1' Total Depth: 1' Hole Diameter: Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth: 1' Total Depth | |
| LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.456545,-103.580047 Hole Diameter: Total Depth: 1¹ Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1.4 dilution factor of soil to distilled water. 40% correction factors included. Depth | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The provided of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The provided of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The provided of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. The performance of the performa | |
| performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included. Part P | |
| Damp <173 | |
| Damp <173 0.1 N SS11 0.5 CHHE grain sand, no stain, no odor Sand: brown, fine grain, poorly graded, no stand no odor TD 1 foot bgs | |
| Damp <173 0.1 N SS11A 1 1 SP-SM no odor TD 1 foot bgs | ie |
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| | | | | | | | R.A | Site Name: Warbler State Com 00 | |
| | | | V | 3 | OL | . U | V | Incident Number: NAPP23131306 | |
| | | | | | | | | Job Number: 03D2024179, 03D20 | |
| | | LITHOL | OGIC | / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Hand Auger |
| Coordin | nates: 32. | 456355,- | 103.5 | 80279 | | | | Hole Diameter: | Total Depth: 1' |
| | | | _ | | | | | ID for chloride and vapor, respecti factors included. | ively. Chloride test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De: | scriptions |
| Damp | <173 | 0.1 | N | SS12 | 0.5 <u> </u> | 0 | SP-SM | Sand: brown, fine grain, poon | orly graded, no stain, |
| Damp | <173 | 0.1 | N | SS12A | 1 _ | 1 | SP-SM | SAA (same as above), some TD 1 foot bgs | caliche gravel |
| | | | | | - | <u> </u> | | | |
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| | | | | | | | | Sample Name: SS13 | Date: 5/23/2023 |
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| | | | | | | | | Site Name: Warbler State Com 002 | |
| | | | N | 3 | O L | _ U | V | Incident Number: NAPP23131306 | |
| | | | | | | Job Number: 03D2024179, 03D20 | | | |
| | | LITHOL | OGIC | : / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Backhoe |
| Coordir | | 456207,- | | | | | | Hole Diameter: | Total Depth: 1' |
| | | | | | th HACH Chl | oride Test St | rips and F | ID for chloride and vapor, respecti | |
| perforn | ned with | 1:4 diluti | on fa | ctor of soil | to distilled v | vater. 40% c | orrection | factors included. | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Des | |
| Damp | <173 | 0.1 | N | SS13 | 0.5 | O | СННЕ | Caliche: light tan, pinkish ta grain sand, no stain, no odo | n, some brown, fine r |
| Damp | <173 | 0.1 | N | SS13A | 1 _ | - _ 1 | SP-SM | Sand: brown, fine grain, poon | orly graded, no stain, |
| | | | | | _ | - | | TD 1 foot bgs | |
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| | | | | | | | | Sample Name: SS14 | Date: 5/23/2023 |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|---|---------------------------|
| | | | | | | | B .4 | Site Name: Warbler State Com 00 | |
| | | | N | 5 | OL | . U | M | Incident Number: NAPP23131306 | |
| | | | | | | | | Job Number: 03D2024179, 03D20 | |
| | | ITUOI | חפיי | . / sOn s | AMPLING | IOG | | Logged By: Peter Van Patten | Method: Backhoe |
| Coordin | nates: 32. | | | | AIVIFLING | 100 | | Hole Diameter: | Total Depth: 1' |
| | | | | | th UACU Chl | orido Tost St | ring and E | PID for chloride and vapor, respecti | |
| | | | _ | | | | | factors included. | very. Cilionae test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Des | |
| Damp | <173 | 0.1 | Ν | SS14 | 0.5 | <u> </u> | СННЕ | Caliche: light tan, pinkish ta grain sand, no stain, no odo | n, some brown, fine or |
| Damp | <173 | 0.1 | N | SS14A | 1 | _ _ 1 | SP-SM | Sand: brown, fine grain, poon | orly graded, no stain, |
| | | | | | - | - | | TD 1 foot bgs | |
| | | | | | - | 2 | | | |
| | | | | | - | - ² | | | |
| | | | | | _ | _ | | | |
| | | | | | | _ 3 | | | |
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| | | | | | - | _ 4 - | | | |
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| | | | | | - | 6 | | | |
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| | | | | | _ | 7 | | | |
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| | | | | | - | 8 | | | |
| | | | | | | - - | | | |
| | | | | | - | 9 | | | |
| | | | | | - | - - | | | |
| | | | | | - | _ 10 | | | |
| | | | | | - - - | 11 | | | |
| | | | | | - | <u>-</u> | | | |
| | | | | | - | 12 | | | |



APPENDIX C

Photographic Log



Photographic Log

COG Operating, LLC Warbler State Com 002Y NAPP2313130641





Photograph: 1 Date: 4/27/2023

Description: Soil staining in release footprint

View: North

Photograph: 2 Date: 5/1/2023

Description: Soil staining, initial site assessment

View: North





Photograph: 3 Date: 5/23/2023

Description: Excavation activities

View: West

Photograph: 4 Date: 5/23/2023

Description: Excavation activities

View: West



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/8/2023 3:23:18 PM

JOB DESCRIPTION

Warbler State Com 2Y SDG NUMBER 03D2024186

JOB NUMBER

890-4600-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated 5/8/2023 3:23:18 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Ensolum
Project/Site: Warbler State Com 2Y
Laboratory Job ID: 890-4600-1
SDG: 03D2024186

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Definitions/Glossary

Job ID: 890-4600-1 Client: Ensolum Project/Site: Warbler State Com 2Y

SDG: 03D2024186

Qualifiers

GC VOA Qualifier

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

DLC

| 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 |

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

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

Decision Level Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Warbler State Com 2Y

Job ID: 890-4600-1

SDG: 03D2024186

Job ID: 890-4600-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4600-1

Receipt

The samples were received on 5/1/2023 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4600-1), SS02 (890-4600-2), SS03 (890-4600-3) and SS04 (890-4600-4).

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (890-4587-A-1-E MS) and (890-4587-A-1-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52362 recovered above the upper control limit for Toluene. An acceptable CCV was ran within the 12 hour window therefore, the data have been reported. The associated sample is impacted: (CCV 880-52362/29).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52362 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4600-1) and SS03 (890-4600-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-52339/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS04 (890-4600-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52499 and analytical batch 880-52451 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4600-1), SS02 (890-4600-2), SS04 (890-4600-4), (890-4603-A-19-B), (890-4603-A-19-C MS) and (890-4603-A-19-D MSD). 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 for preparation batch 880-52486 and analytical batch 880-52596 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated sample is: SS01 (890-4600-1).

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

Case Narrative

Client: Ensolum
Project/Site: Warbler State Com 2Y
Job ID: 890-4600-1
SDG: 03D2024186

Job ID: 890-4600-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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Job ID: 890-4600-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 03D2024186

Client Sample ID: SS01 Lab Sample ID: 890-4600-1 Date Collected: 05/01/23 11:35 Matrix: Solid

Date Received: 05/01/23 14:20 Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
|--|----------------|--------------------------|----------|-------|---|----------------|----------------|--------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:04 | |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:04 | |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:04 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:04 | |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:04 | |
| Kylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:04 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 140 | S1+ | 70 - 130 | | | 05/03/23 11:17 | 05/03/23 14:04 | |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/03/23 11:17 | 05/03/23 14:04 | |
| Method: TAL SOP Total BTEX - 1 | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 05/03/23 15:25 | |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 05/04/23 14:01 | |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:16 | |
| GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:16 | |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:16 | |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:16 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 85 | | 70 - 130 | | | 05/03/23 12:02 | 05/03/23 23:16 | |
| o-Terphenyl | 62 | S1- | 70 - 130 | | | 05/03/23 12:02 | 05/03/23 23:16 | |
| | | | | | | | | |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | е | | | | | |
| Method: EPA 300.0 - Anions, Ion Analyte | • • | hy - Solubl Qualifier | e RL | Unit | D | Prepared | Analyzed | Dil Fa |

Client Sample ID: SS02 Lab Sample ID: 890-4600-2

Date Collected: 05/01/23 11:40 Date Received: 05/01/23 14:20

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:30 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:30 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:30 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:30 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:30 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 05/03/23 11:17 | 05/03/23 14:30 | 1 |

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-4600-2

Client: Ensolum Job ID: 890-4600-1 Project/Site: Warbler State Com 2Y SDG: 03D2024186

Client Sample ID: SS02

Date Collected: 05/01/23 11:40 Date Received: 05/01/23 14:20

Sample Depth: 0.5'

| Surrogate | %Recovery Qua | alifier Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|----------------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 127 | 70 - 130 | 05/03/23 11:17 | 05/03/23 14:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | 70 - 130 | 05/03/23 11:17 | 05/03/23 14:30 | 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 | | | 05/03/23 15:25 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 05/04/23 14:01 | 1 |

| Method: SW846 8015B | NM - Diesel Rand | ge Organics | (DRO) | (GC) |
|------------------------|---------------------|-------------|--------|------|
| Michiga. Offord out ob | ININ - Dieser Itali | ge Organics | (DitO) | (00) |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:37 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:37 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:37 | 1 |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85 | 70 - 130 | 05/03/23 12:02 | 05/03/23 23:37 | 1 |
| o-Terphenyl | 61 S1- | 70 - 130 | 05/03/23 12:02 | 05/03/23 23:37 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 49.5 | | 4.97 | mg/Kg | | | 05/04/23 05:37 | 1 |

Client Sample ID: SS03

Lab Sample ID: 890-4600-3 Date Collected: 05/01/23 11:50 **Matrix: Solid**

Date Received: 05/01/23 14:20 Sample Depth: 0.5'

| Mothod: SW946 9021B | Volatile Organic | Compounds (GC) |
|---------------------|------------------|----------------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4.D. 6. 4. 40. 1 | | - | 70 100 | | | 05/00/00 11 00 | 05/00/00 1155 | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 136 | S1+ | 70 - 130 | 05/03/23 11:30 | 05/03/23 14:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 79 | | 70 - 130 | 05/03/23 11:30 | 05/03/23 14:55 | 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 | | | 05/03/23 15:25 | 1 |

Job ID: 890-4600-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 03D2024186

Client Sample ID: SS03 Lab Sample ID: 890-4600-3 Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/01/23 14:20 Sample Depth: 0.5'

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 05/04/23 14:01 | 1 | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:58 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:58 | 1 |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | 05/03/23 12:02 | 05/03/23 23:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 05/03/23 12:02 | 05/03/23 23:58 | 1 |
| o-Ternhenyl | 72 | | 70 - 130 | | | 05/03/23 12:02 | 05/03/23 23:58 | 1 |

| Method: EPA 300.0 - Anions, Ion Ch | romatograph | hy - Soluble | | | | | | |
|------------------------------------|-------------|--------------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 61.5 | | 4.99 | mg/Kg | | | 05/04/23 05:53 | 1 |

Client Sample ID: SS04 Lab Sample ID: 890-4600-4 **Matrix: Solid**

Date Collected: 05/01/23 11:55 Date Received: 05/01/23 14:20

Result Qualifier

<50.0 U

Sample Depth: 0.5'

Analyte

Total TPH

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 153 | S1+ | 70 - 130 | | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | 05/03/23 11:30 | 05/03/23 15:33 | 1 |
| Method: TAL SOP Total BTEX | - Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 05/05/23 15:57 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/04/23 00:20 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/04/23 00:20 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/04/23 00:20 | 1 |

RL

50.0

Unit

mg/Kg

Prepared

Eurofins Carlsbad

Analyzed

05/04/23 14:01

5/8/2023

Lab Sample ID: 890-4600-4

05/04/23 05:59

Client Sample Results

Client: Ensolum Job ID: 890-4600-1
Project/Site: Warbler State Com 2Y SDG: 03D2024186

Client Sample ID: SS04

Date Collected: 05/01/23 11:55 Date Received: 05/01/23 14:20

Sample Depth: 0.5'

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------------|--------------|----------|-------|---|----------------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/04/23 00:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | 05/03/23 12:02 | 05/04/23 00:20 | 1 |
| o-Terphenyl | 56 | S1- | 70 - 130 | | | 05/03/23 12:02 | 05/04/23 00:20 | 1 |
| – Method: EPA 300.0 - Ani | ions, Ion Chromatograp | ohy - Solubl | e | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

4.99

51.0

mg/Kg

5

7

9

10

12

13

Surrogate Summary

Job ID: 890-4600-1 Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 03D2024186

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | BFB1 | DFBZ1 |
|--------------------|------------------------|----------|----------|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-4587-A-1-E MS | Matrix Spike | 120 | 77 |
| 890-4587-A-1-F MSD | Matrix Spike Duplicate | 113 | 88 |
| 890-4600-1 | SS01 | 140 S1+ | 87 |
| 890-4600-2 | SS02 | 127 | 95 |
| 890-4600-3 | SS03 | 136 S1+ | 79 |
| 890-4600-4 | SS04 | 153 S1+ | 94 |
| LCS 880-52289/1-A | Lab Control Sample | 117 | 92 |
| LCSD 880-52289/2-A | Lab Control Sample Dup | 112 | 104 |
| MB 880-52289/5-A | Method Blank | 70 | 82 |
| MB 880-52339/5-A | Method Blank | 68 S1- | 83 |

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) |
|---------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-4600-1 | SS01 | 85 | 62 S1- | |
| 890-4600-2 | SS02 | 85 | 61 S1- | |
| 890-4600-3 | SS03 | 95 | 72 | |
| 890-4600-4 | SS04 | 78 | 56 S1- | |
| 890-4603-A-19-C MS | Matrix Spike | 89 | 63 S1- | |
| 890-4603-A-19-D MSD | Matrix Spike Duplicate | 86 | 60 S1- | |
| LCS 880-52499/2-A | Lab Control Sample | 87 | 66 S1- | |
| LCSD 880-52499/3-A | Lab Control Sample Dup | 95 | 72 | |
| MB 880-52499/1-A | Method Blank | 121 | 106 | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4600-1
Project/Site: Warbler State Com 2Y SDG: 03D2024186

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52289/5-A

Matrix: Solid Analysis Batch: 52362 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52289

| | | MB | MB | | | | | | |
|---|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| | Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| | Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| | m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| | o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| | Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| ı | | | | | | | | | |

MB MB

MD MD

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 70 | | 70 - 130 | 05/01/23 11:17 | 05/03/23 05:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | 05/01/23 11:17 | 05/03/23 05:20 | 1 |

Lab Sample ID: LCS 880-52289/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 52362

Prep Type: Total/NA

Prep Batch: 52289

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1195 | - | mg/Kg | | 119 | 70 - 130 | |
| Toluene | 0.100 | 0.1194 | | mg/Kg | | 119 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1056 | | mg/Kg | | 106 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2132 | | mg/Kg | | 107 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1059 | | mg/Kg | | 106 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 117 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 92 | 70 - 130 |

Lab Sample ID: LCSD 880-52289/2-A

Matrix: Solid

Analysis Batch: 52362

Client Sample ID: Lab Control Sample Dup

Prep Batch: 52289

Prep Batch: 52289

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|---------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.1247 | | mg/Kg | | 125 | 70 - 130 | 4 | 35 | |
| Toluene | 0.100 | 0.1244 | | mg/Kg | | 124 | 70 - 130 | 4 | 35 | |
| Ethylbenzene | 0.100 | 0.1055 | | mg/Kg | | 105 | 70 - 130 | 0 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2008 | | mg/Kg | | 100 | 70 - 130 | 6 | 35 | |
| o-Xylene | 0.100 | 0.1050 | | mg/Kg | | 105 | 70 - 130 | 1 | 35 | |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 104 | 70 - 130 |

Lab Sample ID: 890-4587-A-1-E MS

Matrix: Solid

Analysis Batch: 52362

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52289

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|----------|-----------|--------|----------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00198 | U F1 | 0.0998 | <0.00200 | U F1 | mg/Kg | | 2 | 70 - 130 | |
| Toluene | <0.00198 | U F1 | 0.0998 | <0.00200 | U F1 | mg/Kg | | 0 | 70 - 130 | |

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QC Sample Results

Job ID: 890-4600-1 Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 03D2024186

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

Lab Sample ID: 890-4587-A-1-E MS

Matrix: Solid Analysis Batch: 52362 Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 52289

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00198 U F1 F2 0.0998 0.002590 F1 mg/Kg 3 70 - 130 m-Xylene & p-Xylene < 0.00396 U F1 F2 0.200 0.004991 F1 mg/Kg 3 70 - 130 0.0998 o-Xylene <0.00198 U F1 F2 0.002593 F1 3 70 - 130 mg/Kg

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 |

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD

Prep Batch: 52289

Matrix: Solid Analysis Batch: 52362

Lab Sample ID: 890-4587-A-1-F MSD

Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier Analyte %Rec Limits Unit D 0.100 Benzene <0.00198 UF1 <0.00201 UF1 mg/Kg 1 70 - 130

28 35 Toluene <0.00198 UF1 0.100 <0.00201 UF1 mg/Kg 0 70 - 130 NC 35 Ethylbenzene <0.00198 UF1 F2 0.100 <0.00201 UF1F2 0.6 70 - 130 122 35 mg/Kg <0.00396 U F1 F2 m-Xylene & p-Xylene 0.201 <0.00402 U F1 F2 mg/Kg 0.7 70 - 130 108 35 <0.00198 U F1 F2 0.100 <0.00201 U F1 F2 70 - 130 71 o-Xylene mg/Kg

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 113 | 70 _ 130 |
| 1 4-Difluorobenzene (Surr) | 88 | 70 130 |

Lab Sample ID: MB 880-52339/5-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 52362

Prep Type: Total/NA Prep Batch: 52339

Result Qualifier Prepared Dil Fac Analyte RL Unit D Analyzed 05/02/23 15:51 Benzene <0.00200 U 0.00200 mg/Kg 05/01/23 15:45 Toluene <0.00200 U 0.00200 05/01/23 15:45 05/02/23 15:51 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg 05/01/23 15:45 05/02/23 15:51 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 05/01/23 15:45 05/02/23 15:51 05/01/23 15:45 0.00200 05/02/23 15:51 o-Xylene <0.00200 U mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 05/01/23 15:45 05/02/23 15:51

MB MB

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 68 | S1- | 70 - 130 | 05/01/23 15:45 | 05/02/23 15:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 05/01/23 15:45 | 05/02/23 15:51 | 1 |

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

Lab Sample ID: MB 880-52499/1-A Client Sample ID: Method Blank

Analysis Batch: 52451

MB MB Analyte Result Qualifier RL Unit Prepared Dil Fac <50.0 U 50.0 05/03/23 12:02 05/03/23 21:05 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

Matrix: Solid

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Prep Type: Total/NA

Prep Batch: 52499

RPD

Limit

QC Sample Results

Client: Ensolum Job ID: 890-4600-1 Project/Site: Warbler State Com 2Y SDG: 03D2024186

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

Lab Sample ID: MB 880-52499/1-A

Matrix: Solid Analysis Batch: 52451 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52499

| | МВ | MB | | | | | | |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 21:05 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 21:05 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 05/03/23 12:02 | 05/03/23 21:05 | 1 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121 | | 70 - 130 | 05/03/23 12:02 | 05/03/23 21:05 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | 05/03/23 12:02 | 05/03/23 21:05 | 1 |

Lab Sample ID: LCS 880-52499/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Prep Batch: 52499 **Analysis Batch: 52451** LCS LCS Spike %Rec

Analyte Added Result Qualifier Limits Unit D %Rec Gasoline Range Organics 1000 960.0 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 982.8 mg/Kg 98 70 - 130

C10-C28)

| | 200 | 200 | | | |
|----------------|-----------|-----------|----------|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | |
| o-Terphenyl | 66 | S1- | 70 - 130 | | |

LCS LCS

Lab Sample ID: LCSD 880-52499/3-A

Matrix: Solid

Analysis Batch: 52451

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

Prep Batch: 52499

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 992.4 99 70 - 130 3 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1029 mg/Kg 103 70 - 130 20

C10-C28)

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 95 | | 70 - 130 |
| o-Terphenyl | 72 | | 70 - 130 |

Lab Sample ID: 890-4603-A-19-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 52451

