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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ms. Lauren Dolginko
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 9/23/2024 6:06:38 PM

## JOB DESCRIPTION

2828 W 28th Street

## JOB NUMBER

460-311357-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

# Eurofins Edison

## Job Notes

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## Authorization

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Authorized for release by
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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | Surrogate is outside acceptance limits. |
| * | MS or MSD is outside acceptance limits. |
| B | The analyte was found in an associated blank, as well as in the sample. |
| J | Indicates an estimated value. |
| U | Analyzed for but not detected. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| * | Duplicate RPD exceeds control limits |
| U | Analyzed for but not detected. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| * | Surrogate is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |
| * | MS or MSD is outside acceptance limits. |
| U | Analyzed for but not detected. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Sample result is greater than the MDL but below the CRDL |
| N | Spiked sample recovery is not within control limits. |
| U | Indicates analyzed for but not detected. |

### General Chemistry

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

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |

## Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

**Job Narrative**
**460-311357-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**
The samples were received on 9/13/2024 7:00 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 1.3°C.

**Method 8260D - Volatile Organic Compounds by GC/MS**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS), RXMW-5 (460-311357-2MSD) and TB_09132024 (460-311357-3) were analyzed for Volatile Organic Compounds by GC/MS. The samples were analyzed on 9/16/2024 and 9/19/2024.

The continuing calibration verification (CCV) analyzed in batch 460-996725 was outside the method criteria for the following analyte: 1,2,3-Trichlorobenzene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: RXMW-5 (460-311357-2). These results have been reported and qualified.

The method blank for analytical batch 460-996185 contained Methylene Chloride above the method detection limit (MDL). This compound is considered a common laboratory contaminant. The associated samples were not re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL.

**Method 8270E - Semivolatile Organic Compounds (GC/MS)**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared and analyzed on 9/14/2024.

The continuing calibration verification (CCV) analyzed in batch 460-995893 was outside the method criteria for the following analyte(s): 3 & 4 Methylphenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

**Method 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution). The samples were prepared and analyzed on 9/16/2024.

**Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 9/14/2024 and analyzed on 9/16/2024.

**Method 8081B - Organochlorine Pesticides (GC)**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 9/14/2024 and analyzed on 9/17/2024.

## Job ID: 460-311357-1 (Continued) Eurofins Edison

The laboratory control sample duplicate (LCSD) for preparation batch 460-995875 and analytical batch 460-996147 recovered outside control limits for Endosulfan I on the primary column. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.
(LCSD 460-995875/3-A)

The surrogates Tetrachloro-m-xylene and DCB Decachlorobiphenyl recovery for the blank associated with preparation batch 460-995872 and 460-995875 and analytical batch 460-996147 was outside the upper control limits.
(MB 460-995872/1-B)

**Method 6020B - Metals (ICP/MS)**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Metals (ICP/MS). The samples were prepared and analyzed on 9/16/2024.

**Method 6020B - Metals (ICP/MS) - Dissolved**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared and analyzed on 9/20/2024.

**Method 7470A - Mercury (CVAA)**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 9/18/2024.

**Method 7470A - Mercury (CVAA) - Dissolved**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Mercury (CVAA) - Dissolved. The samples were prepared and analyzed on 9/20/2024 and 9/23/2024.

**Method 7196A - Chromium, Hexavalent**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2) and RXMW-5 (460-311357-2DU) were analyzed for Chromium, Hexavalent. The samples were analyzed on 9/13/2024.

**Method 7196A - Chromium, Trivalent (Colorimetric)**
Samples RXMW-1 (460-311357-1) and RXMW-5 (460-311357-2) were analyzed for Chromium, Trivalent (Colorimetric). The samples were analyzed on 9/17/2024.

**Method 9012B - Cyanide, Total andor Amenable**
Samples RXMW-1 (460-311357-1), RXMW-5 (460-311357-2), RXMW-5 (460-311357-2MS) and RXMW-5 (460-311357-2MSD) were analyzed for Cyanide, Total andor Amenable. The samples were prepared and analyzed on 9/18/2024.

# Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 2828 W 28th Street

Job ID: 460-311357-1

## Client Sample ID: RXMW-1 — Lab Sample ID: 460-311357-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.0 | | 2.0 | 0.89 | ug/L | 1 | | 6020B | Total/NA |
| Barium | 110 | | 4.0 | 0.91 | ug/L | 1 | | 6020B | Total/NA |
| Copper | 6.8 | | 4.0 | 2.5 | ug/L | 1 | | 6020B | Total/NA |
| Manganese | 23.8 | | 8.0 | 1.5 | ug/L | 1 | | 6020B | Total/NA |
| Nickel | 2.1 | J | 4.0 | 0.91 | ug/L | 1 | | 6020B | Total/NA |
| Selenium | 2.0 | J | 2.5 | 0.59 | ug/L | 1 | | 6020B | Total/NA |
| Arsenic | 4.2 | | 2.0 | 0.89 | ug/L | 1 | | 6020B | Dissolved |
| Barium | 111 | | 4.0 | 0.91 | ug/L | 1 | | 6020B | Dissolved |
| Copper | 5.3 | | 4.0 | 2.5 | ug/L | 1 | | 6020B | Dissolved |
| Manganese | 24.5 | | 8.0 | 1.5 | ug/L | 1 | | 6020B | Dissolved |
| Nickel | 1.9 | J | 4.0 | 0.91 | ug/L | 1 | | 6020B | Dissolved |
| Antimony | 4.7 | | 2.0 | 0.76 | ug/L | 1 | | 6020B | Dissolved |
| Selenium | 1.9 | J | 2.5 | 0.59 | ug/L | 1 | | 6020B | Dissolved |
| Vanadium | 5.3 | | 4.0 | 0.68 | ug/L | 1 | | 6020B | Dissolved |
| Sodium | 197000 | | 500 | 219 | ug/L | 1 | | 6020B | Dissolved |
| Magnesium | 45000 | | 200 | 46.9 | ug/L | 1 | | 6020B | Dissolved |
| Potassium | 14800 | | 200 | 112 | ug/L | 1 | | 6020B | Dissolved |
| Calcium | 97100 | | 500 | 53.6 | ug/L | 1 | | 6020B | Dissolved |

## Client Sample ID: RXMW-5 — Lab Sample ID: 460-311357-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 38 | | 5.0 | 4.4 | ug/L | 1 | | 8260D | Total/NA |
| Methylene Chloride | 0.32 | J | 1.0 | 0.32 | ug/L | 1 | | 8260D | Total/NA |
| Arsenic | 3.3 | | 2.0 | 0.89 | ug/L | 1 | | 6020B | Total/NA |
| Barium | 18.3 | | 4.0 | 0.91 | ug/L | 1 | | 6020B | Total/NA |
| Manganese | 192 | | 8.0 | 1.5 | ug/L | 1 | | 6020B | Total/NA |
| Nickel | 1.7 | J | 4.0 | 0.91 | ug/L | 1 | | 6020B | Total/NA |
| Lead | 2.1 | | 1.2 | 0.84 | ug/L | 1 | | 6020B | Total/NA |
| Selenium | 0.72 | J | 2.5 | 0.59 | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 21.2 | | 16.0 | 6.5 | ug/L | 1 | | 6020B | Total/NA |
| Arsenic | 3.0 | | 2.0 | 0.89 | ug/L | 1 | | 6020B | Dissolved |
| Barium | 16.1 | | 4.0 | 0.91 | ug/L | 1 | | 6020B | Dissolved |
| Manganese | 193 | | 8.0 | 1.5 | ug/L | 1 | | 6020B | Dissolved |
| Nickel | 1.3 | J | 4.0 | 0.91 | ug/L | 1 | | 6020B | Dissolved |
| Antimony | 1.2 | J | 2.0 | 0.76 | ug/L | 1 | | 6020B | Dissolved |
| Selenium | 0.64 | J | 2.5 | 0.59 | ug/L | 1 | | 6020B | Dissolved |
| Vanadium | 6.1 | | 4.0 | 0.68 | ug/L | 1 | | 6020B | Dissolved |
| Zinc | 17.7 | | 16.0 | 6.5 | ug/L | 1 | | 6020B | Dissolved |
| Sodium | 218000 | | 500 | 219 | ug/L | 1 | | 6020B | Dissolved |
| Magnesium | 22100 | | 200 | 46.9 | ug/L | 1 | | 6020B | Dissolved |
| Potassium | 15400 | | 200 | 112 | ug/L | 1 | | 6020B | Dissolved |
| Calcium | 292000 | | 500 | 53.6 | ug/L | 1 | | 6020B | Dissolved |
| Iron | 2730 | | 120 | 58.2 | ug/L | 1 | | 6020B | Dissolved |