Prep Type: Total/NA Prep Batch: 52499 Sample Sample Snike Me Me

| | Jampie | Janipie | Opike | IVIO | IVIO | | | | /BIXEC | |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | <49.9 | U | 997 | 789.2 | - | mg/Kg | | 77 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | 80.7 | F1 | 997 | 555.1 | F1 | mg/Kg | | 48 | 70 - 130 | |
| C10-C28) | | | | | | | | | | |
| | | | | | | | | | | |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 89 | | 70 - 130 |

Job ID: 890-4600-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 03D2024186

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

Lab Sample ID: 890-4603-A-19-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 52451 Prep Batch: 52499

MS MS Surrogate %Recovery Qualifier Limits o-Terphenyl 63 S1-70 - 130

Lab Sample ID: 890-4603-A-19-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 52451** Prep Batch: 52499

MSD MSD Sample Sample Spike %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics <49.9 U 999 760.6 mg/Kg 74 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 80.7 F1 999 535.7 F1 mg/Kg 46 70 - 130 4 20

C10-C28) MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 86 60 S1-70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52486/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 52596

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/04/23 04:06 mg/Kg

Lab Sample ID: LCS 880-52486/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 52596

LCS LCS Spike %Rec Analyte Added Qualifier Result Unit %Rec Limits Chloride 250 235.8 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-52486/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52596

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec RPD Limit D Limits Chloride 250 236.8 95 20 90 - 110 mg/Kg

Lab Sample ID: 890-4600-2 MS Client Sample ID: SS02 Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 52596

Sample Sample Spike MS MS

%Rec Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit Chloride 49.5 249 105 310.0 mg/Kg 90 _ 110

QC Sample Results

Client: Ensolum

Project/Site: Warbler State Com 2Y

Job ID: 890-4600-1

SDG: 03D2024186

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4600-2 MSD

Matrix: Solid

Client Sample ID: SS02

Prep Type: Soluble

Analysis Batch: 52596

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 49.5 | | 249 | 311.3 | | mg/Kg | | 105 | 90 - 110 | 0 | 20 |

1

4

6

7

0

10

12

13

QC Association Summary

Client: Ensolum
Project/Site: Warbler State Com 2Y
Job ID: 890-4600-1
SDG: 03D2024186

GC VOA

Prep Batch: 52289

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4600-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-4600-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-4600-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-4600-4 | SS04 | Total/NA | Solid | 5035 | |
| MB 880-52289/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-52289/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-52289/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4587-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-4587-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 52339

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-52339/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 52362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4600-1 | SS01 | Total/NA | Solid | 8021B | 52289 |
| 890-4600-2 | SS02 | Total/NA | Solid | 8021B | 52289 |
| 890-4600-3 | SS03 | Total/NA | Solid | 8021B | 52289 |
| 890-4600-4 | SS04 | Total/NA | Solid | 8021B | 52289 |
| MB 880-52289/5-A | Method Blank | Total/NA | Solid | 8021B | 52289 |
| MB 880-52339/5-A | Method Blank | Total/NA | Solid | 8021B | 52339 |
| LCS 880-52289/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 52289 |
| LCSD 880-52289/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 52289 |
| 890-4587-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 52289 |
| 890-4587-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 52289 |

Analysis Batch: 52553

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method Prep Batch |
|---------------|------------------|-----------|--------|-------------------|
| 890-4600-1 | SS01 | Total/NA | Solid | Total BTEX |
| 890-4600-2 | SS02 | Total/NA | Solid | Total BTEX |
| 890-4600-3 | SS03 | Total/NA | Solid | Total BTEX |
| 890-4600-4 | SS04 | Total/NA | Solid | Total BTEX |

GC Semi VOA

Analysis Batch: 52451

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-4600-1 | SS01 | Total/NA | Solid | 8015B NM | 52499 |
| 890-4600-2 | SS02 | Total/NA | Solid | 8015B NM | 52499 |
| 890-4600-3 | SS03 | Total/NA | Solid | 8015B NM | 52499 |
| 890-4600-4 | SS04 | Total/NA | Solid | 8015B NM | 52499 |
| MB 880-52499/1-A | Method Blank | Total/NA | Solid | 8015B NM | 52499 |
| LCS 880-52499/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 52499 |
| LCSD 880-52499/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 52499 |
| 890-4603-A-19-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 52499 |
| 890-4603-A-19-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 52499 |

Prep Batch: 52499

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-4600-1 | SS01 | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum Job ID: 890-4600-1
Project/Site: Warbler State Com 2Y SDG: 03D2024186

GC Semi VOA (Continued)

Prep Batch: 52499 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-4600-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-4600-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-4600-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-52499/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-52499/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-52499/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-4603-A-19-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-4603-A-19-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 52626

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4600-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-4600-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-4600-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-4600-4 | SS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 52486

| [a | 011 / 0 1 15 | | | | 5 541 |
|--------------------|------------------------|-----------|--------|----------|------------|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 890-4600-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-4600-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-4600-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-4600-4 | SS04 | Soluble | Solid | DI Leach | |
| MB 880-52486/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-52486/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-52486/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4600-2 MS | SS02 | Soluble | Solid | DI Leach | |
| 890-4600-2 MSD | SS02 | Soluble | Solid | DI Leach | |

Analysis Batch: 52596

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4600-1 | SS01 | Soluble | Solid | 300.0 | 52486 |
| 890-4600-2 | SS02 | Soluble | Solid | 300.0 | 52486 |
| 890-4600-3 | SS03 | Soluble | Solid | 300.0 | 52486 |
| 890-4600-4 | SS04 | Soluble | Solid | 300.0 | 52486 |
| MB 880-52486/1-A | Method Blank | Soluble | Solid | 300.0 | 52486 |
| LCS 880-52486/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 52486 |
| LCSD 880-52486/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 52486 |
| 890-4600-2 MS | SS02 | Soluble | Solid | 300.0 | 52486 |
| 890-4600-2 MSD | SS02 | Soluble | Solid | 300.0 | 52486 |

Eurofins Carlsbad

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Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 03D2024186

Client Sample ID: SS01 Lab Sample ID: 890-4600-1 Date Collected: 05/01/23 11:35

Matrix: Solid

Date Received: 05/01/23 14:20

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 52289 | 05/03/23 11:17 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 52362 | 05/03/23 14:04 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 52553 | 05/03/23 15:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 52626 | 05/04/23 14:01 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 52499 | 05/03/23 12:02 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 52451 | 05/03/23 23:16 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 52486 | 05/03/23 10:38 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 52596 | 05/04/23 05:32 | SMC | EET MID |

Client Sample ID: SS02 Lab Sample ID: 890-4600-2

Date Collected: 05/01/23 11:40 Matrix: Solid

Date Received: 05/01/23 14:20

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 52289 | 05/03/23 11:17 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 52362 | 05/03/23 14:30 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 52553 | 05/03/23 15:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 52626 | 05/04/23 14:01 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 52499 | 05/03/23 12:02 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 52451 | 05/03/23 23:37 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 52486 | 05/03/23 10:38 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 52596 | 05/04/23 05:37 | SMC | EET MID |

Client Sample ID: SS03 Lab Sample ID: 890-4600-3 Date Collected: 05/01/23 11:50

Date Received: 05/01/23 14:20

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 52289 | 05/03/23 11:30 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 52362 | 05/03/23 14:55 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 52553 | 05/03/23 15:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 52626 | 05/04/23 14:01 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 52499 | 05/03/23 12:02 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 52451 | 05/03/23 23:58 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 52486 | 05/03/23 10:38 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 52596 | 05/04/23 05:53 | SMC | EET MID |

Client Sample ID: SS04 Lab Sample ID: 890-4600-4 Date Collected: 05/01/23 11:55

Date Received: 05/01/23 14:20

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 52289 | 05/03/23 11:30 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 52362 | 05/03/23 15:33 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 52553 | 05/05/23 15:57 | SM | EET MID |

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum
Project/Site: Warbler State Com 2Y
Job ID: 890-4600-1
SDG: 03D2024186

Client Sample ID: SS04

Lab Sample ID: 890-4600-4

Matrix: Solid

Date Collected: 05/01/23 11:55 Date Received: 05/01/23 14:20

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 52626 | 05/04/23 14:01 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 52499 | 05/03/23 12:02 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 52451 | 05/04/23 00:20 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 52486 | 05/03/23 10:38 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 52596 | 05/04/23 05:59 | SMC | EET MID |

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Warbler State Com 2Y
Job ID: 890-4600-1
SDG: 03D2024186

Laboratory: Eurofins Midland

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

| Authority | F | Program | Identification Number | Expiration Date | |
|---|----------------------------|----------------------------------|--|------------------------------|--|
| Texas | exas | | T104704400-22-25 | 06-30-23 | |
| The following analytes the agency does not of | • | out the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for whic | |
| | | | | | |
| Analysis Method | Prep Method | Matrix | Analyte | | |
| Analysis Method 8015 NM | Prep Method | Matrix Solid | Analyte Total TPH | | |
| | Prep Method 8015NM Prep | | | | |

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Method Summary

Client: Ensolum Job ID: 890-4600-1 Project/Site: Warbler State Com 2Y

SDG: 03D2024186

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Warbler State Com 2Y

Job ID: 890-4600-1

SDG: 03D2024186

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4600-1 | SS01 | Solid | 05/01/23 11:35 | 05/01/23 14:20 | 0.5' |
| 890-4600-2 | SS02 | Solid | 05/01/23 11:40 | 05/01/23 14:20 | 0.5' |
| 890-4600-3 | SS03 | Solid | 05/01/23 11:50 | 05/01/23 14:20 | 0.5' |
| 890-4600-4 | SS04 | Solid | 05/01/23 11:55 | 05/01/23 14:20 | 0.5' |

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Released to Imaging: 10/16/2023 12:35:20 PM

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: | |
|------------|-----|--|
| HOIN OIGE | | |

| | | | | | | | | | | | | | | www.xenco | o.com Page | of |
|---|---------------------------------------|--------------|---------------------|--------------------|-------------------|------------------------------------|-----------|-------------|------------------------|------------------------------|--|-----------------------|---|--------------------------|---|---------------|
| Project Manager: | Hadli | e G | teen | | Bill to: (if o | different) | | K | rlei | J | najnys | | | Work Ore | der Comments | |
| Company Name: | Enso | lum | LLC | | Company | Name: | | E | 50 | yn | naings | | Program: U | ST/PST PRP | Brownfields RRC | Superfund 🗌 |
| Address: | 3122 | NOW | 20/ Park | Huy | Address: | | | | | | | | State of Project | :: | | |
| City, State ZIP: | Carlsbi | | IM 88 | | City, State | ZIP: | | | | | | | Reporting: Le | vel II 🗌 Level III [| PST/UST TRRP | Level IV |
| Phone: | 432- | | 8895 | Email: | | ngree | n (| 20 | 5010 | m. | com | | Deliverables: | EDD | ADaPT Other: | |
| Project Name: | Warblar | | | Turn | Around | 0 | T | | | | ANALYSIS | REOL | JEST | | Preservative | Codes |
| Project Number: | 03020 | | | Routine | Rush | Pre | | T | | 1 | 7,00,2151 | | | 4 | None: NO | DI Water: H₂O |
| Project Location: | | | | Due Date: | 5da | | | | | | | | | | Cool: Cool | MeOH: Me |
| Sampler's Name: | A 111 | | day receive | 7 | | | | | | | | | HCL: HC | HNO 3: HN | | |
| PO #: | 1 | | 70 | the lab, if rec | | 0pm | | | | | | 1 | | | H ₂ SO ₄ : H ₂ | NaOH: Na |
| SAMPLE RECEIPT | | | Wet Ice: | Yes 1 | Parameters ON (3X | | | | | HARAN MARKAN | | | | H₃PO₄: HP | | |
| Samples Received Inta | | | er ID: | Tra | CO7 5 | | | | | | | | 1 | NaHSO 4: NABIS | | |
| Cooler Custody Seals: | Yes No | (N/A) | Correction F | actor: | - D. | 7 8 | | | | | 1100010000 | | | H 1 | Na ₂ S ₂ O ₃ : NaSO ₃ | |
| Sample Custody Seals: | eals: Yes No N/A Temperature Reading: | | | e Reading: | 5. | 2 | 1.3 | X | | | 890-4600 C | hain o | of Custody | | Zn Acetate+NaOH: | |
| Total Containers: | | | Corrected To | emperature: | 1 2 | 0 | _ | BIEX | 7 | _ | 030 101 | | | 1 1 | NaOH+Ascorbic Ac | id: SAPC |
| Sample Identif | fication | Matrix | Date Sampled | Time Sampled | Depth | Grab/ # C Comp Coi | | D F | 2 5 |) | | | | | Sample Con | nments |
| 5501 | | 5 | 5/1/23 | 1135 | 0.5 | G |) | 0 × | K | | | | | | | |
| SSOZ | | | 1 | 1140 | | | | 1 1 | 1 | | | | | | | |
| 5503 | 6 8 | | | 1150 | | | | | | | | | | | | |
| 5564 | | 4 | V | 1155 | Y | A 1 | | 4 | <u>'</u> | | | | | | | |
| | | | | | 128 | | | | | | | \perp | | | | |
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| Total 200.7 / 6010 | 200.8/ | 6020: | 8F | RCRA 13PP | M Texas | s 11 Al S | b As | ВаВ | е В С | d Ca | Cr Co Cu Fe F | b Mo | g Mn Mo Ni K | Se Ag SiO ₂ N | Na Sr Tl Sn U V Zn | |
| Circle Method(s) a | ind Metal(s) to | be ana | lyzed | TCLP/S | PLP 6010 | : 8RCRA | Sb A | s Ba | Be Co | Cr Cc | Cu Pb Mn M | o Ni | Se Ag TI U | Hg: 1631 / 2 | 245.1 / 7470 / 7471 | |
| Notice: Signature of this docu | ment and relinquishn | nent of samp | les constitutes a v | ralid purchase ord | er from client | company to Eu | rofins X | enco, its a | ffiliates a | nd subcon | tractors. It assigns stand | dard ten | ms and conditions | | | |
| of service. Eurofins Xenco will of Eurofins Xenco. A minimum | be liable only for the | cost of samp | ples and shall not | assume any respo | nsibility for an | y losses or exp le submitted to | enses inc | curred by | the clien but not a | t if such lo: nalvzed. Ti | sses are due to circumst nese terms will be enfor | tances be ced unle | eyong the control ss previously negotiated | l. | | |

Received by: (Signature) Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature)

Revised Date 08/25/2020 Rev 2020 2

Date/Time

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4600-1 SDG Number: 03D2024186

Login Number: 4600 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: 890-4600-1

SDG Number: 03D2024186

3DG Nulliber: 03D2024100

List Source: Eurofins Midland
List Number: 2
List Creation: 05/03/23 10:57 AM

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/31/2023 9:55:06 AM

JOB DESCRIPTION

Warbler State Com 2Y SDG NUMBER 32.4565,-103.5795

JOB NUMBER

890-4726-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated 5/31/2023 9:55:06 AM

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

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Client: Ensolum Laboratory Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y

SDG: 32.4565,-103.5795

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Definitions/Glossary

Job ID: 890-4726-1 Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Qualifiers

GC VOA Qualifier

LCS and/or LCSD is outside acceptance limits, high biased.

Qualifier Description

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

GC Semi VOA

Qualifier **Qualifier Description** LCS/LCSD RPD exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

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

EDL LOD

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**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin)

LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA

Limit of Detection (DoD/DOE)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

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: Warbler State Com 2Y

Job ID: 890-4726-1

SDG: 32.4565,-103.5795

Job ID: 890-4726-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4726-1

Receipt

The samples were received on 5/23/2023 4:53 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4726-1), FS02 (890-4726-2), FS03 (890-4726-3), FS04 (890-4726-4), FS05 (890-4726-5), SS05 (890-4726-6), SS05A (890-4726-7), SS06 (890-4726-8), SS06A (890-4726-9), SS07 (890-4726-10), SS07A (890-4726-11), SS08 (890-4726-12), SS08A (890-4726-13), SS09 (890-4726-14), SS09A (890-4726-15), SS10 (890-4726-16), SS10A (890-4726-17), SS11 (890-4726-18), SS11A (890-4726-19), SS12 (890-4726-20), SS12A (890-4726-21), SS13 (890-4726-22), SS13A (890-4726-23), SS14 (890-4726-24) and SS14A (890-4726-25).

GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 880-54206 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-54206/11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-54098 and analytical batch 880-54206 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54206 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54206/6). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54265/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-54265 and analytical batch 880-54206 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54265 and analytical batch 880-54206 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54318/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-54318 and analytical batch 880-54336 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-54318 and analytical batch 880-54336 recovered outside control limits for the following analytes: Benzene.

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

Eurofins Carlsbad 5/31/2023

Case Narrative

Client: Ensolum

Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Job ID: 890-4726-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-54161 and analytical batch 880-54121 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-54161 and analytical batch 880-54121 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-54121 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-54121/31).

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS02 (890-4726-2), SS05A (890-4726-7) and SS08 (890-4726-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-54172 and analytical batch 880-54197 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-54197/20). 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 880-54140 and analytical batch 880-54186 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.

Lab Sample ID: 890-4726-1

Job ID: 890-4726-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: FS01

Date Collected: 05/23/23 10:55 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------------------------|------------|--------------------------|-------|----------|--|--|-------------------------------|
| Benzene | <0.00202 | U *+ F1 | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 83 | | 70 - 130 | | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 05/26/23 15:50 | 05/27/23 23:53 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 05/31/23 10:19 | 1 |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 05/30/23 15:35 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 11:01 | 1 |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 11:01 | |
| | | | | 0 0 | | | 05/26/23 11:01 | 1 |
| , | | | | | | | | |
| , | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 11:01 | |
| Oll Range Organics (Over C28-C36) Surrogate | %Recovery | | Limits | | | 05/25/23 13:43 Prepared | 05/26/23 11:01 Analyzed | 1 |
| C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | | | | | | 05/25/23 13:43 | 05/26/23 11:01 | 1 Dil Fac |
| Oll Range Organics (Over C28-C36) Surrogate | %Recovery | | Limits | | | 05/25/23 13:43 Prepared | 05/26/23 11:01 Analyzed | Dil Fac |
| Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | %Recovery 103 112 | Qualifier | Limits 70 - 130 70 - 130 | | | 05/25/23 13:43 Prepared 05/25/23 13:43 | 05/26/23 11:01 Analyzed 05/26/23 11:01 | 1 1 <i>Dil Fac</i> 1 |
| Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | %Recovery 103 112 Chromatograp | Qualifier | Limits 70 - 130 70 - 130 | | <u>D</u> | 05/25/23 13:43 Prepared 05/25/23 13:43 | 05/26/23 11:01 Analyzed 05/26/23 11:01 | 1 Dil Fac |

Client Sample ID: FS02

Date Collected: 05/23/23 11:00

Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U *+ | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:20 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:20 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:20 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:20 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:20 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 00:20 | |

Eurofins Carlsbad

Lab Sample ID: 890-4726-2

Matrix: Solid

Lab Sample ID: 890-4726-2

Job ID: 890-4726-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: FS02

Date Collected: 05/23/23 11:00 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Method: SW846 8021B | - Volatile Organic | Compounds (| GC) | (Continued) |
|--------------------------|--------------------|-------------|-----|-------------|
| Michiga. Strotto duz i B | - Voiatile Organic | Compounds (| 901 | Continueu |

| Surrogate | %Recovery Q | Qualifier Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-------------|------------------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 104 | 70 - 130 | 05/26/23 15:50 | 05/28/23 00:20 | 1 |

| Mothod: TAL SOP | Total RTFY - Tota | I BTEX Calculation |
|-----------------|-------------------|--------------------|
| Method. TAL OUT | TOTAL DIEX - TOTA | I DIEA Calculation |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 05/31/23 10:19 | 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 | | | 05/30/23 15:35 | 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 | | 05/25/23 13:43 | 05/26/23 12:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 12:38 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 12:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 123 | 70 - 130 | 05/25/23 13:43 | 05/26/23 12:38 | 1 |
| o-Terphenyl | 134 S1+ | 70 - 130 | 05/25/23 13:43 | 05/26/23 12:38 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 137 | 4.97 | mg/Kg | | | 05/25/23 21:47 | 1 |

Client Sample ID: FS03 Lab Sample ID: 890-4726-3

Date Collected: 05/23/23 11:20 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Method: SW846 802 | 1B - Volatile Orga | inic Compounds (GC) |
|-------------------|--------------------|---------------------|

| Michiga. Offoro ouz 15 - Volunt | , Organic Comp | | , | | | | | |
|---------------------------------|----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00198 | U *+ | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 00:46 | 1 |

| Mothod: TAI | SOP Total RTFY | - Total RTFY | Calculation |
|-------------|----------------|--------------|-------------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00396 | U | 0.00396 | ma/Ka | | | 05/31/23 10:19 | 1 |

| Analyte | 3 - 3 - 3 | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 L | J | 49.8 | mg/Kg | | | 05/30/23 15:35 | 1 |

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Matrix: Solid

Lab Sample ID: 890-4726-3

05/25/23 21:52

Job ID: 890-4726-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: FS03

Date Collected: 05/23/23 11:20 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 13:00 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 13:00 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 13:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 121 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 13:00 | 1 |
| o-Terphenyl | 128 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 13:00 | 1 |

Client Sample ID: FS04 Lab Sample ID: 890-4726-4 Date Collected: 05/23/23 12:50 Matrix: Solid

4.98

mg/Kg

62.3

Date Received: 05/23/23 16:53

Sample Depth: 0.5'

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------------------|-------------------------|----------------------------|---------------|----------|--|--|---------|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 84 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 01:13 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 05/31/23 10:19 | 1 |
| - Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) (0 | GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 05/30/23 15:35 | 1 |
| | | | | | | | | |
| - Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| | | nics (DRO) Qualifier | (GC) | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | | Qualifier | • • | Unit mg/Kg | <u>D</u> | Prepared 05/25/23 13:43 | Analyzed 05/26/23 13:22 | Dil Fac |
| Analyte Gasoline Range Organics | Result | Qualifier U | RL | | <u>D</u> | | | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result | Qualifier U | RL 49.8 | mg/Kg | <u>D</u> | 05/25/23 13:43 | 05/26/23 13:22 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <49.8 | Qualifier U U U | 49.8 49.8 | mg/Kg | <u>D</u> | 05/25/23 13:43 05/25/23 13:43 | 05/26/23 13:22 05/26/23 13:22 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <49.8 <49.8 <49.8 | Qualifier U U U | RL 49.8 49.8 49.8 | mg/Kg | <u>D</u> | 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 | 05/26/23 13:22 05/26/23 13:22 05/26/23 13:22 | 1 |

Job ID: 890-4726-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: FS04 Lab Sample ID: 890-4726-4

Date Collected: 05/23/23 12:50 Matrix: Solid Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 71.2 | | 4.98 | mg/Kg | | | 05/25/23 21:58 | 1 |

Client Sample ID: FS05 Lab Sample ID: 890-4726-5

Date Collected: 05/23/23 12:55 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U *+ | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:39 | |
| Toluene | < 0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:39 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:39 | |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:39 | |
| o-Xylene | < 0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:39 | |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | | 05/26/23 15:50 | 05/28/23 01:39 | • |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 01:39 | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 01:39 | |
| Method: TAL SOP Total BTEX - To | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 05/31/23 10:19 | |
| Method: SW846 8015 NM - Diese | Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 05/30/23 15:35 | • |
| Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 13:44 | • |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 13:44 | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 13:44 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 113 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 13:44 | |
| o-Terphenyl | 121 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 13:44 | |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 41.9 | | 5.02 | mg/Kg | | | 05/25/23 22:03 | 1 |

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS05 Lab Sample ID: 890-4726-6

Date Collected: 05/23/23 10:40

Date Received: 05/23/23 16:53

Matrix: Solid

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|---|--|-------------------------------|----------|--|--|-------------------------|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 02:06 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 05/31/23 10:19 | 1 |
| : Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) (0 | GC) | | | | | |
| Method: SW846 8015 NM - Diese Analyte | | ics (DRO) (0 Qualifier | GC) | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte | | Qualifier | • | | <u>D</u> | Prepared | | |
| Analyte Total TPH | Result < 50.0 | Qualifier U | 50.0 | Unit | <u>D</u> | Prepared | Analyzed | |
| Analyte Total TPH Method: SW846 8015B NM - Dies | Result <50.0 | Qualifier U | RL 50.0 | Unit mg/Kg | | | Analyzed 05/30/23 15:35 | 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte | Result <50.0 sel Range Orga Result | Qualifier Unics (DRO) Qualifier | RL 50.0 (GC) | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 05/30/23 15:35 Analyzed | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies | Result <50.0 | Qualifier Unics (DRO) Qualifier | RL 50.0 | Unit mg/Kg | | | Analyzed 05/30/23 15:35 | 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result | Qualifier U nics (DRO) Qualifier U | RL 50.0 (GC) | Unit mg/Kg | | Prepared | Analyzed 05/30/23 15:35 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 | Qualifier U nics (DRO) Qualifier U | RL 50.0 (GC) RL 50.0 50.0 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 05/26/23 14:06 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U | RL 50.0 (GC) RL 50.0 | Unit mg/Kg Unit mg/Kg | | Prepared 05/25/23 13:43 | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 05/26/23 14:06 | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 50.0 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 05/26/23 14:06 | Dil Face 1 1 1 Dil Face |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | Result <50.0 | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i> | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 Prepared | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 05/26/23 14:06 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | Result <50.0 | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 Prepared 05/25/23 13:43 | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 05/26/23 14:06 Analyzed 05/26/23 14:06 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | Result <50.0 | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 Prepared 05/25/23 13:43 | Analyzed 05/30/23 15:35 Analyzed 05/26/23 14:06 05/26/23 14:06 Analyzed 05/26/23 14:06 | Dil Fac |

Client Sample ID: SS05A Lab Sample ID: 890-4726-7

Date Collected: 05/23/23 10:45 Matrix: Solid

Sample Depth: 1.0'

Date Received: 05/23/23 16:53

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 02:32 | 1 |

Client: Ensolum

Job ID: 890-4726-1

Project/Site: Warbler State Com 2Y

SDG: 32 4565 -103 5795

Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS05A

Date Collected: 05/23/23 10:45

Matrix: Solid

Date Received: 05/23/23 16:53 Sample Depth: 1.0'

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

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1.4-Difluorobenzene (Surr) | 103 | 70 - 130 | 05/26/23 15:50 | 05/28/23 02:32 | 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 | | | 05/31/23 10:19 | 1 |

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

| | 95 59 (2.1.5) (5 | -, | | | | | |
|-----------|------------------|------|-------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 U | 50.0 | mg/Kg | | | 05/30/23 15:35 | 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 | | 05/25/23 13:43 | 05/26/23 14:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 14:28 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 14:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 128 | 70 - 130 | 05/25/23 13:43 | 05/26/23 14:28 | 1 |
| o-Terphenyl | 136 S1+ | 70 - 130 | 05/25/23 13:43 | 05/26/23 14:28 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 65.5 | | 5.04 | mg/Kg | | | 05/25/23 22:25 | 1 |

Client Sample ID: SS06 Lab Sample ID: 890-4726-8

Date Collected: 05/23/23 12:05 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

1,4-Difluorobenzene (Surr)

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

| Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00201 U *+ 0.00201 mg/Kg 05/26/23 15:50 05/28/23 02:59 Toluene <0.00201 U 0.00201 mg/Kg 05/26/23 15:50 05/28/23 02:59 Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/26/23 15:50 05/28/23 02:59 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 05/26/23 15:50 05/28/23 02:59 o-Xylene <0.00201 U 0.00201 mg/Kg 05/26/23 15:50 05/28/23 02:59 Xylenes, Total <0.00402 U 0.00402 mg/Kg 05/26/23 15:50 05/28/23 02:59 Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 70, 130 05/26/23 15:50 05/28/23 02:59 | Method. Syvoto ouz 1D - Volatile | organic comp | ounus (OC | , | | | | | |
|---|----------------------------------|--------------|-----------|----------|-------|---|----------------|----------------|---------|
| Toluene <0.00201 | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/26/23 15:50 05/28/23 02:59 m-Xylene & p-Xylene <0.00402 | Benzene | <0.00201 | U *+ | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |
| m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 05/26/23 15:50 05/28/23 02:59 o-Xylene <0.00201 | Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |
| o-Xylene <0.00201 U 0.00201 mg/Kg 05/26/23 15:50 05/28/23 02:59 Xylenes, Total <0.00402 U 0.00402 mg/Kg 05/26/23 15:50 05/28/23 02:59 Surrogate %Recovery Qualifier Limits Prepared Analyzed | Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |
| Xylenes, Total <0.00402 U 0.00402 mg/Kg 05/26/23 15:50 05/28/23 02:59 Surrogate %Recovery Qualifier Limits Prepared Analyzed | m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |
| Surrogate | o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |
| | Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |
| 4. Bromoffuorohenzene (Surr) 87 70 130 05/26/23 15:50 05/28/23 02:50 | Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-biomoliuoropenzene (ouri) 03/20/23 13.30 03/20/23 02.39 | 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 02:59 | 1 |

| ı | | | | | |
|---|-------------|-------|-----------|-----------|-------------|
| ı | Method: TAI | SOD T | otal RTEY | Total RTE | Calculation |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 05/31/23 10:19 | 1 |

70 - 130

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 | | | 05/30/23 15:35 | 1 |

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05/28/23 02:59

05/26/23 15:50

1

3

4

6

8

10

12

13

Matrix: Solid

Job ID: 890-4726-1

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS06 Lab Sample ID: 890-4726-8

Date Collected: 05/23/23 12:05 Matrix: Solid Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 14:50 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 14:50 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 14:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 120 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 14:50 | 1 |
| o-Terphenyl | 124 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 14:50 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte | | | | | | | | |

Client Sample ID: SS06A Lab Sample ID: 890-4726-9 Matrix: Solid

Date Collected: 05/23/23 12:10 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U *+ | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 03:26 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 05/31/23 10:19 | 1 |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 05/30/23 15:35 | 1 |
| Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 15:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 15:13 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 15:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 15:13 | 1 |
| o-Terphenyl | 117 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 15:13 | 1 |

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5/31/2023

Chefit Sample

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS06A Lab Sample ID: 890-4726-9

Date Collected: 05/23/23 12:10

Date Received: 05/23/23 16:53

Matrix: Solid

Sample Depth: 1.0'

| Method: EPA 300.0 - Anions, Ion Ch | romatograp | hy - Soluble | | | | | | |
|------------------------------------|------------|--------------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 61.1 | | 4.96 | mg/Kg | | | 05/25/23 22:35 | 1 |

Client Sample ID: SS07

Date Collected: 05/23/23 12:30

Lab Sample ID: 890-4726-10

Matrix: Solid

Date Collected: 05/23/23 12:30 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U *+ | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:53 | |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:53 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:53 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:53 | |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:53 | |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 03:53 | • |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 03:53 | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 03:53 | |
| Method: TAL SOP Total BTEX - To | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 05/31/23 10:19 | |
| Method: SW846 8015 NM - Diese | Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 05/30/23 15:35 | • |
| Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 15:35 | • |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 15:35 | |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 15:35 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 106 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 15:35 | |
| o-Terphenyl | 114 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 15:35 | |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 48.2 | | 5.05 | mg/Kg | | | 05/25/23 22:41 | 1 |

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS07A Lab Sample ID: 890-4726-11

Date Collected: 05/23/23 12:35

Matrix: Solid

Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|-------------|----------------------------------|----------------|---|--|--|---|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 05:40 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 05/30/23 15:35 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | DilE |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 16:48 | DII Fac |
| | | | | | | | | |
| 5 5 , | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 16:48 | 1 |
| C10-C28) | <49.9 <49.9 | | 49.9 49.9 | mg/Kg mg/Kg | | 05/25/23 13:43 05/25/23 13:43 | 05/26/23 16:48 05/26/23 16:48 | 1 |
| Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | | U | | | | | | 1 |
| C10-C28) OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | | 05/25/23 13:43 | 05/26/23 16:48 | 1 1 1 Dil Fac |
| C10-C28) Oll Range Organics (Over C28-C36) Surrogate | <49.9 %Recovery | U | 49.9 | | | 05/25/23 13:43 Prepared | 05/26/23 16:48 Analyzed | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion | <49.9 **Recovery 119 125 Chromatograp | Qualifier | 49.9 Limits 70 - 130 70 - 130 | mg/Kg | | 05/25/23 13:43 Prepared 05/25/23 13:43 | 05/26/23 16:48 Analyzed 05/26/23 16:48 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | <49.9 **Recovery 119 125 Chromatograp | U Qualifier | 49.9 Limits 70 - 130 70 - 130 | | | 05/25/23 13:43 Prepared 05/25/23 13:43 | 05/26/23 16:48 Analyzed 05/26/23 16:48 | Dil Face Dil Face Dil Face Dil Face 1 |

Client Sample ID: SS08

Lab Sample ID: 890-4726-12

Date Collected: 05/23/23 13:05

Matrix: Solid

Date Collected: 05/23/23 13:05 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U *+ | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 06:06 | 1 |

Lab Sample ID: 890-4726-12

Client Sample Results

Client: Ensolum Job ID: 890-4726-1

Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS08 Date Collected: 05/23/23 13:05 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Mothod: SW946 9021B | · Volatile Organic Compounds | (GC) (Continued) |
|------------------------|------------------------------|--------------------|
| WELLIOU. 344040 002 1D | · Voiatile Organic Combounds | (GC) (COIIIIIIueu) |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 05/26/23 15:50 | 05/28/23 06:06 | 1 |

| Method: TAL SOP | Total RTFX - Total | RTFX Calculation |
|--------------------|--------------------|------------------|
| Mictiliou. IAL OOI | TOTAL DIEX - TOTAL | DIEA Galcalation |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 05/31/23 10:19 | 1 |

| Method: SW846 8015 NM | - Diesal Range | Organice | (DRO) | (CC) | ï |
|----------------------------|----------------|----------|-------|--------------|---|
| MICHICA. STACTO CO 12 IAIN | - Diesei Kange | Organics | | \mathbf{U} | , |

| Analyte | Result C | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 59.9 | | 49.9 | mg/Kg | | | 05/30/23 15:35 | 1 |

| Method: SW846 8015B NM - Diesel Range Organics | (DRO) | (GC) | ١ |
|---|--------|-----------|---|
| motified. Offerto College Ithin Biodol Rungo Organico | (5.10) | , , , , , | , |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|---------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:10 | 1 |
| Diesel Range Organics (Over C10-C28) | 59.9 | | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:10 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:10 | 1 |
| Surrogate | %Recovery | Qualifier | l imite | | | Prenared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121 | 70 - 130 | 05/25/23 13:43 | 05/26/23 17:10 | 1 |
| o-Terphenyl | 131 S1+ | 70 - 130 | 05/25/23 13:43 | 05/26/23 17:10 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 145 | | 4.98 | mg/K | g | | 05/25/23 23:02 | 1 |

Client Sample ID: SS08A Lab Sample ID: 890-4726-13 Matrix: Solid

Date Collected: 05/23/23 13:10 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

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

| | | | , | | | | | |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00199 | U *+ | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| 1 1 Differenchemanne (Comm) | 00 | | 70 120 | | | 05/06/02 15:50 | 05/09/03 06:33 | 1 |

| Surrogate | %Recovery | Quaimer | Limits | Prepared | Anaryzea | DII Fac |
|-----------------------------|-----------|---------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | 05/26/23 15:50 | 05/28/23 06:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 05/26/23 15:50 | 05/28/23 06:33 | 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 | | | 05/31/23 10:19 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 58.4 | | 50.0 | mg/Kg | | | 05/30/23 15:35 | 1 |

Lab Sample ID: 890-4726-13

05/25/23 23:07

Client: Ensolum

242

Job ID: 890-4726-1

Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Date Collected: 05/23/23 13:10 Date Received: 05/23/23 16:53

Client Sample ID: SS08A

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:32 | 1 |
| Diesel Range Organics (Over C10-C28) | 58.4 | | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:32 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 110 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 17:32 | 1 |
| o-Terphenyl | 117 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 17:32 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: SS09 Lab Sample ID: 890-4726-14 Matrix: Solid

4.97

mg/Kg

Date Collected: 05/23/23 13:15 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------------------|-------------|----------------------|-------|-----|--|--|---------|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 07:00 | 1 |
| Method: TAL SOP Total BTEX - 1 | otal BTEX Calo | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 05/31/23 10:19 | 1 |
| - Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 05/30/23 15:35 | 1 |
| - Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| | | O 116 | · · · · | | _ | Prepared | Analyzed | |
| Analyte | Result | Qualifier | RL | Unit | D | | raidiyeda | Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <49.8 | | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:54 | Dil Fac |
| Gasoline Range Organics | | U | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 13:43 | 05/26/23 17:54 | 1 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <49.8 <49.8 | U U | 49.8 | mg/Kg | — Ё | 05/25/23 13:43 05/25/23 13:43 | 05/26/23 17:54 05/26/23 17:54 | 1 1 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <49.8 <49.8 <49.8 | U U | 49.8 49.8 49.8 | mg/Kg | | 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 | 05/26/23 17:54 05/26/23 17:54 05/26/23 17:54 | 1 |

Client: Ensolum

Job ID: 890-4726-1

SDG: 32.4565,-103.5795

Client Sample ID: SS09

Date Collected: 05/23/23 13:15 Date Received: 05/23/23 16:53

Project/Site: Warbler State Com 2Y

Sample Depth: 0.5'

Lab Sample ID: 890-4726-14

Matrix: Solid

Matrix: Solid

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|----------|-----------------|------|-------|---|----------|----------------|---------|--|
| | Analyte | Result Qualifie | r RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| | Chloride | 78.2 | 5.01 | mg/Kg | | | 05/25/23 23:24 | 1 | |

Client Sample ID: SS09A Lab Sample ID: 890-4726-15

Date Collected: 05/23/23 13:20 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

Analyte

Total BTEX

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 83 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 07:28 | 1 |

| í | - - - - | Dames Ourse | : (DDO) (| 00) | | | | | |
|---|----------------------------------|-------------|-----------|-----------|-------|--------------|----------|----------------|---------|
| | Method: SW846 8015 NM - Diesel I | | | · · · · · | 1114 | - | D | A l | D!! E |
| | Analyte | | Qualifier | RL | Unit | _ | Prepared | Analyzed | Dil Fac |
| | Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 05/30/23 15:35 | 1 |

0.00400

Unit

mg/Kg

Prepared

Analyzed

05/31/23 10:19

Dil Fac

Result Qualifier

<0.00400 U

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 18:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 18:15 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 13:43 | 05/26/23 18:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 18:15 | 1 |
| o-Terphenyl | 116 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 18:15 | 1 |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|----------|----------|-----------|------|-------|---|----------|----------------|---------|
| | Analyte | Result C | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 60.2 | | 5.04 | mg/Kg | | | 05/25/23 23:29 | 1 |

Client Sample Results

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS10 Lab Sample ID: 890-4726-16

Date Collected: 05/23/23 13:25

Date Received: 05/23/23 16:53

Matrix: Solid

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|-------------------------------------|---|---------------------------|--------------|--|---|---------------------------------|
| Benzene | <0.00202 | U *+ | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 84 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 07:55 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 05/31/23 10:19 | 1 |
| Method: SW846 8015 NM - Diese | al Range Organ | ics (DRO) ((| GC) | | | | | |
| mothod. Offoro out of the Blood | n italige Organ | 100 (5110) (| | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte Total TPH | Result | | RL 49.9 | Mg/Kg | <u>D</u> | Prepared | Analyzed 05/30/23 15:35 | |
| | <49.9 | U | 49.9 | | <u>D</u> | Prepared | | |
| Total TPH | <49.9 | U | 49.9 | | <u>D</u> | Prepared Prepared | | Dil Fac Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | <49.9 | nics (DRO) Qualifier | 49.9 (GC) | mg/Kg | | | 05/30/23 15:35 | 1 |
| Total TPH Method: SW846 8015B NM - Dies | <49.9 sel Range Orga Result | nics (DRO) Qualifier | 49.9 (GC) | mg/Kg | | Prepared | 05/30/23 15:35 Analyzed | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <49.9 sel Range Orga Result <49.9 | nics (DRO) Qualifier U | (GC) RL 49.9 | mg/Kg Unit mg/Kg | | Prepared 05/25/23 13:43 | 05/30/23 15:35 Analyzed 05/26/23 18:37 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <49.9 sel Range Orga Result <49.9 <49.9 | Oualifier U | (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 | 05/30/23 15:35 Analyzed 05/26/23 18:37 05/26/23 18:37 | 1 Dil Fac 1 1 |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 | Oualifier U | 49.9 (GC) RL 49.9 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 | 05/30/23 15:35 Analyzed 05/26/23 18:37 05/26/23 18:37 | Dil Fac 1 1 Dil Fac Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery | Oualifier U | 49.9 (GC) RL 49.9 49.9 49.9 Limits | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 Prepared | 05/30/23 15:35 Analyzed 05/26/23 18:37 05/26/23 18:37 Analyzed | Dil Fac 1 1 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 121 127 | Oualifier U Qualifier U Qualifier | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 Prepared 05/25/23 13:43 | 05/30/23 15:35 Analyzed 05/26/23 18:37 05/26/23 18:37 Analyzed 05/26/23 18:37 | 1 Dil Fac 1 Dil Fac 1 |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | \$\sel \text{Range Orga} \frac{\text{Result}}{<49.9}\$ \$\sell \text{49.9}\$ \$\sell \text{Recovery}\$ \$\frac{\text{Recovery}}{121}\$ \$\text{127}\$ \$\text{Chromatograph}\$ | Oualifier U Qualifier U Qualifier | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 Prepared 05/25/23 13:43 | 05/30/23 15:35 Analyzed 05/26/23 18:37 05/26/23 18:37 Analyzed 05/26/23 18:37 | 1 Dil Fac 1 Dil Fac 1 |

Client Sample ID: SS10A

Date Collected: 05/23/23 13:30

Lab Sample ID: 890-4726-17

Matrix: Solid

Date Collected: 05/23/23 13:30 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U *+ | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:23 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:23 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:23 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:23 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:23 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 08:23 | |

Client: Ensolum Project/Site: Warbler State Com 2Y Job ID: 890-4726-1

SDG: 32.4565,-103.5795

Client Sample ID: SS10A Lab Sample ID: 890-4726-17 Date Collected: 05/23/23 13:30

Matrix: Solid

Date Received: 05/23/23 16:53 Sample Depth: 1.0'

| Method: SW846 8021B - Volatile Or | ganic Compounds | (GC) | (Continued) |
|---------------------------------------|-----------------|-----------------|-------------|
| Wictiloa. Offo-to out 1B - folding Of | garne compounds | $(\cup \cup)$ | (Sontinucu) |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1.4-Difluorobenzene (Surr) | 101 | | 70 - 130 | 05/26/23 15:50 | 05/28/23 08:23 | 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 | | | 05/31/23 10:19 | 1 |

| Mothod: SW846 80 | 115 NM - Diesel | Pange Organic | e (DRO) (GC) |
|------------------|-----------------|---------------|--------------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | ma/Ka | | | 05/30/23 15:35 | 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 | | 05/25/23 13:43 | 05/26/23 18:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 18:58 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 18:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 108 | 70 - 130 | 05/25/23 13:43 | 05/26/23 18:58 | 1 |
| o-Terphenyl | 114 | 70 - 130 | 05/25/23 13:43 | 05/26/23 18:58 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 105 | | 5.05 | mg/K | | | 05/25/23 23:40 | 1 |

Client Sample ID: SS11 Lab Sample ID: 890-4726-18 **Matrix: Solid**

Date Collected: 05/23/23 13:35 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

1,4-Difluorobenzene (Surr)

| Method: SW846 8021B - | M-1-4!1- O | 0 (00) |
|-----------------------|------------|--------|
| | | |
| | | |

| Wiethou. Syvoto ouz ID - Volat | ne Organic Comp | ounus (GC | , | | | | | |
|--------------------------------|-----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00201 | U *+ | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 08:50 | 1 |
| | | | | | | | | |

| Method: TAI | SOP Total BTEX - Total BTEX Calculation | |
|-------------|---|--|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | ma/Ka | | | 05/31/23 10:19 | 1 |

70 - 130

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 | | | 05/30/23 15:35 | 1 |

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05/28/23 08:50

05/26/23 15:50

Client: Ensolum Job ID: 890-4726-1

Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS11 Lab Sample ID: 890-4726-18

Date Collected: 05/23/23 13:35 Matrix: Solid Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 19:20 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 19:20 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 19:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 19:20 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | | | 05/25/23 13:43 | 05/26/23 19:20 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: SS11A Lab Sample ID: 890-4726-19 Matrix: Solid

5.02

mg/Kg

Date Collected: 05/23/23 13:40

64.1

Date Received: 05/23/23 16:53

Sample Depth: 1.0'

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|-------------------------|----------------------------|------------------------|----------|--|---|---------------|
| Benzene | <0.00201 | U *+ | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 09:18 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 05/31/23 10:19 | 1 |
| Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) ((| GC) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | | | | | | | | |
| IOIAI IPH | <49.9 | U | 49.9 | mg/Kg | | | 05/30/23 15:35 | 1 |
| - - | | | | mg/Kg | | | 05/30/23 15:35 | |
| : Method: SW846 8015B NM - Dies | sel Range Orga | | | mg/Kg Unit | D | Prepared | 05/30/23 15:35 Analyzed | |
| Method: SW846 8015B NM - Dies Analyte | sel Range Orga | nics (DRO) Qualifier | (GC) | | <u>D</u> | Prepared 05/25/23 13:43 | | 1 |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | sel Range Orga Result | nics (DRO) Qualifier | (GC) | Unit | <u>D</u> | | Analyzed | 1 Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | sel Range Orga Result | unics (DRO) Qualifier | (GC) | Unit | <u>D</u> | | Analyzed | 1 Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | sel Range Orga Result <49.9 <49.9 | Qualifier U | (GC) RL 49.9 | Unit mg/Kg mg/Kg | <u>D</u> | 05/25/23 13:43 05/25/23 13:43 | Analyzed 05/26/23 19:41 05/26/23 19:41 | 1 Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | sel Range Orga Result <49.9 | Qualifier U | (GC) RL 49.9 | Unit mg/Kg | <u>D</u> | 05/25/23 13:43 | Analyzed 05/26/23 19:41 | Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | sel Range Orga Result <49.9 <49.9 | Qualifier U | (GC) RL 49.9 | Unit mg/Kg mg/Kg | <u>D</u> | 05/25/23 13:43 05/25/23 13:43 | Analyzed 05/26/23 19:41 05/26/23 19:41 | 1 Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | sel Range Orga Result <49.9 <49.9 <49.9 | Qualifier U | (GC) RL 49.9 49.9 49.9 | Unit mg/Kg mg/Kg | <u>D</u> | 05/25/23 13:43 05/25/23 13:43 05/25/23 13:43 | Analyzed 05/26/23 19:41 05/26/23 19:41 05/26/23 19:41 | 1 Dil Fac 1 1 |

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05/25/23 23:45

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS11A Lab Sample ID: 890-4726-19 Date Collected: 05/23/23 13:40

Date Received: 05/23/23 16:53

Matrix: Solid

Sample Depth: 1.0'

| Method: EPA 300.0 - Anions, Ion C | hromatography - Solub | le | | | | | |
|-----------------------------------|-----------------------|------|-------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 84.1 | 4.98 | mg/Kg | | | 05/25/23 23:50 | 1 |

Client Sample ID: SS12 Lab Sample ID: 890-4726-20

Date Collected: 05/23/23 13:45 Matrix: Solid

Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|---|---------------------------------------|--------------------------------------|----------|--|---|---------|
| Benzene | <0.00199 | U *+ | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:45 | |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:45 | • |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:45 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:45 | |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:45 | |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 05/26/23 15:50 | 05/28/23 09:45 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 09:45 | |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 05/26/23 15:50 | 05/28/23 09:45 | |
| Method: TAL SOP Total BTEX - | Total BTEX Cald | ulation | | | | | | |
| | | | | | _ | | | D:: F- |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | DII Fa |
| Total BTEX Method: SW846 8015 NM - Dies | <0.00398 | U ics (DRO) (| 0.00398 GC) | mg/Kg | | | 05/31/23 10:19 | |
| Total BTEX Method: SW846 8015 NM - Dies Analyte | <0.00398 sel Range Organ Result | ics (DRO) (Qualifier | 0.00398 GC) | mg/Kg | D | Prepared | | |
| Total BTEX Method: SW846 8015 NM - Dies | <0.00398 | ics (DRO) (Qualifier | 0.00398 GC) | mg/Kg | | | 05/31/23 10:19 | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Dies Analyte | <0.00398 sel Range Organ Result <50.0 | U ics (DRO) (Qualifier U | 0.00398 GC) RL 50.0 | mg/Kg | | | 05/31/23 10:19 Analyzed | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH | <0.00398 sel Range Organ Result <50.0 essel Range Organ | U ics (DRO) (Qualifier U | 0.00398 GC) RL 50.0 | mg/Kg | | | 05/31/23 10:19 Analyzed | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die | <0.00398 sel Range Organ Result <50.0 essel Range Organ | ics (DRO) (Qualifier Unics (DRO) Qualifier | 0.00398 GC) RL 50.0 (GC) | mg/Kg Unit mg/Kg | <u>D</u> | Prepared | 05/31/23 10:19 Analyzed 05/30/23 15:35 | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GR0)-C6-C10 Diesel Range Organics (Over | <0.00398 sel Range Organ Result <50.0 esel Range Orga Result | ics (DRO) (Qualifier U nics (DRO) Qualifier U U | 0.00398 GC) RL 50.0 (GC) RL | mg/Kg Unit mg/Kg Unit | <u>D</u> | Prepared Prepared | 05/31/23 10:19 Analyzed 05/30/23 15:35 Analyzed | Dil Fa |
| Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 | <0.00398 sel Range Organ Result <50.0 sesel Range Orga Result <50.0 | ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U | 0.00398 RL 50.0 (GC) RL 50.0 | mg/Kg Unit mg/Kg Unit mg/Kg | <u>D</u> | Prepared 05/25/23 13:43 | 05/31/23 10:19 Analyzed 05/30/23 15:35 Analyzed 05/26/23 20:03 | Dil Fa |
| Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <0.00398 sel Range Organ Result <50.0 sesel Range Orga Result <50.0 <50.0 | ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U | 0.00398 RL 50.0 (GC) RL 50.0 50.0 | mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg | <u>D</u> | Prepared 05/25/23 13:43 05/25/23 13:43 | 05/31/23 10:19 Analyzed 05/30/23 15:35 Analyzed 05/26/23 20:03 05/26/23 20:03 | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <0.00398 sel Range Organ Result <50.0 esel Range Organ Result <50.0 <50.0 <50.0 <50.0 | ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U | 0.00398 RL 50.0 RL 50.0 S0.0 50.0 | mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg | <u>D</u> | Prepared 05/25/23 13:43 05/25/23 13:43 | 05/31/23 10:19 Analyzed 05/30/23 15:35 Analyzed 05/26/23 20:03 05/26/23 20:03 | Dil Fa |

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05/25/23 23:56

4.98

mg/Kg

189

Chloride

Matrix: Solid

Client: Ensolum Job ID: 890-4726-1

Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS12A Lab Sample ID: 890-4726-21 Date Collected: 05/23/23 13:50 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|--|---|-------------------------------|----------|--|--|-------------------------|
| Benzene | <0.00199 | U *+ F1 | 0.00199 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| Toluene | 0.00436 | | 0.00199 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| m-Xylene & p-Xylene | 0.00467 | | 0.00398 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| o-Xylene | 0.00237 | | 0.00199 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| Xylenes, Total | 0.00704 | | 0.00398 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 12:32 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | 0.0114 | | 0.00398 | mg/Kg | | | 05/31/23 10:24 | 1 |
| Method: SW846 8015 NM - Diese | • | | GC) | | | | | |
| | • | | GC) | | D | Prepared | | Dil Fac |
| Analyte | • | Qualifier | | Unitmg/Kg | <u>D</u> | Prepared | Analyzed 05/26/23 09:04 | |
| Method: SW846 8015 NM - Diese Analyte Total TPH | Result | Qualifier | GC) | Unit | <u>D</u> | Prepared | Analyzed | |
| Analyte Total TPH | Result < 50.0 | Qualifier U | RL 50.0 | Unit | <u>D</u> | Prepared | Analyzed | |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte | Result <50.0 sel Range Orga Result | Qualifier Unics (DRO) Qualifier | RL 50.0 | Unit | <u>D</u> | Prepared Prepared | Analyzed | 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | Result <50.0 | Qualifier Unics (DRO) Qualifier | RL 50.0 | Unit mg/Kg | | | Analyzed 05/26/23 09:04 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte | Result <50.0 sel Range Orga Result | Qualifier U nics (DRO) Qualifier U | GC) RL 50.0 (GC) RL | Unit mg/Kg | | Prepared | Analyzed 05/26/23 09:04 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U | (GC) RL 50.0 RL 50.0 | Unit mg/Kg Unit mg/Kg | | Prepared 05/25/23 12:10 | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U U *1 | (GC) RL 50.0 RL 50.0 | Unit mg/Kg Unit mg/Kg | | Prepared 05/25/23 12:10 | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U *1 | GC) RL 50.0 (GC) RL 50.0 50.0 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 05/25/23 19:30 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U *1 U | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 05/25/23 12:10 | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 05/25/23 19:30 | Dil Face 1 1 1 Dil Face |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | Result <50.0 | Qualifier U nics (DRO) Qualifier U U *1 U | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 05/25/23 12:10 Prepared | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 05/25/23 19:30 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | Result <50.0 | Qualifier U nics (DRO) Qualifier U U*1 U Qualifier | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 05/25/23 12:10 Prepared 05/25/23 12:10 | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 05/25/23 19:30 Analyzed 05/25/23 19:30 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | Result <50.0 | Qualifier U nics (DRO) Qualifier U U*1 U Qualifier | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 05/25/23 12:10 Prepared 05/25/23 12:10 | Analyzed 05/26/23 09:04 Analyzed 05/25/23 19:30 05/25/23 19:30 Analyzed 05/25/23 19:30 | Dil Fac |

Client Sample ID: SS13 Lab Sample ID: 890-4726-22 Matrix: Solid

Date Collected: 05/23/23 13:55 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U *+ | 0.00198 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:58 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:58 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:58 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:58 | 1 |
| o-Xylene | 0.00213 | | 0.00198 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:58 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 12:58 | |

Matrix: Solid

Lab Sample ID: 890-4726-22

Client: Ensolum

Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS13

Date Collected: 05/23/23 13:55 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

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

| Surrogate | %Recovery Qu | ualifier Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|--------------|-----------------|----------------|----------------|---------|
| 1.4-Difluorobenzene (Surr) | 87 | 70 - 130 | 05/27/23 12:55 | 05/30/23 12:58 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00396 | U | 0.00396 | mg/Kg | | | 05/31/23 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 05/26/23 09:04 | 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 | | 05/25/23 12:10 | 05/25/23 19:51 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U *1 | 49.8 | mg/Kg | | 05/25/23 12:10 | 05/25/23 19:51 | 1 |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 05/25/23 12:10 | 05/25/23 19:51 | 1 |
| Surve state | 9/ D agayyamı | Ovelifier | Limita | | | Duamanad | Amalumad | Dil 500 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 116 | | 70 - 130 | 05/25/23 12:10 | 05/25/23 19:51 | 1 |
| o-Terphenyl | 129 | | 70 - 130 | 05/25/23 12:10 | 05/25/23 19:51 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 67.8 | | 5.03 | mg/Kg | | | 05/26/23 07:17 | 1 |

Client Sample ID: SS13A Lab Sample ID: 890-4726-23

Date Collected: 05/23/23 14:00 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Mothodi | CIMOAC GOOAD | Valatile Or | ganic Compour | de (CC) |
|-----------|--------------|---------------|---------------|----------|
| i wethod: | 5W846 8U21B | - volatile Ur | danic Compour | ias (GC) |

| RL | Unit | D | Prepared | Analyzad | B.: E |
|----------|--|--|---|--|--|
| 0.00000 | | | | Analyzed | Dil Fac |
| 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| 0.00400 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| 0.00400 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| Limits | | | Prepared | Analyzed | Dil Fac |
| 70 - 130 | | | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| | 0.00200 0.00400 0.00200 0.00400 | 0.00200 mg/Kg 0.00200 mg/Kg 0.00400 mg/Kg 0.00200 mg/Kg 0.00400 mg/Kg Limits | 0.00200 mg/Kg 0.00200 mg/Kg 0.00400 mg/Kg 0.00200 mg/Kg 0.00400 mg/Kg | 0.00200 mg/Kg 05/27/23 12:55 0.00200 mg/Kg 05/27/23 12:55 0.00400 mg/Kg 05/27/23 12:55 0.00200 mg/Kg 05/27/23 12:55 0.00400 mg/Kg 05/27/23 12:55 Limits Prepared | 0.00200 mg/Kg 05/27/23 12:55 05/30/23 13:25 0.00200 mg/Kg 05/27/23 12:55 05/30/23 13:25 0.00400 mg/Kg 05/27/23 12:55 05/30/23 13:25 0.00200 mg/Kg 05/27/23 12:55 05/30/23 13:25 0.00400 mg/Kg 05/27/23 12:55 05/30/23 13:25 0.00400 mg/Kg 05/27/23 12:55 05/30/23 13:25 Limits Prepared Analyzed |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzea | DII Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 | 05/27/23 12:55 | 05/30/23 13:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 05/27/23 12:55 | 05/30/23 13:25 | 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 | ma/Ka | | | 05/31/23 10:24 | |

| 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 | | | 05/26/23 09:04 | 1 |

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Cli

Date Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| ilent Sample ID: SS13A | Lab Sample ID: 890-4/26-23 |
|-------------------------------|----------------------------|
| ate Collected: 05/23/23 14:00 | Matrix: Solid |

| Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 12:10 | 05/25/23 20:12 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U *1 | 49.9 | mg/Kg | | 05/25/23 12:10 | 05/25/23 20:12 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/25/23 12:10 | 05/25/23 20:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 103 | | 70 - 130 | | | 05/25/23 12:10 | 05/25/23 20:12 | 1 |
| o-Terphenyl | 117 | | 70 - 130 | | | 05/25/23 12:10 | 05/25/23 20:12 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | le | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 115 | | 4.99 | mg/Kg | | | 05/26/23 07:22 | 1 |

Lab Sample ID: 890-4726-24 **Client Sample ID: SS14** Matrix: Solid

Date Collected: 05/23/23 14:05 Date Received: 05/23/23 16:53

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|---|--|---------------------------|----------|---|--|-----------|
| Benzene | <0.00202 | U *+ | 0.00202 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 13:52 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 05/31/23 10:24 | 1 |
| • | | | | 5 5 | | | | |
| : Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Method: SW846 8015 NM - Diese Analyte | | ics (DRO) (| GC) | Unit | D | Prepared | Analyzed | Dil Fac |
| | | Qualifier | • | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 05/26/23 09:04 | Dil Fac |
| Analyte | Result <50.0 | Qualifier U | RL 50.0 | | <u>D</u> | Prepared | | |
| Analyte Total TPH | Result <50.0 | Qualifier U | RL 50.0 | | D_ | Prepared Prepared | | 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies | Result <50.0 | Qualifier Unics (DRO) Qualifier | RL 50.0 | mg/Kg | | | 05/26/23 09:04 | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result | Qualifier U nics (DRO) Qualifier U | RL 50.0 (GC) | mg/Kg | | Prepared | 05/26/23 09:04 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <50.0 sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U U *1 | RL 50.0 (GC) RL 50.0 | mg/Kg Unit mg/Kg | | Prepared 05/25/23 12:10 | 05/26/23 09:04 Analyzed 05/25/23 20:33 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U *1 | RL 50.0 (GC) RL 50.0 50.0 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 | 05/26/23 09:04 Analyzed 05/25/23 20:33 05/25/23 20:33 | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U*1 | RL 50.0 (GC) RL 50.0 50.0 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/25/23 12:10 05/25/23 12:10 05/25/23 12:10 | 05/26/23 09:04 Analyzed 05/25/23 20:33 05/25/23 20:33 | 1 Dil Fac |

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4726-24

05/26/23 07:28

Client: Ensolum Job ID: 890-4726-1

127

<50.0 U *1

<50.0 U

%Recovery Qualifier

193

Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS14 Date Collected: 05/23/23 14:05 Date Received: 05/23/23 16:53

Chloride

| Sample Depth: 0.5 | ample Depth: 0.5 | | | | | | | | | |
|-------------------------|-----------------------------------|----|------|---|----------|----------|---------|--|--|--|
| Method: EPA 300.0 - Ani | ons, Ion Chromatography - Soluble | | | | | | | | | |
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |

Client Sample ID: SS14A Lab Sample ID: 890-4726-25

4.98

mg/Kg

Date Collected: 05/23/23 14:10 Date Received: 05/23/23 16:53

Sample Depth: 1.0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|--|------------------------------|--------------------|----------|-------------------|--|---------|
| Benzene | <0.00200 | U *+ | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| Toluene | 0.00658 | | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| m-Xylene & p-Xylene | 0.00544 | | 0.00401 | mg/Kg | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| o-Xylene | 0.00347 | | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| Xylenes, Total | 0.00891 | | 0.00401 | mg/Kg | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | | | 05/27/23 12:55 | 05/30/23 14:19 | 1 |
| | | | | | | | | |
| . Mothod: TAL SOR Total RTEY | - Total RTEY Cald | vulation | | | | | | |
| . Method: TAL SOP Total BTEX Analyte | | culation Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | RL | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 05/31/23 10:24 | Dil Fac |
| Analyte | Result 0.0155 | Qualifier | 0.00401 | | <u>D</u> | Prepared | | Dil Fac |
| Analyte Total BTEX | Result 0.0155 | Qualifier | 0.00401 | | <u>D</u> | Prepared Prepared | | Dil Fac |
| Analyte Total BTEX Method: SW846 8015 NM - Die | Result 0.0155 | Qualifier ics (DRO) (Qualifier | 0.00401 GC) | mg/Kg | | <u> </u> | 05/31/23 10:24 | 1 |
| Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH | Result 0.0155 esel Range Organ Result < 50.0 | Qualifier ics (DRO) (Qualifier U | 0.00401 GC) RL 50.0 | mg/Kg | | <u> </u> | 05/31/23 10:24 Analyzed | 1 |
| Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D | Result 0.0155 esel Range Organ Result <50.0 iesel Range Orga | Qualifier ics (DRO) (Qualifier U | 0.00401 GC) RL 50.0 (GC) | mg/Kg Unit mg/Kg | <u>D</u> | Prepared | 05/31/23 10:24 Analyzed 05/26/23 09:04 | Dil Fac |
| Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH | Result 0.0155 esel Range Organ Result <50.0 iesel Range Orga | Qualifier ics (DRO) ((Qualifier U nics (DRO) Qualifier | 0.00401 GC) RL 50.0 | mg/Kg | | <u> </u> | 05/31/23 10:24 Analyzed | 1 |

| 1-Chloro | octane | 100 | | 70 - 130 | | | 05/25/23 12:10 | 05/25/23 20:54 | 1 |
|----------|------------------------------|-------------|--------------|----------|------|---|----------------|----------------|---------|
| o-Terphe | enyl | 114 | | 70 - 130 | | | 05/25/23 12:10 | 05/25/23 20:54 | 1 |
| Method | d: EPA 300.0 - Anions, Ion C | hromatograp | hy - Soluble |) | | | | | |
| Analyte | | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

5.01

50.0

50.0

Limits

mg/Kg

mg/Kg

mg/Kg

05/25/23 12:10

05/25/23 12:10

Prepared

05/25/23 20:54

05/25/23 20:54

Analyzed

05/26/23 07:33

Dil Fac

Eurofins Carlsbad

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

C10-C28)

Surrogate

Chloride

Surrogate Summary

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-4726-1 | FS01 | 83 | 99 | |
| 890-4726-1 MS | FS01 | 78 | 122 | |
| 890-4726-1 MSD | FS01 | 86 | 121 | |
| 890-4726-2 | FS02 | 88 | 104 | |
| 890-4726-3 | FS03 | 87 | 98 | |
| 890-4726-4 | FS04 | 84 | 105 | |
| 890-4726-5 | FS05 | 94 | 105 | |
| 390-4726-6 | SS05 | 87 | 102 | |
| 890-4726-7 | SS05A | 92 | 103 | |
| 890-4726-8 | SS06 | 87 | 100 | |
| 390-4726-9 | SS06A | 87 | 104 | |
| 390-4726-10 | SS07 | 91 | 103 | |
| 890-4726-11 | SS07A | 82 | 98 | |
| 890-4726-12 | SS08 | 91 | 96 | |
| 390-4726-13 | SS08A | 87 | 98 | |
| 890-4726-14 | SS09 | 87 | 106 | |
| 890-4726-15 | SS09A | 83 | 109 | |
| 890-4726-16 | SS10 | 84 | 107 | |
| 890-4726-17 | SS10A | 94 | 101 | |
| 890-4726-18 | SS11 | 89 | 96 | |
| 890-4726-19 | SS11A | 90 | 97 | |
| 890-4726-20 | SS12 | 93 | 101 | |
| 890-4726-21 | SS12A | 82 | 89 | |
| 390-4726-21 MS | SS12A | 90 | 109 | |
| 890-4726-21 MSD | SS12A | 89 | 124 | |
| 390-4726-22 | SS13 | 86 | 87 | |
| 890-4726-23 | SS13A | 86 | 93 | |
| 390-4726-24 | SS14 | 92 | 101 | |
| 890-4726-25 | SS14A | 91 | 87 | |
| LCS 880-54265/1-A | Lab Control Sample | 84 | 118 | |
| _CS 880-54318/1-A | Lab Control Sample | 84 | 86 | |
| _CSD 880-54265/2-A | Lab Control Sample Dup | 85 | 116 | |
| _CSD 880-54318/2-A | Lab Control Sample Dup | 87 | 101 | |
| MB 880-54098/5-A | Method Blank | 53 S1- | 100 | |
| MB 880-54265/5-A | Method Blank | 53 S1- | 98 | |
| MB 880-54318/5-A | Method Blank | 54 S1- | 96 | |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| | | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------|---------------|------------------------|----------|----------|--|
| | | | 1CO1 | OTPH1 | |
| Lab Sa | mple ID | Client Sample ID | (70-130) | (70-130) | |
| 880-28 | 743-A-6-D MS | Matrix Spike | 115 | 111 | |
| 880-28 | 743-A-6-E MSD | Matrix Spike Duplicate | 108 | 109 | |
| 890-47 | 26-1 | FS01 | 103 | 112 | |

Surrogate Summary

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | 1001 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 390-4726-1 MS | FS01 | 104 | 103 | |
| 390-4726-1 MSD | FS01 | 114 | 115 | |
| 390-4726-2 | FS02 | 123 | 134 S1+ | |
| 390-4726-3 | FS03 | 121 | 128 | |
| 390-4726-4 | FS04 | 103 | 110 | |
| 390-4726-5 | FS05 | 113 | 121 | |
| 390-4726-6 | SS05 | 114 | 120 | |
| 390-4726-7 | SS05A | 128 | 136 S1+ | |
| 390-4726-8 | SS06 | 120 | 124 | |
| 390-4726-9 | SS06A | 111 | 117 | |
| 390-4726-10 | SS07 | 106 | 114 | |
| 390-4726-11 | SS07A | 119 | 125 | |
| 90-4726-12 | SS08 | 121 | 131 S1+ | |
| 390-4726-13 | SS08A | 110 | 117 | |
| 390-4726-14 | SS09 | 110 | 119 | |
| 390-4726-15 | SS09A | 108 | 116 | |
| 390-4726-16 | SS10 | 121 | 127 | |
| 390-4726-17 | SS10A | 108 | 114 | |
| 390-4726-18 | SS11 | 108 | 112 | |
| 390-4726-19 | SS11A | 114 | 119 | |
| 390-4726-20 | SS12 | 111 | 117 | |
| 390-4726-21 | SS12A | 97 | 112 | |
| 390-4726-22 | SS13 | 116 | 129 | |
| 390-4726-23 | SS13A | 103 | 117 | |
| 390-4726-24 | SS14 | 97 | 109 | |
| 390-4726-25 | SS14A | 100 | 114 | |
| CS 880-54161/2-A | Lab Control Sample | 109 | 120 | |
| .CS 880-54172/2-A | Lab Control Sample | 88 | 91 | |
| CSD 880-54161/3-A | Lab Control Sample Dup | 92 | 108 | |
| _CSD 880-54172/3-A | Lab Control Sample Dup | 87 | 93 | |
| ИВ 880-54161/1-A | Method Blank | 200 S1+ | 238 S1+ | |
| ИВ 880-54172/1-A | Method Blank | 174 S1+ | 190 S1+ | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54098/5-A

Matrix: Solid

Analysis Batch: 54206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54098

| 1 | | MB | MB | | | | | | |
|---|---------------------|-----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Benzene | <0.00200 | U | 0.00200 | mg/Kg | _ | 05/24/23 15:24 | 05/27/23 07:23 | 1 |
| | Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/24/23 15:24 | 05/27/23 07:23 | 1 |
| | Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/24/23 15:24 | 05/27/23 07:23 | 1 |
| | m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/24/23 15:24 | 05/27/23 07:23 | 1 |
| | o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/24/23 15:24 | 05/27/23 07:23 | 1 |
| | Xylenes, Total | < 0.00400 | U | 0.00400 | mg/Kg | | 05/24/23 15:24 | 05/27/23 07:23 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 53 | S1- | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

05/24/23 15:24 05/27/23 07:23 05/24/23 15:24 05/27/23 07:23

Analyzed

Prepared

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

Prep Batch: 54265

Dil Fac

Matrix: Solid

Lab Sample ID: MB 880-54265/5-A

Analysis Batch: 54206

| | IVID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| | | | | | | | | |

мв мв

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 53 | S1- | 70 - 130 | 05/26/23 15:50 | 05/27/23 22:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 05/26/23 15:50 | 05/27/23 22:59 | 1 |

Lab Sample ID: LCS 880-54265/1-A

Matrix: Solid

Analysis Batch: 54206

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 54265

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1447 | *+ | mg/Kg | | 145 | 70 - 130 | |
| Toluene | 0.100 | 0.1252 | | mg/Kg | | 125 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1183 | | mg/Kg | | 118 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2305 | | mg/Kg | | 115 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1133 | | mg/Kg | | 113 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 84 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 118 | 70 - 130 |

Lab Sample ID: LCSD 880-54265/2-A

| Matrix: Solid | | | | | | | | | Prep Type: Total/NA | | |
|-----------------------|-------|--------|-----------|-------|---|------|----------|-----|---------------------|--|--|
| Analysis Batch: 54206 | | | | | | | | | Prep Batch: 54265 | | |
| | Spike | LCSD | LCSD | | | | %Rec | | RPD | | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | | |
| Benzene | 0.100 | 0.1484 | *+ | mg/Kg | | 148 | 70 - 130 | 3 | 35 | | |

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QC Sample Results

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

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

Lab Sample ID: LCSD 880-54265/2-A

Matrix: Solid Analysis Batch: 54206 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 54265

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.1251 125 70 - 130 35 mg/Kg 0 Ethylbenzene 0.100 0.1192 mg/Kg 119 70 - 130 35 0.200 0.2303 70 - 130 m-Xylene & p-Xylene mg/Kg 115 35 0 0.100 o-Xylene 0.1133 mg/Kg 113 70 - 130 35

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 116 | | 70 - 130 |

Lab Sample ID: 890-4726-1 MS

Matrix: Solid

Analysis Batch: 54206

Client Sample ID: FS01
Prep Type: Total/NA

Prep Batch: 54265

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00202 | U *+ F1 | 0.101 | 0.1492 | F1 | mg/Kg | | 148 | 70 - 130 | |
| Toluene | <0.00202 | U | 0.101 | 0.1242 | | mg/Kg | | 123 | 70 - 130 | |
| Ethylbenzene | <0.00202 | U | 0.101 | 0.1158 | | mg/Kg | | 115 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00403 | U | 0.202 | 0.2237 | | mg/Kg | | 111 | 70 - 130 | |
| o-Xylene | <0.00202 | U | 0.101 | 0.1069 | | mg/Kg | | 106 | 70 - 130 | |
| | | | | | | | | | | |

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 78 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 122 | 70 - 130 |

Lab Sample ID: 890-4726-1 MSD

Matrix: Solid

Analysis Batch: 54206

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 54265

| _ | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|--------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00202 | U *+ F1 | 0.0994 | 0.1410 | F1 | mg/Kg | | 142 | 70 - 130 | 6 | 35 |
| Toluene | <0.00202 | U | 0.0994 | 0.1182 | | mg/Kg | | 119 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0994 | 0.1108 | | mg/Kg | | 111 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.199 | 0.2132 | | mg/Kg | | 107 | 70 - 130 | 5 | 35 |
| o-Xylene | <0.00202 | U | 0.0994 | 0.1048 | | mg/Kg | | 105 | 70 - 130 | 2 | 35 |

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 86 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 121 | 70 - 130 |

Lab Sample ID: MB 880-54318/5-A

Matrix: Solid

Analysis Batch: 54336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54318

MB MB

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:05 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:05 | 1 |

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QC Sample Results

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

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

Lab Sample ID: MB 880-54318/5-A

Matrix: Solid

Analysis Batch: 54336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54318

Prep Batch: 54318

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | _ | 05/27/23 12:55 | 05/30/23 12:05 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/27/23 12:55 | 05/30/23 12:05 | 1 |

MR MR

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 54 | S1- | 70 - 130 | 05/27/23 12:55 | 05/30/23 12:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 05/27/23 12:55 | 05/30/23 12:05 | 1 |

Lab Sample ID: LCS 880-54318/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

o-Xylene

Analysis Batch: 54336

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1172 mg/Kg 117 70 - 130 Toluene 0.100 0.1182 mg/Kg 118 70 - 130 0.100 0.1134 113 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene 0.200 0.2221 mg/Kg 111 70 - 130

0.1082

mg/Kg

0.100

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 84 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 86 | 70 - 130 |

Lab Sample ID: LCSD 880-54318/2-A

Matrix: Solid

Analysis Batch: 54336

Client Sample ID: Lab Control Sample Dup

70 - 130

108

Prep Type: Total/NA

Prep Batch: 54318

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|---------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.1369 | *+ | mg/Kg | | 137 | 70 - 130 | 16 | 35 | |
| Toluene | 0.100 | 0.1295 | | mg/Kg | | 130 | 70 - 130 | 9 | 35 | |
| Ethylbenzene | 0.100 | 0.1246 | | mg/Kg | | 125 | 70 - 130 | 9 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2431 | | mg/Kg | | 122 | 70 - 130 | 9 | 35 | |
| o-Xylene | 0.100 | 0.1180 | | mg/Kg | | 118 | 70 - 130 | 9 | 35 | |
| | | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 87 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 101 | 70 - 130 |

Lab Sample ID: 890-4726-21 MS

Matrix: Solid

Analysis Batch: 54336

Client Sample ID: SS12A

Prep Type: Total/NA

Prep Batch: 54318

| 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | | | | |
|---|----------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U *+ F1 | 0.101 | 0.1431 | F1 | mg/Kg | | 141 | 70 - 130 | |
| Toluene | 0.00436 | | 0.101 | 0.1197 | | mg/Kg | | 114 | 70 - 130 | |
| Ethylbenzene | <0.00199 | U | 0.101 | 0.1159 | | mg/Kg | | 115 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.00467 | | 0.202 | 0.2260 | | mg/Kg | | 110 | 70 - 130 | |
| o-Xylene | 0.00237 | | 0.101 | 0.1107 | | mg/Kg | | 107 | 70 - 130 | |

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

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

Lab Sample ID: 890-4726-21 MS

Matrix: Solid

Analysis Batch: 54336

Client Sample ID: SS12A Prep Type: Total/NA

Prep Batch: 54318

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 90 70 - 130 1,4-Difluorobenzene (Surr) 109 70 - 130

Lab Sample ID: 890-4726-21 MSD Client Sample ID: SS12A

Matrix: Solid Prep Type: Total/NA Analysis Batch: 54336 Prep Batch: 54318

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00199 | U *+ F1 | 0.0994 | 0.1285 | | mg/Kg | | 128 | 70 - 130 | 11 | 35 |
| Toluene | 0.00436 | | 0.0994 | 0.1065 | | mg/Kg | | 103 | 70 - 130 | 12 | 35 |
| Ethylbenzene | <0.00199 | U | 0.0994 | 0.1011 | | mg/Kg | | 102 | 70 - 130 | 14 | 35 |
| m-Xylene & p-Xylene | 0.00467 | | 0.199 | 0.1961 | | mg/Kg | | 96 | 70 - 130 | 14 | 35 |
| o-Xylene | 0.00237 | | 0.0994 | 0.09532 | | mg/Kg | | 93 | 70 - 130 | 15 | 35 |

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 89 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 124 | 70 - 130 |

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

Lab Sample ID: MB 880-54161/1-A

Matrix: Solid

Analysis Batch: 54121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54161

| ME | в мв | | | | | | |
|---|-------------|------|-------|---|----------------|----------------|---------|
| Analyte Resul | t Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics <50.0 (GRO)-C6-C10 | Ū | 50.0 | mg/Kg | | 05/25/23 12:10 | 05/25/23 10:17 | 1 |
| Diesel Range Organics (Over <50.0 C10-C28) |) U | 50.0 | mg/Kg | | 05/25/23 12:10 | 05/25/23 10:17 | 1 |
| Oll Range Organics (Over C28-C36) <50.0 |) U | 50.0 | mg/Kg | | 05/25/23 12:10 | 05/25/23 10:17 | 1 |

MB MB Surrogate %Recovery Qualifier Limits 1-Chlorooctane 200 S1+ 70 - 130

Prepared Analyzed Dil Fac 05/25/23 12:10 05/25/23 10:17 05/25/23 12:10 05/25/23 10:17

Lab Sample ID: LCS 880-54161/2-A

Released to Imaging: 10/16/2023 12:35:20 PM

Matrix: Solid

Analysis Batch: 54121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54161

| | | Spike | LCS | LCS | | | | %Rec | |
|---|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| | Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| | Gasoline Range Organics | 1000 | 987.8 | | mg/Kg | | 99 | 70 - 130 | |
| | (GRO)-C6-C10 | | | | | | | | |
| | Diesel Range Organics (Over | 1000 | 1030 | | mg/Kg | | 103 | 70 - 130 | |
| ı | C10-C28\ | | | | | | | | |

C10-C28)

| | LC3 L | .03 | |
|----------------|-------------|-----------|----------|
| Surrogate | %Recovery G | Qualifier | Limits |
| 1-Chlorooctane | 109 | | 70 - 130 |
| o-Terphenyl | 120 | | 70 - 130 |

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o-Terphenyl 238 S1+ 70 - 130

100 100

QC Sample Results

Job ID: 890-4726-1 Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Spike

babbA

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

Lab Sample ID: LCSD 880-54161/3-A

Matrix: Solid

Analysis Batch: 54121

Analyte

Prep Type: Total/NA Prep Batch: 54161 LCSD LCSD RPD RPD Limit Result Qualifier Unit %Rec Limits D mg/Kg 86 70 - 130 14 20

82

mg/Kg

Client Sample ID: Lab Control Sample Dup

70 - 130

Gasoline Range Organics 1000 859.1 (GRO)-C6-C10 1000 Diesel Range Organics (Over 823.6 *1 C10-C28) LCSD LCSD

Qualifier Surrogate %Recovery

Limits 70 - 130 1-Chlorooctane 92 o-Terphenyl 108 70 - 130

Lab Sample ID: 880-28743-A-6-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 54121

Prep Type: Total/NA

Prep Batch: 54161

22

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U 999 1048 105 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U *1 999 1010 mg/Kg 99 70 - 130 C10-C28)

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 115 | 70 - 130 |
| o-Terphenyl | 111 | 70 - 130 |

Lab Sample ID: 880-28743-A-6-E MSD

Matrix: Solid

Analysis Batch: 54121

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 54161

Sample Sample Spike MSD MSD %Rec **RPD** Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD <50.0 U 999 990.5 99 20 Gasoline Range Organics 70 - 130 6 mg/Kg (GRO)-C6-C10 999 975.9 96 70 - 130 20 Diesel Range Organics (Over <50.0 U *1 mg/Kg 3

C10-C28)

MSD MSD Surrogate Qualifier Limits %Recovery 1-Chlorooctane 108 70 - 130 109 70 - 130 o-Terphenyl

Lab Sample ID: MB 880-54172/1-A

Matrix: Solid

Analysis Batch: 54197

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

Prep Batch: 54172

|) IVID | | | | | | |
|-------------|---|---|--|--|--|--|
| t Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| U U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 08:25 | 1 |
| | | | | | | |
|) U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 08:25 | 1 |
| | | | | | | |
|) U | 50.0 | mg/Kg | | 05/25/23 13:43 | 05/26/23 08:25 | 1 |
| - | t Qualifier U U U U U U U U U U U U U U U U U U U | t Qualifier RL DO ID 0 U 50.0 | t Qualifier RL DUNIT 0 U 50.0 0 U 50.0 mg/Kg | t Qualifier RL Unit D mg/Kg 0 U 50.0 mg/Kg | t Qualifier RL Unit mg/Kg D 05/25/23 13:43 0 U 50.0 mg/Kg 05/25/23 13:43 | t Qualifier RL Unit mg/Kg D 05/25/23 13:43 Prepared Analyzed 05/26/23 08:25 D U 50.0 mg/Kg 05/25/23 13:43 05/26/23 08:25 |

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

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

Lab Sample ID: MB 880-54172/1-A

Matrix: Solid

Analysis Batch: 54197

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54172

MB MB

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----|---------------|----------------|---------|
| 1-Chlorooctane | 174 | S1+ | 70 - 130 | 05 | 5/25/23 13:43 | 05/26/23 08:25 | 1 |
| o-Terphenyl | 190 | S1+ | 70 - 130 | 05 | 5/25/23 13:43 | 05/26/23 08:25 | 1 |

Lab Sample ID: LCS 880-54172/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 54197

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

Prep Batch: 54172

| | Spike | LCS | LCS | | | %Rec | |
|-----------------------------|-------|--------|-----------|--------|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 948.2 | | mg/Kg | 95 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | |
| Diesel Range Organics (Over | 1000 | 736.7 | | mg/Kg | 74 | 70 - 130 | |
| C10-C28) | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 88 | | 70 - 130 |
| o-Terphenyl | 91 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 54197

Lab Sample ID: LCSD 880-54172/3-A

Prep Batch: 54172

| | Бріке | LCSD | LCSD | | | | %Rec | | KPD | |
|-----------------------------|--------------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics | 1000 | 914.4 | | mg/Kg | | 91 | 70 - 130 | 4 | 20 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 817.9 | | mg/Kg | | 82 | 70 - 130 | 10 | 20 | |
| C10-C28) | | | | | | | | | | |

C10-C28)

LCSD LCSD %Recovery Qualif

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 87 | 70 - 130 |
| o-Terphenyl | 93 | 70 - 130 |

Lab Sample ID: 890-4726-1 MS Client Sample ID: FS01

Matrix: Solid
Analysis Batch: 54197
Prep Ratch: 54172

Analysis Batch: 54197

Sample Sample Spike MS MS

Prep Batch: 54172

%Rec

| | Gampio | Campic | Opino | 1110 | 11.0 | | | | 701100 | |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | <49.9 | U | 999 | 843.8 | | mg/Kg | | 83 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 999 | 885.4 | | mg/Kg | | 89 | 70 - 130 | |
| C10-C28) | | | | | | | | | | |

C10-C28)

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 104 | 70 - 130 |
| o-Terphenyl | 103 | 70 - 130 |

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70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

9

QC Sample Results

Job ID: 890-4726-1 Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

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

<49.9 U

Lab Sample ID: 890-4726-1 MSD **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA

Diesel Range Organics (Over

Analysis Batch: 54197 Prep Batch: 54172 Sample Sample Spike MSD MSD RPD Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.9 U 1000 953.4 mg/Kg 94 70 - 130 12 20 (GRO)-C6-C10

967.7

mg/Kg

1000

C10-C28)

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 114 o-Terphenyl 115 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54140/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 54186

MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 05/26/23 04:55

Lab Sample ID: LCS 880-54140/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 54186

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 265.5 90 - 110 mg/Kg 106

Lab Sample ID: LCSD 880-54140/3-A

Matrix: Solid

Analysis Batch: 54186

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|--------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 259.3 | | ma/Ka | | 104 | 90 110 | | 20 | |

Lab Sample ID: 890-4725-A-11-F MS

Matrix: Solid

Analysis Batch: 54186

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result Unit %Rec Limits Chloride F1 2500 5458 F1 117 90 - 110 2540 mg/Kg

Lab Sample ID: 890-4725-A-11-G MSD

Matrix: Solid

Analysis Batch: 54186

| - | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 2540 | F1 | 2500 | 5524 | F1 | mg/Kg | | 119 | 90 - 110 | 1 | 20 |

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Client: Ensolum Project/Site: Warbler State Com 2Y Job ID: 890-4726-1

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: FS01

Client Sample ID: FS01

Client Sample ID: SS07A

Client Sample ID: SS07A

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

SDG: 32.4565,-103.5795

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-54141/1-A

Matrix: Solid

Analysis Batch: 54188

мв мв

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 05/25/23 21:15 | 1 |

Lab Sample ID: LCS 880-54141/2-A

Matrix: Solid

Analysis Batch: 54188

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 245.0 | | mg/Kg | | 98 | 90 - 110 | |

Lab Sample ID: LCSD 880-54141/3-A

Matrix: Solid

Analysis Batch: 54188

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 250 | 246.3 | | mg/Kg | | 99 | 90 - 110 | 1 | 20 |

Lab Sample ID: 890-4726-1 MS

Matrix: Solid

Analysis Batch: 54188

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 106 | | 251 | 353.3 | | mg/Kg | _ | 99 | 90 - 110 | |

Lab Sample ID: 890-4726-1 MSD

Matrix: Solid

Analysis Batch: 54188

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 106 | | 251 | 354.0 | | mg/Kg | | 99 | 90 - 110 | | 20 | |

Lab Sample ID: 890-4726-11 MS

Matrix: Solid

Analysis Batch: 54188

| - | Sample | Sample | Spike | MS | MS | | | | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|--------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | 50.7 | | 253 | 320.7 | | ma/Ka | | 110 | 90 110 |

Lab Sample ID: 890-4726-11 MSD

Matrix: Solid

Analysis Batch: 54188

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 50.7 | | 253 | 329.2 | | mg/Kg | | 110 | 90 - 110 | 0 | 20 | |

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

GC VOA

Prep Batch: 54098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-54098/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 54206

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4726-1 | FS01 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-2 | FS02 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-3 | FS03 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-4 | FS04 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-5 | FS05 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-6 | SS05 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-7 | SS05A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-8 | SS06 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-9 | SS06A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-10 | SS07 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-11 | SS07A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-12 | SS08 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-13 | SS08A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-14 | SS09 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-15 | SS09A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-16 | SS10 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-17 | SS10A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-18 | SS11 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-19 | SS11A | Total/NA | Solid | 8021B | 54265 |
| 890-4726-20 | SS12 | Total/NA | Solid | 8021B | 54265 |
| MB 880-54098/5-A | Method Blank | Total/NA | Solid | 8021B | 54098 |
| MB 880-54265/5-A | Method Blank | Total/NA | Solid | 8021B | 54265 |
| LCS 880-54265/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 54265 |
| LCSD 880-54265/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 54265 |
| 890-4726-1 MS | FS01 | Total/NA | Solid | 8021B | 54265 |
| 890-4726-1 MSD | FS01 | Total/NA | Solid | 8021B | 54265 |

Prep Batch: 54265

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-4726-1 | FS01 | Total/NA | Solid | 5035 | <u> </u> |
| 890-4726-2 | FS02 | Total/NA | Solid | 5035 | |
| 890-4726-3 | FS03 | Total/NA | Solid | 5035 | |
| 890-4726-4 | FS04 | Total/NA | Solid | 5035 | |
| 890-4726-5 | FS05 | Total/NA | Solid | 5035 | |
| 890-4726-6 | SS05 | Total/NA | Solid | 5035 | |
| 890-4726-7 | SS05A | Total/NA | Solid | 5035 | |
| 890-4726-8 | SS06 | Total/NA | Solid | 5035 | |
| 890-4726-9 | SS06A | Total/NA | Solid | 5035 | |
| 890-4726-10 | SS07 | Total/NA | Solid | 5035 | |
| 890-4726-11 | SS07A | Total/NA | Solid | 5035 | |
| 890-4726-12 | SS08 | Total/NA | Solid | 5035 | |
| 890-4726-13 | SS08A | Total/NA | Solid | 5035 | |
| 890-4726-14 | SS09 | Total/NA | Solid | 5035 | |
| 890-4726-15 | SS09A | Total/NA | Solid | 5035 | |
| 890-4726-16 | SS10 | Total/NA | Solid | 5035 | |
| 890-4726-17 | SS10A | Total/NA | Solid | 5035 | |
| 890-4726-18 | SS11 | Total/NA | Solid | 5035 | |

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Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

GC VOA (Continued)

Prep Batch: 54265 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4726-19 | SS11A | Total/NA | Solid | 5035 | |
| 890-4726-20 | SS12 | Total/NA | Solid | 5035 | |
| MB 880-54265/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-54265/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-54265/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4726-1 MS | FS01 | Total/NA | Solid | 5035 | |
| 890-4726-1 MSD | FS01 | Total/NA | Solid | 5035 | |

Prep Batch: 54318

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4726-21 | SS12A | Total/NA | Solid | 5035 | |
| 890-4726-22 | SS13 | Total/NA | Solid | 5035 | |
| 890-4726-23 | SS13A | Total/NA | Solid | 5035 | |
| 890-4726-24 | SS14 | Total/NA | Solid | 5035 | |
| 890-4726-25 | SS14A | Total/NA | Solid | 5035 | |
| MB 880-54318/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-54318/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-54318/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4726-21 MS | SS12A | Total/NA | Solid | 5035 | |
| 890-4726-21 MSD | SS12A | Total/NA | Solid | 5035 | |

Analysis Batch: 54336

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4726-21 | SS12A | Total/NA | Solid | 8021B | 54318 |
| 890-4726-22 | SS13 | Total/NA | Solid | 8021B | 54318 |
| 890-4726-23 | SS13A | Total/NA | Solid | 8021B | 54318 |
| 890-4726-24 | SS14 | Total/NA | Solid | 8021B | 54318 |
| 890-4726-25 | SS14A | Total/NA | Solid | 8021B | 54318 |
| MB 880-54318/5-A | Method Blank | Total/NA | Solid | 8021B | 54318 |
| LCS 880-54318/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 54318 |
| LCSD 880-54318/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 54318 |
| 890-4726-21 MS | SS12A | Total/NA | Solid | 8021B | 54318 |
| 890-4726-21 MSD | SS12A | Total/NA | Solid | 8021B | 54318 |

Analysis Batch: 54479

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4726-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-4726-2 | FS02 | Total/NA | Solid | Total BTEX | |
| 890-4726-3 | FS03 | Total/NA | Solid | Total BTEX | |
| 890-4726-4 | FS04 | Total/NA | Solid | Total BTEX | |
| 890-4726-5 | FS05 | Total/NA | Solid | Total BTEX | |
| 890-4726-6 | SS05 | Total/NA | Solid | Total BTEX | |
| 390-4726-7 | SS05A | Total/NA | Solid | Total BTEX | |
| 890-4726-8 | SS06 | Total/NA | Solid | Total BTEX | |
| 890-4726-9 | SS06A | Total/NA | Solid | Total BTEX | |
| 390-4726-10 | SS07 | Total/NA | Solid | Total BTEX | |
| 390-4726-11 | SS07A | Total/NA | Solid | Total BTEX | |
| 890-4726-12 | SS08 | Total/NA | Solid | Total BTEX | |
| 890-4726-13 | SS08A | Total/NA | Solid | Total BTEX | |
| 390-4726-14 | SS09 | Total/NA | Solid | Total BTEX | |
| 890-4726-15 | SS09A | Total/NA | Solid | Total BTEX | |

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

GC VOA (Continued)

Analysis Batch: 54479 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4726-16 | SS10 | Total/NA | Solid | Total BTEX | |
| 890-4726-17 | SS10A | Total/NA | Solid | Total BTEX | |
| 890-4726-18 | SS11 | Total/NA | Solid | Total BTEX | |
| 890-4726-19 | SS11A | Total/NA | Solid | Total BTEX | |
| 890-4726-20 | SS12 | Total/NA | Solid | Total BTEX | |
| 890-4726-21 | SS12A | Total/NA | Solid | Total BTEX | |
| 890-4726-22 | SS13 | Total/NA | Solid | Total BTEX | |
| 890-4726-23 | SS13A | Total/NA | Solid | Total BTEX | |
| 890-4726-24 | SS14 | Total/NA | Solid | Total BTEX | |
| 890-4726-25 | SS14A | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 54121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-4726-21 | SS12A | Total/NA | Solid | 8015B NM | 54161 |
| 890-4726-22 | SS13 | Total/NA | Solid | 8015B NM | 54161 |
| 890-4726-23 | SS13A | Total/NA | Solid | 8015B NM | 54161 |
| 890-4726-24 | SS14 | Total/NA | Solid | 8015B NM | 54161 |
| 890-4726-25 | SS14A | Total/NA | Solid | 8015B NM | 54161 |
| MB 880-54161/1-A | Method Blank | Total/NA | Solid | 8015B NM | 54161 |
| LCS 880-54161/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 54161 |
| LCSD 880-54161/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 54161 |
| 880-28743-A-6-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 54161 |
| 880-28743-A-6-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 54161 |

Prep Batch: 54161

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-4726-21 | SS12A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-22 | SS13 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-23 | SS13A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-24 | SS14 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-25 | SS14A | Total/NA | Solid | 8015NM Prep | |
| MB 880-54161/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-54161/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-54161/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-28743-A-6-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-28743-A-6-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Prep Batch: 54172

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-4726-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-2 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-3 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-4 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-5 | FS05 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-6 | SS05 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-7 | SS05A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-8 | SS06 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-9 | SS06A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-10 | SS07 | Total/NA | Solid | 8015NM Prep | |

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

GC Semi VOA (Continued)

Prep Batch: 54172 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-4726-11 | SS07A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-12 | SS08 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-13 | SS08A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-14 | SS09 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-15 | SS09A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-16 | SS10 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-17 | SS10A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-18 | SS11 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-19 | SS11A | Total/NA | Solid | 8015NM Prep | |
| 890-4726-20 | SS12 | Total/NA | Solid | 8015NM Prep | |
| MB 880-54172/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-54172/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-54172/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-4726-1 MS | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-4726-1 MSD | FS01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 54197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4726-1 | FS01 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-2 | FS02 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-3 | FS03 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-4 | FS04 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-5 | FS05 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-6 | SS05 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-7 | SS05A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-8 | SS06 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-9 | SS06A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-10 | SS07 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-11 | SS07A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-12 | SS08 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-13 | SS08A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-14 | SS09 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-15 | SS09A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-16 | SS10 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-17 | SS10A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-18 | SS11 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-19 | SS11A | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-20 | SS12 | Total/NA | Solid | 8015B NM | 54172 |
| MB 880-54172/1-A | Method Blank | Total/NA | Solid | 8015B NM | 54172 |
| LCS 880-54172/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 54172 |
| LCSD 880-54172/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-1 MS | FS01 | Total/NA | Solid | 8015B NM | 54172 |
| 890-4726-1 MSD | FS01 | Total/NA | Solid | 8015B NM | 54172 |

Analysis Batch: 54237

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4726-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-4726-2 | FS02 | Total/NA | Solid | 8015 NM | |
| 890-4726-3 | FS03 | Total/NA | Solid | 8015 NM | |
| 890-4726-4 | FS04 | Total/NA | Solid | 8015 NM | |
| 890-4726-5 | FS05 | Total/NA | Solid | 8015 NM | |

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Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

GC Semi VOA (Continued)

Analysis Batch: 54237 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4726-6 | SS05 | Total/NA | Solid | 8015 NM | |
| 890-4726-7 | SS05A | Total/NA | Solid | 8015 NM | |
| 890-4726-8 | SS06 | Total/NA | Solid | 8015 NM | |
| 890-4726-9 | SS06A | Total/NA | Solid | 8015 NM | |
| 890-4726-10 | SS07 | Total/NA | Solid | 8015 NM | |
| 890-4726-11 | SS07A | Total/NA | Solid | 8015 NM | |
| 890-4726-12 | SS08 | Total/NA | Solid | 8015 NM | |
| 890-4726-13 | SS08A | Total/NA | Solid | 8015 NM | |
| 890-4726-14 | SS09 | Total/NA | Solid | 8015 NM | |
| 890-4726-15 | SS09A | Total/NA | Solid | 8015 NM | |
| 890-4726-16 | SS10 | Total/NA | Solid | 8015 NM | |
| 890-4726-17 | SS10A | Total/NA | Solid | 8015 NM | |
| 890-4726-18 | SS11 | Total/NA | Solid | 8015 NM | |
| 890-4726-19 | SS11A | Total/NA | Solid | 8015 NM | |
| 890-4726-20 | SS12 | Total/NA | Solid | 8015 NM | |
| 890-4726-21 | SS12A | Total/NA | Solid | 8015 NM | |
| 890-4726-22 | SS13 | Total/NA | Solid | 8015 NM | |
| 890-4726-23 | SS13A | Total/NA | Solid | 8015 NM | |
| 890-4726-24 | SS14 | Total/NA | Solid | 8015 NM | |
| 890-4726-25 | SS14A | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 54140

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-4726-21 | SS12A | Soluble | Solid | DI Leach | |
| 890-4726-22 | SS13 | Soluble | Solid | DI Leach | |
| 890-4726-23 | SS13A | Soluble | Solid | DI Leach | |
| 890-4726-24 | SS14 | Soluble | Solid | DI Leach | |
| 890-4726-25 | SS14A | Soluble | Solid | DI Leach | |
| MB 880-54140/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-54140/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-54140/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4725-A-11-F MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-4725-A-11-G MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 54141

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batc |
|---------------|------------------|-----------|--------|----------|-----------|
| 890-4726-1 | FS01 | Soluble | Solid | DI Leach | |
| 890-4726-2 | FS02 | Soluble | Solid | DI Leach | |
| 890-4726-3 | FS03 | Soluble | Solid | DI Leach | |
| 890-4726-4 | FS04 | Soluble | Solid | DI Leach | |
| 890-4726-5 | FS05 | Soluble | Solid | DI Leach | |
| 890-4726-6 | SS05 | Soluble | Solid | DI Leach | |
| 890-4726-7 | SS05A | Soluble | Solid | DI Leach | |
| 890-4726-8 | SS06 | Soluble | Solid | DI Leach | |
| 890-4726-9 | SS06A | Soluble | Solid | DI Leach | |
| 890-4726-10 | SS07 | Soluble | Solid | DI Leach | |
| 890-4726-11 | SS07A | Soluble | Solid | DI Leach | |
| 890-4726-12 | SS08 | Soluble | Solid | DI Leach | |
| 890-4726-13 | SS08A | Soluble | Solid | DI Leach | |

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

HPLC/IC (Continued)

Leach Batch: 54141 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4726-14 | SS09 | Soluble | Solid | DI Leach | |
| 890-4726-15 | SS09A | Soluble | Solid | DI Leach | |
| 890-4726-16 | SS10 | Soluble | Solid | DI Leach | |
| 890-4726-17 | SS10A | Soluble | Solid | DI Leach | |
| 890-4726-18 | SS11 | Soluble | Solid | DI Leach | |
| 890-4726-19 | SS11A | Soluble | Solid | DI Leach | |
| 890-4726-20 | SS12 | Soluble | Solid | DI Leach | |
| MB 880-54141/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-54141/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-54141/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4726-1 MS | FS01 | Soluble | Solid | DI Leach | |
| 890-4726-1 MSD | FS01 | Soluble | Solid | DI Leach | |
| 890-4726-11 MS | SS07A | Soluble | Solid | DI Leach | |
| 890-4726-11 MSD | SS07A | Soluble | Solid | DI Leach | |

Analysis Batch: 54186

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4726-21 | SS12A | Soluble | Solid | 300.0 | 54140 |
| 890-4726-22 | SS13 | Soluble | Solid | 300.0 | 54140 |
| 890-4726-23 | SS13A | Soluble | Solid | 300.0 | 54140 |
| 890-4726-24 | SS14 | Soluble | Solid | 300.0 | 54140 |
| 890-4726-25 | SS14A | Soluble | Solid | 300.0 | 54140 |
| MB 880-54140/1-A | Method Blank | Soluble | Solid | 300.0 | 54140 |
| LCS 880-54140/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 54140 |
| LCSD 880-54140/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 54140 |
| 890-4725-A-11-F MS | Matrix Spike | Soluble | Solid | 300.0 | 54140 |
| 890-4725-A-11-G MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 54140 |

Analysis Batch: 54188

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 890-4726-1 | FS01 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-2 | FS02 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-3 | FS03 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-4 | FS04 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-5 | FS05 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-6 | SS05 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-7 | SS05A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-8 | SS06 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-9 | SS06A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-10 | SS07 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-11 | SS07A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-12 | SS08 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-13 | SS08A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-14 | SS09 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-15 | SS09A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-16 | SS10 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-17 | SS10A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-18 | SS11 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-19 | SS11A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-20 | SS12 | Soluble | Solid | 300.0 | 54141 |
| MB 880-54141/1-A | Method Blank | Soluble | Solid | 300.0 | 54141 |

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Client: Ensolum

Job ID: 890-4726-1

Project/Site: Warbler State Com 2Y

SDG: 32.4565,-103.5795

HPLC/IC (Continued)

Analysis Batch: 54188 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCS 880-54141/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 54141 |
| LCSD 880-54141/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 54141 |
| 890-4726-1 MS | FS01 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-1 MSD | FS01 | Soluble | Solid | 300.0 | 54141 |
| 890-4726-11 MS | SS07A | Soluble | Solid | 300.0 | 54141 |
| 890-4726-11 MSD | SS07A | Soluble | Solid | 300.0 | 54141 |

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Date Received: 05/23/23 16:53

Job ID: 890-4726-1 SDG: 32.4565,-103.5795

Client Sample ID: FS01

Date Collected: 05/23/23 10:55

Analysis

300.0

Lab Sample ID: 890-4726-1

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/27/23 23:53 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 11:01 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |

Client Sample ID: FS02 Lab Sample ID: 890-4726-2

54188

05/25/23 21:31

Date Collected: 05/23/23 11:00 Date Received: 05/23/23 16:53

Soluble

Matrix: Solid

CH

EET MID

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 00:20 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 12:38 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 21:47 | CH | EET MID |

Client Sample ID: FS03 Lab Sample ID: 890-4726-3

Date Received: 05/23/23 16:53

Date Collected: 05/23/23 11:20 **Matrix: Solid**

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 00:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 13:00 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 21:52 | CH | EET MID |

Client Sample ID: FS04 Lab Sample ID: 890-4726-4 Date Collected: 05/23/23 12:50 **Matrix: Solid**

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 01:13 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |

Client: Ensolum

Project/Site: Warbler State Com 2Y

SDG: 32.4565,-103.5795

Lab Sample ID: 890-4726-4

Matrix: Solid

Job ID: 890-4726-1

Date Collected: 05/23/23 12:50 Date Received: 05/23/23 16:53

Client Sample ID: FS04

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 13:22 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 21:58 | СН | EET MID |

Client Sample ID: FS05 Lab Sample ID: 890-4726-5

Date Collected: 05/23/23 12:55 **Matrix: Solid**

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 01:39 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 13:44 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MIC |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:03 | CH | EET MID |

Client Sample ID: SS05 Lab Sample ID: 890-4726-6

Date Collected: 05/23/23 10:40 Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 02:06 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 14:06 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:19 | CH | EET MID |

Client Sample ID: SS05A Lab Sample ID: 890-4726-7

Date Collected: 05/23/23 10:45 Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|-----------------|---------------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 02:32 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.01 g 1 uL | 10 mL 1 uL | 54172 54197 | 05/25/23 13:43 05/26/23 14:28 | AJ SM | EET MID EET MID |

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Released to Imaging: 10/16/2023 12:35:20 PM

Matrix: Solid

Matrix: Solid

Client: Ensolum

Project/Site: Warbler State Com 2Y

Job ID: 890-4726-1 SDG: 32.4565,-103.5795

Client Sample ID: SS05A

Date Collected: 05/23/23 10:45 Date Received: 05/23/23 16:53 Lab Sample ID: 890-4726-7

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:25 | CH | EET MID |

Client Sample ID: SS06 Lab Sample ID: 890-4726-8

Date Collected: 05/23/23 12:05 Date Received: 05/23/23 16:53 **Matrix: Solid**

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 02:59 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 14:50 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:30 | CH | EET MID |

Client Sample ID: SS06A Lab Sample ID: 890-4726-9

Date Collected: 05/23/23 12:10 Date Received: 05/23/23 16:53

Matrix: Solid

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 03:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 15:13 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:35 | CH | EET MID |

Client Sample ID: SS07 Lab Sample ID: 890-4726-10

Date Collected: 05/23/23 12:30 Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 03:53 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 15:35 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:41 | CH | EET MID |

Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS07A Lab Sample ID: 890-4726-11

Date Collected: 05/23/23 12:35 **Matrix: Solid** Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 05:40 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 16:48 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 22:46 | CH | EET MID |

Client Sample ID: SS08 Lab Sample ID: 890-4726-12

Date Collected: 05/23/23 13:05 **Matrix: Solid** Date Received: 05/23/23 16:53

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.97 g 5 mL 54265 05/26/23 15:50 EL EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 54206 05/28/23 06:06 MNR Total/NA Total BTEX 54479 05/31/23 10:19 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 54237 05/30/23 15:35 SM **EET MID** Total/NA 54172 Prep 8015NM Prep 10.02 g 10 mL 05/25/23 13:43 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 54197 05/26/23 17:10 SM **EET MID** Soluble 5.02 g Leach DI Leach 50 mL 54141 05/25/23 10:17 KS EET MID

Client Sample ID: SS08A Lab Sample ID: 890-4726-13 Date Collected: 05/23/23 13:10 **Matrix: Solid**

54188

05/25/23 23:02

СН

EET MID

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 06:33 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 17:32 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:07 | CH | EET MID |

Lab Sample ID: 890-4726-14 **Client Sample ID: SS09**

Date Collected: 05/23/23 13:15 **Matrix: Solid** Date Received: 05/23/23 16:53

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 07:00 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |

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Soluble

Analysis

Date Received: 05/23/23 16:53

300.0

Client: Ensolum

Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS09

Date Collected: 05/23/23 13:15 Date Received: 05/23/23 16:53

Lab Sample ID: 890-4726-14

Matrix: Solid

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 17:54 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:24 | CH | EET MID |

Client Sample ID: SS09A Lab Sample ID: 890-4726-15

Date Collected: 05/23/23 13:20 Date Received: 05/23/23 16:53

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 05/26/23 15:50 Total/NA Prep 5.00 g 5 mL 54265 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 54206 05/28/23 07:28 MNR **EET MID** 1 Total/NA Total BTEX Analysis 1 54479 05/31/23 10:19 SM **EET MID** Total/NA Analysis 8015 NM 54237 05/30/23 15:35 SM **EET MID** 1 Total/NA Prep 8015NM Prep 10.03 g 10 mL 54172 05/25/23 13:43 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 54197 05/26/23 18:15 SM **EET MID** Soluble Leach DI Leach 4.96 g 50 mL 54141 05/25/23 10:17 KS **EET MID** Soluble Analysis 300.0 1 54188 05/25/23 23:29 СН **EET MID**

Client Sample ID: SS10 Lab Sample ID: 890-4726-16 Date Collected: 05/23/23 13:25 **Matrix: Solid**

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 07:55 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 18:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:34 | CH | EET MID |

Client Sample ID: SS10A Lab Sample ID: 890-4726-17

Date Collected: 05/23/23 13:30 Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|-----------------|---------------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 08:23 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.01 g 1 uL | 10 mL 1 uL | 54172 54197 | 05/25/23 13:43 05/26/23 18:58 | AJ SM | EET MID EET MID |

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Matrix: Solid

Job ID: 890-4726-1 SDG: 32.4565,-103.5795

Client: Ensolum Project/Site: Warbler State Com 2Y

Lab Sample ID: 890-4726-17

Client Sample ID: SS10A Date Collected: 05/23/23 13:30

Matrix: Solid

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:40 | СН | EET MID |

Client Sample ID: SS11 Lab Sample ID: 890-4726-18

Date Collected: 05/23/23 13:35 **Matrix: Solid**

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 08:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 19:20 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:45 | CH | EET MID |

Client Sample ID: SS11A Lab Sample ID: 890-4726-19

Date Collected: 05/23/23 13:40 **Matrix: Solid** Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 09:18 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 19:41 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:50 | CH | EET MID |

Client Sample ID: SS12 Lab Sample ID: 890-4726-20

Date Collected: 05/23/23 13:45 Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 54265 | 05/26/23 15:50 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54206 | 05/28/23 09:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:19 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/30/23 15:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 54172 | 05/25/23 13:43 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54197 | 05/26/23 20:03 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 54141 | 05/25/23 10:17 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54188 | 05/25/23 23:56 | CH | EET MID |

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Matrix: Solid

Job ID: 890-4726-1 Client: Ensolum Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS12A Lab Sample ID: 890-4726-21

Date Collected: 05/23/23 13:50 **Matrix: Solid** Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 54318 | 05/27/23 12:55 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54336 | 05/30/23 12:32 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/26/23 09:04 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 54161 | 05/25/23 12:10 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54121 | 05/25/23 19:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 54140 | 05/25/23 10:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54186 | 05/26/23 07:12 | CH | EET MID |

Client Sample ID: SS13 Lab Sample ID: 890-4726-22

Date Collected: 05/23/23 13:55 **Matrix: Solid** Date Received: 05/23/23 16:53

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.05 g 5 mL 54318 05/27/23 12:55 EL EET MID Total/NA 8021B 5 mL 05/30/23 12:58 **EET MID** Analysis 1 5 mL 54336 MNR Total/NA Total BTEX 54479 05/31/23 10:24 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 54237 05/26/23 09:04 SM **EET MID** Total/NA 54161 Prep 8015NM Prep 10.04 g 10 mL 05/25/23 12:10 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 54121 05/25/23 19:51 SM **EET MID** Soluble Leach DI Leach 4.97 g 50 mL 54140 05/25/23 10:16 KS EET MID Soluble Analysis 300.0 54186 05/26/23 07:17 СН **EET MID**

Client Sample ID: SS13A Lab Sample ID: 890-4726-23 Date Collected: 05/23/23 14:00

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 54318 | 05/27/23 12:55 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54336 | 05/30/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/26/23 09:04 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 54161 | 05/25/23 12:10 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54121 | 05/25/23 20:12 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 54140 | 05/25/23 10:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54186 | 05/26/23 07:22 | CH | EET MID |

Lab Sample ID: 890-4726-24 Client Sample ID: SS14 Date Collected: 05/23/23 14:05 **Matrix: Solid**

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 54318 | 05/27/23 12:55 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54336 | 05/30/23 13:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:24 | SM | EET MID |

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Matrix: Solid

Released to Imaging: 10/16/2023 12:35:20 PM

Analysis

300.0

EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4726-1 Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Client Sample ID: SS14

Soluble

Lab Sample ID: 890-4726-24

CH

Matrix: Solid

Date Collected: 05/23/23 14:05 Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------------------|------------------|-------------------------|-----|----------|-----------------|---------------|----------------|----------------------------------|---------------|---------|
| Prep Type Total/NA | Type Analysis | Method 8015 NM | Run | Factor 1 | Amount | Amount | Number 54237 | or Analyzed 05/26/23 09:04 | Analyst SM | EET MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.01 g 1 uL | 10 mL 1 uL | 54161 54121 | 05/25/23 12:10 05/25/23 20:33 | AJ SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 54140 | 05/25/23 10:16 | KS | EET MID |

1

Lab Sample ID: 890-4726-25

05/26/23 07:28

54186

Client Sample ID: SS14A Date Collected: 05/23/23 14:10 **Matrix: Solid**

Date Received: 05/23/23 16:53

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 54318 | 05/27/23 12:55 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 54336 | 05/30/23 14:19 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 54479 | 05/31/23 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 54237 | 05/26/23 09:04 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 54161 | 05/25/23 12:10 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 54121 | 05/25/23 20:54 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 54140 | 05/25/23 10:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 54186 | 05/26/23 07:33 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4726-1
Project/Site: Warbler State Com 2Y SDG: 32.4565,-103.5795

Laboratory: Eurofins Midland

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

| Authority Texas | | ogram | Identification Number | Expiration Date 06-30-23 | |
|------------------------|---|----------------------------------|--|--------------------------|--|
| | | ELAP | T104704400-22-25 | | |
| The following analytes | and the almost and the Alaba management has | | and the state of the second control of the s | | |
| the agency does not of | • ' | it the laboratory is not certifi | ed by the governing authority. This list ma | ay include analytes for | |
| , | • ' | Matrix | ed by the governing authority. This list ma | ay include analytes for | |
| the agency does not of | fer certification. | • | , , , | ay include analytes for | |

2

4

5

7

9

10

12

4 1

Method Summary

Client: Ensolum

Project/Site: Warbler State Com 2Y

Job ID: 890-4726-1

SDG: 32.4565,-103.5795

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

890-4726-25

SS14A

Project/Site: Warbler State Com 2Y

Job ID: 890-4726-1 SDG: 32.4565,-103.5795

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4726-1 | FS01 | Solid | 05/23/23 10:55 | 05/23/23 16:53 | 0.5' |
| 890-4726-2 | FS02 | Solid | 05/23/23 11:00 | 05/23/23 16:53 | 0.5' |
| 890-4726-3 | FS03 | Solid | 05/23/23 11:20 | 05/23/23 16:53 | 1.0' |
| 890-4726-4 | FS04 | Solid | 05/23/23 12:50 | 05/23/23 16:53 | 0.5' |
| 890-4726-5 | FS05 | Solid | 05/23/23 12:55 | 05/23/23 16:53 | 0.5' |
| 890-4726-6 | SS05 | Solid | 05/23/23 10:40 | 05/23/23 16:53 | 0.5' |
| 890-4726-7 | SS05A | Solid | 05/23/23 10:45 | 05/23/23 16:53 | 1.0' |
| 890-4726-8 | SS06 | Solid | 05/23/23 12:05 | 05/23/23 16:53 | 0.5' |
| 890-4726-9 | SS06A | Solid | 05/23/23 12:10 | 05/23/23 16:53 | 1.0' |
| 890-4726-10 | SS07 | Solid | 05/23/23 12:30 | 05/23/23 16:53 | 0.5' |
| 890-4726-11 | SS07A | Solid | 05/23/23 12:35 | 05/23/23 16:53 | 1.0' |
| 890-4726-12 | SS08 | Solid | 05/23/23 13:05 | 05/23/23 16:53 | 0.5' |
| 890-4726-13 | SS08A | Solid | 05/23/23 13:10 | 05/23/23 16:53 | 1.0' |
| 890-4726-14 | SS09 | Solid | 05/23/23 13:15 | 05/23/23 16:53 | 0.5' |
| 890-4726-15 | SS09A | Solid | 05/23/23 13:20 | 05/23/23 16:53 | 1.0' |
| 890-4726-16 | SS10 | Solid | 05/23/23 13:25 | 05/23/23 16:53 | 0.5' |
| 890-4726-17 | SS10A | Solid | 05/23/23 13:30 | 05/23/23 16:53 | 1.0' |
| 890-4726-18 | SS11 | Solid | 05/23/23 13:35 | 05/23/23 16:53 | 0.5' |
| 890-4726-19 | SS11A | Solid | 05/23/23 13:40 | 05/23/23 16:53 | 1.0' |
| 890-4726-20 | SS12 | Solid | 05/23/23 13:45 | 05/23/23 16:53 | 0.5' |
| 890-4726-21 | SS12A | Solid | 05/23/23 13:50 | 05/23/23 16:53 | 1.0' |
| 890-4726-22 | SS13 | Solid | 05/23/23 13:55 | 05/23/23 16:53 | 0.5' |
| 890-4726-23 | SS13A | Solid | 05/23/23 14:00 | 05/23/23 16:53 | 1.0' |
| 890-4726-24 | SS14 | Solid | 05/23/23 14:05 | 05/23/23 16:53 | 0.5' |

Solid

05/23/23 14:10

05/23/23 16:53

Page 55 of 59

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

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| Project Manager: | Hadli | ie Green | | | | Bill to: (i | f different |) | Kalei Jennings | | | | | Work Order Comments | | | | | | | - 1 | | | |
|--------------------------------------|----------|---------------|-------------|-----------------|-----------------|-------------|---------------|-------|-------------------------------|--------|--------|----------|-------|--|---------|---|--------------|--------|---------|--|---------|--|----------------------|-------|
| Company Name: | Enso | lum, LLC | | | | Compar | ny Name | : | Ensolum, LLC | | | | | Program: UST/PST PRP Brownfields RRC Superfund State of Project: | | | | | | | | | | |
| Address: | 601 1 | N Marienfe | eld St S | uite 400 | | Address | s: | | 601 N Marienfeld St Suite 400 | | | | | | | | | | | | | | | |
| City, State ZIP: | Midla | and, TX 79 | 701 | | | City, Sta | ate ZIP: | | Midla | nd, TX | 79701 | | | | | Reporting: Level II PST/UST TRRP Level IV | | | | | | | IIVL | |
| Phone: | | 557-8895 | | | Email: | hgreen | @enso | um.co | om, kj | enning | s@ei | nsolum.c | om | | | Del | verabl | es: EC | D [| P | ADaPT | □ Ot | her: | |
| Project Name: | | Warbler | State C | om 2V | Tiarr | Around | | | | | | | Al | NALYS | SIS RE | QUES | T | | | | | Prese | rvative Code | s |
| Project Number: | | | 202418 | | ☑ Routine | Rus | | Pres. | | T | | | | | | | T | T | | | | None: NO | DI Water | : H₂O |
| | | 32.456 | | | Due Date: | | | Code | | | | | | | | | | | | | | Cool: Cool | MeOH: N | /le |
| Project Location: Sampler's Name: | | | Van Pa | | TAT starts th | e day rece | eived by | | | | | | | | | | | | | | | HCL: HC | HNO ₃ : H | N |
| PO#: | | 1 0.01 | · · · · · · | | the lab, if red | | | φ. | | | | 15 | ł | 1 | ı | | | | | H ₂ S0 ₄ : H ₂ NaOH: Na | | | ia | |
| SAMPLE RECEI | PT | Temp E | Blank: | (Yes No | Wet Ice: | Yes | No No | eters | 6 | | | | | | | | 111 | | | | | H₃PO₄: HP | | |
| Samples Received I | ntact: | (Yes) | | Thermometer | rID: | The | 33- | E . | 300.0) | | | | | | | | H | | | 1 3 | | NaHSO ₄ : Na | | |
| Cooler Custody Seal | s: | Yes No | NA | Correction Fa | actor: | -D | . A | P. | (EPA: | | | | | | I de d | | lii . | | | | I I | Na ₂ S ₂ O ₃ : Na | | |
| Sample Custody Sea | als: | Yes No | NA | Temperature | Reading: | (| .2 | | S (E | | = | 89 | 0-472 | 6 Chair | n of Cu | stody | H | | | | | Zn Acetate+ | | |
| Total Containers: | | | | Corrected Te | mperature: | 1 | .0 | | ORIDES | (8015) | (8021) | | | 011011 | 10104 | 0.041 | ************ | | _ | , | | NaOH+Asco | orbic Acid: SAF | C |
| Sample Ider | ntificat | tion | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | | | 1РН (8 | втех (| | | | | | | | | | | Samp | le Comment | s |
| FSC |)1 | | Soil | 5/23/2023 | 1055 | 0.5' | Comp | 1 | х | х | Х | | | | | | | | | | | | | |
| FSO | 2 | | Soil | 5/23/2023 | 1100 | 0.5' | Comp | 1 | × | х | X | | | | | 1 | | | | | - 7 = 1 | | | |
| FSO | 3 | | Soil | 5/23/2023 | 1120 | 1.0' | Comp | 1_ | X | х | X | | | | | | | | | | | | | |
| FS0 | 14 | | Soil | 5/23/2023 | 1250 | 0.5' | Comp | 1 | х | Х | х | | | | | | | | - | | | | | |
| FSO | 5 | | Soil | 5/23/2023 | 1255 | 0.5' | Comp | 1 | х | х | х | | | | | | | | - | | | | | |
| SSO | 5 | | Soil | 5/23/2023 | 1040 | 0.5' | Comp | 1 | х | x | х | | | | | | | | | | | | | |
| SSO | 5A | | Soil | 5/23/2023 | 1045 | 1.0' | Comp | 1 | × | X | X | | | | | | | | | | | | | |
| SS0 | 6 | | Soil | 5/23/2023 | 1205 | 0.5' | Comp | 1 | х | X | Х | | | | | | | | | | | | | |
| SSO | 3A | | Soil | 5/23/2023 | 1210 | 1.0' | Comp | 1 | x | x | х | | | | | - | 4 | | - | - | | | | |
| SSO | 7 | | Soil | 5/23/2023 | 1230 | 0.5' | Comp | | x | x | X | | | | | | | | <u></u> | | | | | |
| Total 200.7 / 60 | 010 | 200.8 / 6 | 020: | 8 | RCRA 13F | | | | | | | | | | | | | | K Se | | | | | |
| Circle Method(s) a | nd Me | etal(s) to be | e analy | zed | TCLP / S | PLP 60 | 10: 8R | CRA | Sb A | As Ba | Be (| Cd Cr C | Co Cu | Pb M | In Mo | Ni S | e Ag | TI U | | Hg: 1 | 1631 / | 245.1 / 747 | 0 / 7471 | |

Circle Method(s) and Metal(s) to be analyzed

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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
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| Pur le Part | Anna vala State | 5/23/23 1/2 | 23 | | |
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| 5 | | | 6 | | Revised |

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eurofins

5/31/2023

Xenco

Environment Testing

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: | |
|----------------|--|
| WOIR Older No. | |

| ject Manager: | Hadlie C | Green | | | | Bill to: (if | different |) | Kalei . | Jennin | gs | | | | | | Work Order Comments | | | | | | | |
|--------------------|------------|-----------|---------|-----------------|-----------------|--------------|---------------|------------|-------------------------------|--------|--------|-------|------|------|-------------------|-----|--|-------------|---------------|---|--------|--|-----------------------------------|--|
| mpany Name: | Ensolun | n, LLC | | | | Compan | y Name | : | Ensol | um, LL | C | | | | | | Program: UST/PST PRP Brownfields RRC Superfund | | | | | | | |
| dress: | 601 N N | 1arienfel | d St St | uite 400 | | Address | | | 601 N Marienfeld St Suite 400 | | | | | 1 1 | State of Project: | | | | | | | | | |
| y, State ZIP: | Midland | , TX 797 | 01 | | | City, Sta | te ZIP: | | Midlar | nd, TX | 79701 | | | | | _ | | | | | I 🗌 PS | T/UST TRR | □ Level IV | |
| one: | 432-557 | 7-8895 | | | Email: | hgreen(| @enso | lum.co | om, kje | enning | s@er | solum | .com | | | | Delivera | bles: | EDD | | ADaP | Othe | r: | |
| ject Name: | W | arbler S | tate Co | om 2Y | Turr | Around | | | | | | | | ANAL | YSIS I | REQ | JEST | | | | | Preserv | ative Codes | |
| ject Number: | | 03D2 | 02418 | 6 | ☑ Routine | Rush | | Pres. | | | | | | | | | | | | | | None: NO | DI Water: H₂O | |
| ject Location: | | 32.4565 | ,-103.5 | 795 | Due Date: | | | | | | | | . " | | | | | | | | | Cool: Cool | MeOH: Me | |
| npler's Name: | | Peter V | an Pat | ten | TAT starts th | | | | | | | | | | | | | | | | | HCL: HC H ₂ SO ₄ : H ₂ | HNO ₃ : HN NaOH: Na | |
| #: MPLE RECEI | PT | Temp Bla | ank: | Yes No | Wet Ice: | | No | Parameters | 6 | | | | | | | | | | | | | H₃PO₄: HP | | |
| nples Received In | | | | Thermometer | ID: | 0 (| | Tam | 300.0) | | | | | | | | | 1 | | | | NaHSO₄: NAB | IS | |
| oler Custody Seals | | es No | N/A | Correction Fa | ctor. | 21 | | Ра | (EPA: | | | | | | | | | | | | | Na ₂ S ₂ O ₃ : NaS | O ₃ | |
| nple Custody Sea | s: Y | es No | N/A | Temperature | Reading | 7 | 1 | | S (EI | | _ | | | | | | | | | | | Zn Acetate+Na | | |
| al Containers: | | | | Corrected Ter | nperature: | | | | 10 145) NE | | | | | | | | | NaOH+Ascorb | ic Acid: SAPC | | | | | |
| Sample Iden | tification | | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | | CHLOF | TPH (8 | втех (| | | | | | | | | | | Sample | Comments | |
| SS07 | A | | Soil | 5/23/2023 | 1235 | 1.0' | Comp | 1 | х | х | Х | | | | | | | | | | | | | |
| SSO | 3 | | Soil | 5/23/2023 | 1305 | 0.5' | Comp | 1 | х | х | Х | | | | | | | | | | | | | |
| SS08 | Α | | Soil | 5/23/2023 | 1310 | 1.0' | Comp | 1 | х | х | х | | _ | | | | | | | | | | | |
| SS09 |) | | Soil | 5/23/2023 | 1315 | 0.5' | Comp | 1 | x | х | Х | | | | | | | | | | | | | |
| SS09 | Α | | Soil | 5/23/2023 | 1320 | 1.0' | Comp | 1 | х | х | х | | | | | | | | | | | | | |
| SS10 |) | | Soil | 5/23/2023 | 1325 | 0.5' | Comp | 1 | х | х | х | | | | | | | _ | | | | | | |
| SS10 | Α | | Soil | 5/23/2023 | 1330 | 1.0' | Comp | 1 | х | x | х | | | | | | | | | | | | | |
| SS1 | | | Soil | 5/23/2023 | 1335 | 0.5 | Comp | 1 | X | х | Х | | | | | | | - | - | - | | | | |
| SS11 | A | | Soil | 5/23/2023 | 1340_ | | Comp | 1 | х | х | х | | | | | | _ | | | | | | | |
| SS12 | | 1 | Soil | 5/23/2023 | 1345 | 0.5' | Comp | 1 | x | х | х | | | | | | | | | | | | | |

| 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 |
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| Texa Un Tait | Amarila Stut | -5/23/23 165 | 23 | | |
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Chain of Custody

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| Work | Order No | | |
|------|----------|--|--|

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| Project Manager: | Hadli | e Green | | | | Bill to: (in | f differen | t) | Kalei Jennings | | | | | | Work Order Comments | | | | | | | | |
|---------------------|----------|------------|---------|-----------------|-----------------|--------------|---------------|--------------|-------------------------------|------------|--------|---------|----|--------|---|---|---|---|---|-----|---|-----------|----------------------------|
| | Enso | lum, LLC | | | | Compar | ny Name | : | Ensolum, LLC | | | | | | Program: UST/PST PRP Brownfields RRC Superfund State of Project: | | | | | | | | |
| Address: | 601 N | N Marienfe | ld St S | uite 400 | | Address | s: | | 601 N Marienfeld St Suite 400 | | | | | | | | | | | | | | |
| City, State ZIP: | Midla | nd, TX 79 | 701 | | | City, Sta | ate ZIP: | | Midla | nd, TX | 79701 | | | | | Reporting: Level II Level III PST/UST TRRP Level IV | | | | | | | |
| Phone: | 432-5 | 557-8895 | | | Email: | hgreen | @enso | lum.co | om, kj | enninc | s@er | solum.d | om | | | Deliverables: EDD ADaPT Other: | | | | | | | |
| Project Name: | | Warbler S | State C | om 2Y | Turr | Around | | | | | | | AN | ALYSIS | SREC | QUEST | | | | | Pre | servativ | ve Codes |
| Project Number: | | 03D: | 202418 | 36 | ☑ Routine | ☐ Rush | h | Pres. | | | | | | | | | | | | | None: NO |) | DI Water: H ₂ C |
| Project Location: | | 32.456 | 5103. | 5795 | Due Date: | | | | | | | | | | | | | | | - 1 | Cool: Co | ol | MeOH: Me |
| Sampler's Name: | | | Van Pa | | TAT starts th | | | | | | | | | | | | | | | | HCL: HC | | HNO ₃ : HN |
| PO #: | | | | | the lab, if re | ceived by | 4:30pm | 5 | | | | | | | 1 | | | | | | H₂S0₄: H | 2 | NaOH: Na |
| SAMPLE RECEI | PT | Temp B | lank: | Yes No | Wet loc | Yes | No | nete | 6 | | | | | | | | | | İ | | H₃PO₄: H | | |
| Samples Received In | ntact: | Yes | | Thermometer | | 4 | | TE . | 300.0) | | | | | | | | | | | | NaHSO ₄ : | | |
| Cooler Custody Seal | | Yes No | | Correction Fa | |) ` | | à | (EPA: | | | | | | | | | | | | Na ₂ S ₂ O ₃ | | |
| Sample Custody Sea | als: | Yes No | N/A | Temperáture | | | | | S (E | | = | | | | | | 1 | 1 | | | Zn Aceta | | |
| Total Containers: | | | | Corrected Te | mperature: | <u> </u> | | | SIDE. | 015 | (8021) | | | | | | | | | | NaOH+A | SCOPPIC A | Acid: SAPC |
| Sample ider | ntificat | ion | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | снго | TPH (8015) | втех | | | | | | | | | | Sai | mple Co | mments |
| SS12 | 2A | | Soil | 5/23/2023 | 1350 | 1.0' | Comp | 1 | X | х | х | | | | | | | | | | | | |
| SS1 | 3 | | Soil | 5/23/2023 | 1355 | 0.5' | Comp | 1 | х | х | х | | | | | | | | | | | | |
| SS13 | 3A | | Soil | 5/23/2023 | 1400 | 1.0' | Comp | 1 | x | х | х | | | | | | | | | | | | |
| SS1 | 4 | | Soil | 5/23/2023 | 1405 | 0.5' | Comp | 1 | х | х | Х | | | | | | | | | | | | |
| SS14 | 4A | | Soil | 5/23/2023 | 1410 | 1.0' | Comp | 1 | х | х | х | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | _ | | | | | | | | |
| | | | | | 114 | 20- | | | | | | | | | | | | | | | | | |
| | | | | Total | Con | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | 1 | | | | | | | | |

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| 1 Poter Ver pate | Augusta State | 5/23/23 165 | 7.3 | | |
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| 5 | | (| 6 | | (|

5/31/2023

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4726-1

SDG Number: 32.4565,-103.5795

Login Number: 4726 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 | |

4

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4726-1

 SDG Number: 32.4565,-103.5795

List Source: Eurofins Midland List Creation: 05/25/23 11:10 AM

List Number: 2 Creator: Rodriguez, Leticia

Sample collection date/times are provided.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

Login Number: 4726

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |

True

True

True

N/A

True

N/A

1

2

4

6

8

10

12

TG

14



APPENDIX E

NMOCD Notifications

From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 5/22/2023)

Date: Friday, May 19, 2023 1:26:13 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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



From: Hadlie Green <hgreen@ensolum.com>

Sent: Thursday, May 18, 2023 11:41 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 5/22/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of May 22, 2023.

- Warbler State Com 002Y / NAPP2313130641
 - Sampling Date: 5/23-24/2023 @ 10:00 AM MST

•

Thank you,





Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC



APPENDIX F

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 | NAPP2313130641 |
|----------------|----------------|
| District RP | |
| Facility ID | fAPP2131530650 |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party | COG Operating, LLC | OGRID | 217817 | | |
|-------------------------|--|-------------------|----------------|--|--|
| Contact Name | Jacob Laird | Contact Telephone | (575) 703-5482 | | |
| Contact email | Jacob.Laird@ConocoPhillips.com Incident # (assigned by OCD) NAPP2313130641 | | | | |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 | | | | |

| Location of Release Source | | | | | | | |
|---|---|-----|-----|----------------------|--------------|----------|--|
| | | | | | Longitude | 103.5795 | |
| Site Name | Site Name Warbler State Com 002Y Site Type Tank Battery | | | | | | |
| Date Release Discovered April 27, 2023 | | | | API# (if applicable) | 30-025-42904 | | |
| Unit Letter Section Township Range County | | | | | | | |
| С | 28 | 21S | 33E | | Lea | | |
| Surface Owner: State Federal Tribal Private (Name: Merchant Livestock | | | | | | | |

Nature and Volume of Release

| Material | (s) Released (Select all that apply and attach calculations or specific | justification for the volumes provided below) |
|------------------|--|---|
| Crude Oil | Volume Released (bbls) 3.924 | Volume Recovered (bbls) 0 |
| Produced Water | Volume Released (bbls) 1.68 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ■ Yes □ No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| C CD 1 | | |

Cause of Release

The release was caused by a dump failure on the FWKO sending fluid out the flare. No fire occurred. The release was on the pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

| 73 | 77.00 | -C + C -C |
|-------|-----------|-----------|
| Page. | LA COMBON | 1 A 27 K |
| 1 426 | 1400 | 4 420 |
| | | |

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| Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No If YES, was immediate no | If YES, for what reason(s) does the responsible party consider this a major release? tice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
|--|---|
| | Initial Response |
| The responsible p | arty must undertake the following actions immediately unless they could create a safety hazard that would result in injury |
| Released materials hav | been secured to protect human health and the environment. we been contained via the use of berms or dikes, absorbent pads, or other containment devices. coverable materials have been removed and managed appropriately. above have not been undertaken, explain why: |
| has begun, please attach a | AC the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. |
| regulations all operators are republic health or the environme failed to adequately investigated addition, OCD acceptance of and/or regulations. Printed Name Signature: | mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger tent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have te and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Y N. Esparza Title: Environmental Technician Date: 5/11/2023 Telephone: (432) 221-0398 |
| OCD Only Received by: | elyn Harimon Date:05/11/2023_ |

| | L48 Spill Volume Estimate Form - <mark>Fill In Gray Cells</mark> | | | | | | | | | | | | |
|---|--|----------------------|---------------------------|--|--|---|--|----------------------------------|----------------------------------|---|---|---|---|
| Facility Name & Well Number(s): | | | | | e & Well Number(s): | : Warbler St. Com 2Y Release Discove | | ery Date & Time: 4/27/23 9:00 AM | | | | | |
| | Provide any known details about the event | | | | | | | | Mechanical Damage/Failure | Secondary Cause (dropdown): | Mechanical Damage/Failure | | |
| | | | | | | Recovered Volume (bbl.) (if available, not included in volume calculations) | Method of Determination (dropdown) | Release Type | (dropdown): | | ain in Last 24 Hours ropdown): | | ecovered (not included in lations, informational): |
| BU: P | ermian | ~ | Asse | t Area: | DBE - Asset Avg. | | Field Measurement | Oil Mi | xture | | No ~ | | |
| | | | | Known | Volume (dropdown): | No > | | | | | | | |
| | Known Area (dropdown) | | | vn Area (dropdown): | No × | | | | | | | | |
| S | | | | | Spi | Il Calculation - Subsurface | Spill - Rectangle | | | | | Remediation | n Recommendation |
| Convert Irregular shape into a series of rectangles | Length (ft.) | Width (ft.) | Average Depth (in.) | On/Off Pad (dropdown) | Soil Spilled-Fluid Saturation (%.) | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) | Percentage of Fluid is a M | f Oil if Spilled lixture (%.) | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) | Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .) | Current Rule of Thumb - RMR Handover Volume, (yd³.) |
| Rectangle A Rectangle B Rectangle C | 280.0 60.0 60.0 | 90.0 60.0 30.0 | 0.1 0.1 0.4 | On-Pad ^V On-Pad ^V | 10.50% 10.50% 10.50% | 37.38 5.34 10.68 | 3.92 0.56 1.12 | | | 2.75 0.39 0.78 | 1.18 0.17 0.34 | 9.72 1.39 2.78 | |
| Rectangle D Rectangle E Rectangle F Rectangle G Rectangle H | | | | · · · · · · · · · · · · · · · · · · · | | 0.00 0.00 0.00 0.00 0.00 | | 70 | % | | | 0.00 0.00 0.00 0.00 0.00 | 750 |
| Rectangle I Rectangle J | | | | × | | 0.00 0.00 | | | | | | 0.00 | |
| | Total Subsurface Volume Released: 5.6070 | | | | | | | | | 3.9249 | 1.6821 | 13.89 | BU |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 215847

CONDITIONS

| Operator: | OGRID: |
|-------------------|---|
| COG OPERATING LLC | 229137 |
| | Action Number: |
| Midland, TX 79701 | 215847 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Create | By Condition | Condition Date |
|--------|--------------|-------------------|
| jhar | on None | 5/11/2023 |

re of New Mexico

| Incident ID | NAPP2313130641 |
|----------------|----------------|
| District RP | |
| Facility ID | fAPP2131530650 |
| 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? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ⊠ Yes □ No | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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. | | |
| \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data | ls. | |
| ☐ 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 | | |
| ☐ Borning of excavation logs Photographs including date and GIS information | | |
| ☐ Topographic/Aerial maps | | |
| ☐ Laboratory data including chain of custody | | |

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

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

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| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
|---|--|
| Printed Name:Jacob Laird | Title:Environmental Engineer |
| Signature: Jacob Laird | Date:07/20/2023 |
| email:Jacob.Laird@conocophillips.com | Telephone:(575)703-5482 |
| | |
| OCD Only | |
| Received by: Shelly Wells | Date: 7/24/2023 |
| | |

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Closure

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

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

| ☐ A scaled site and sampling diagram as described in 19.15.29.11 | NMAC |
|---|--|
| Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection) | f the liner integrity if applicable (Note: appropriate OCD District office |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC I | District office must be notified 2 days prior to final sampling) |
| □ Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conductor accordance with 19.15.29.13 NMAC including notification to the OCI. | C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in |
| Printed Name:Jacob Laird | |
| Signature: <u>Jacob Laird</u> | Date: _07/20/2023 |
| email:Jacob.Laird@conocophillips.com | Telephone:(575)703-5482 |
| | |
| OCD Only | |
| Received by: Shelly Wells | Date: <u>7/24/2023</u> |
| | f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations. |
| Closure Approved by: Nelson Velez | Date: 10/16/2023 |
| Printed Name: Nelson Velez | Title: _Environmental Specialist - Adv |

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

CONDITIONS

Action 243588

CONDITIONS

| Operator: | OGRID: |
|--------------------|---|
| COG OPERATING LLC | 229137 |
| 600 W Illinois Ave | Action Number: |
| Midland, TX 79701 | 243588 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|-----------|----------------|
| nvelez | None | 10/16/2023 |