## Client Sample ID: TB_09132024 — Lab Sample ID: 460-311357-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.73 | J B | 1.0 | 0.32 | ug/L | 1 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

**Client Sample ID: RXMW-1**
**Lab Sample ID: 460-311357-1**
**Date Collected: 09/13/24 12:05**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.43 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 14:54 | 1 |
| 1,4-Dioxane | 50 | U | 50 | 28 | ug/L | | | 09/19/24 14:54 | 1 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1.9 | ug/L | | | 09/19/24 14:54 | 1 |
| Acetone | 5.0 | U | 5.0 | 4.4 | ug/L | | | 09/19/24 14:54 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.20 | ug/L | | | 09/19/24 14:54 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/19/24 14:54 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/19/24 14:54 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 14:54 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/19/24 14:54 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.30 | ug/L | | | 09/19/24 14:54 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/19/24 14:54 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 14:54 | 1 |
| n-Butylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 14:54 | 1 |
| N-Propylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 14:54 | 1 |
| sec-Butylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/19/24 14:54 | 1 |
| tert-Butylbenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/19/24 14:54 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.25 | ug/L | | | 09/19/24 14:54 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/19/24 14:54 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/19/24 14:54 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.31 | ug/L | | | 09/19/24 14:54 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.17 | ug/L | | | 09/19/24 14:54 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.65 | ug/L | | | 09/19/24 14:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *70 - 128* | | *09/19/24 14:54* | *1* |
| *4-Bromofluorobenzene* | *104* | | *76 - 120* | | *09/19/24 14:54* | *1* |
| *Dibromofluoromethane (Surr)* | *83* | | *77 - 132* | | *09/19/24 14:54* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* | | *09/19/24 14:54* | *1* |

### Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.20 | U | 0.20 | 0.072 | ug/L | | 09/16/24 10:11 | 09/16/24 22:44 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Dioxane-d8* | *35* | | *10 - 150* | *09/16/24 10:11* | *09/16/24 22:44* | *1* |

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 10 | U | 10 | 0.67 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| 3 & 4 Methylphenol | 10 | U | 10 | 0.64 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Acenaphthene | 10 | U | 10 | 1.1 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Acenaphthylene | 10 | U | 10 | 0.82 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Anthracene | 10 | U | 10 | 1.3 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |

Client: Roux Environmental Eng & Geology DPC
Project/Site: 2828 W 28th Street

Job ID: 460-311357-1

**Client Sample ID: RXMW-1**
**Date Collected: 09/13/24 12:05**
**Date Received: 09/13/24 19:00**

**Lab Sample ID: 460-311357-1**
**Matrix: Water**

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 1.0 | U | 1.0 | 0.59 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Benzo[a]pyrene | 1.0 | U | 1.0 | 0.41 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Benzo[b]fluoranthene | 2.0 | U | 2.0 | 0.68 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Benzo[g,h,i]perylene | 10 | U | 10 | 0.70 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Benzo[k]fluoranthene | 1.0 | U | 1.0 | 0.67 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Chrysene | 2.0 | U | 2.0 | 0.91 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Dibenz(a,h)anthracene | 1.0 | U | 1.0 | 0.72 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Dibenzofuran | 10 | U | 10 | 1.1 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Fluoranthene | 10 | U | 10 | 0.84 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Fluorene | 10 | U | 10 | 0.91 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Hexachlorobenzene | 1.0 | U | 1.0 | 0.40 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Indeno[1,2,3-cd]pyrene | 2.0 | U | 2.0 | 0.94 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Naphthalene | 2.0 | U | 2.0 | 0.54 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Pentachlorophenol | 20 | U | 20 | 1.4 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Phenanthrene | 10 | U | 10 | 1.3 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Phenol | 10 | U | 10 | 0.29 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |
| Pyrene | 10 | U | 10 | 1.6 | ug/L | | 09/14/24 09:55 | 09/14/24 21:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *86* | | *37 - 150* | *09/14/24 09:55* | *09/14/24 21:37* | *1* |
| *2-Fluorobiphenyl* | *90* | | *46 - 139* | *09/14/24 09:55* | *09/14/24 21:37* | *1* |
| *2-Fluorophenol (Surr)* | *47* | | *16 - 80* | *09/14/24 09:55* | *09/14/24 21:37* | *1* |
| *Nitrobenzene-d5 (Surr)* | *88* | | *51 - 145* | *09/14/24 09:55* | *09/14/24 21:37* | *1* |
| *Phenol-d5 (Surr)* | *32* | | *10 - 56* | *09/14/24 09:55* | *09/14/24 21:37* | *1* |
| *Terphenyl-d14 (Surr)* | *45* | | *13 - 159* | *09/14/24 09:55* | *09/14/24 21:37* | *1* |

### Method: SW846 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| alpha-BHC | 0.020 | U | 0.020 | 0.0070 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| beta-BHC | 0.020 | U | 0.020 | 0.015 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| delta-BHC | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| gamma-BHC (Lindane) | 0.020 | U | 0.020 | 0.012 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Chlordane (technical) | 0.50 | U | 0.50 | 0.055 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| 4,4'-DDD | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| 4,4'-DDE | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| 4,4'-DDT | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Dieldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Endosulfan I | 0.020 | U * | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Endosulfan II | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Endosulfan sulfate | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Endrin | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Endrin aldehyde | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Endrin ketone | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Heptachlor | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Heptachlor epoxide | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Methoxychlor | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| Toxaphene | 0.50 | U | 0.50 | 0.11 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |
| cis-Chlordane | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/17/24 00:23 | 1 |

**Client Sample ID: RXMW-1**
**Lab Sample ID: 460-311357-1**
**Date Collected: 09/13/24 12:05**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *135* | * | *34 - 120* | *09/14/24 11:29* | *09/17/24 00:23* | *1* |
| *Tetrachloro-m-xylene* | *142* | * | *34 - 120* | *09/14/24 11:29* | *09/17/24 00:23* | *1* |
| *DCB Decachlorobiphenyl* | *137* | * | *30 - 131* | *09/14/24 11:29* | *09/17/24 00:23* | *1* |
| *DCB Decachlorobiphenyl* | *152* | * | *30 - 131* | *09/14/24 11:29* | *09/17/24 00:23* | *1* |

### Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1221 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1232 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1242 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1248 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1254 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1260 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor-1262 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Aroclor 1268 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |
| Polychlorinated biphenyls, Total | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 13:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *100* | | *18 - 145* | *09/14/24 11:42* | *09/16/24 13:49* | *1* |
| *DCB Decachlorobiphenyl* | *87* | | *18 - 145* | *09/14/24 11:42* | *09/16/24 13:49* | *1* |
| *Tetrachloro-m-xylene* | *88* | | *21 - 124* | *09/14/24 11:42* | *09/16/24 13:49* | *1* |
| *Tetrachloro-m-xylene* | *82* | | *21 - 124* | *09/14/24 11:42* | *09/16/24 13:49* | *1* |

### Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | 0.29 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| **Arsenic** | **4.0** | | 2.0 | 0.89 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| **Barium** | **110** | | 4.0 | 0.91 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| Beryllium | 0.80 | U | 0.80 | 0.13 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| Cadmium | 2.0 | U | 2.0 | 0.39 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| Chromium | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| **Copper** | **6.8** | | 4.0 | 2.5 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| **Manganese** | **23.8** | | 8.0 | 1.5 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| **Nickel** | **2.1** | **J** | 4.0 | 0.91 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| Lead | 1.2 | U | 1.2 | 0.84 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| **Selenium** | **2.0** | **J** | 2.5 | 0.59 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |
| Zinc | 16.0 | U | 16.0 | 6.5 | ug/L | | 09/16/24 09:45 | 09/16/24 22:26 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | 0.29 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Arsenic** | **4.2** | | 2.0 | 0.89 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Barium** | **111** | | 4.0 | 0.91 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Beryllium | 0.80 | U | 0.80 | 0.13 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Cadmium | 2.0 | U | 2.0 | 0.39 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Cobalt | 4.0 | U | 4.0 | 0.71 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Chromium | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Copper** | **5.3** | | 4.0 | 2.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Manganese** | **24.5** | | 8.0 | 1.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Nickel** | **1.9** | **J** | 4.0 | 0.91 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |

## Client Sample ID: RXMW-1
**Lab Sample ID: 460-311357-1**

**Date Collected: 09/13/24 12:05**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

### Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.2 | U | 1.2 | 0.84 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Antimony** | **4.7** | | 2.0 | 0.76 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Selenium** | **1.9** | **J** | 2.5 | 0.59 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Vanadium** | **5.3** | | 4.0 | 0.68 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Zinc | 16.0 | U | 16.0 | 6.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Aluminum | 40.0 | U | 40.0 | 19.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Sodium** | **197000** | | 500 | 219 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Magnesium** | **45000** | | 200 | 46.9 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Potassium** | **14800** | | 200 | 112 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| **Calcium** | **97100** | | 500 | 53.6 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Iron | 120 | U | 120 | 58.2 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |
| Thallium | 0.80 | U | 0.80 | 0.21 | ug/L | | 09/20/24 10:45 | 09/20/24 12:29 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/18/24 11:50 | 09/18/24 14:59 | 1 |

### Method: SW846 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/23/24 14:43 | 09/23/24 15:43 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cr (III) (SW846 7196A) | 10.0 | U | 10.0 | 10.0 | ug/L | | | 09/17/24 12:50 | 1 |
| Cr (VI) (SW846 7196A) | 10.0 | U | 10.0 | 8.1 | ug/L | | | 09/13/24 23:45 | 1 |
| Cyanide, Total (SW846 9012B) | 0.010 | U | 0.010 | 0.0040 | mg/L | | 09/18/24 17:53 | 09/18/24 21:26 | 1 |

## Client Sample ID: RXMW-5
**Lab Sample ID: 460-311357-2**

**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.43 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 14:32 | 1 |
| 1,4-Dioxane | 50 | U | 50 | 28 | ug/L | | | 09/19/24 14:32 | 1 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1.9 | ug/L | | | 09/19/24 14:32 | 1 |
| **Acetone** | **38** | | 5.0 | 4.4 | ug/L | | | 09/19/24 14:32 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.20 | ug/L | | | 09/19/24 14:32 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/19/24 14:32 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/19/24 14:32 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 14:32 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/19/24 14:32 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.30 | ug/L | | | 09/19/24 14:32 | 1 |

**Client Sample ID: RXMW-5**
**Lab Sample ID: 460-311357-2**
**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/19/24 14:32 | 1 |
| **Methylene Chloride** | **0.32** | **J** | 1.0 | 0.32 | ug/L | | | 09/19/24 14:32 | 1 |
| n-Butylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 14:32 | 1 |
| N-Propylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 14:32 | 1 |
| sec-Butylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/19/24 14:32 | 1 |
| tert-Butylbenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/19/24 14:32 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.25 | ug/L | | | 09/19/24 14:32 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/19/24 14:32 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/19/24 14:32 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.31 | ug/L | | | 09/19/24 14:32 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.17 | ug/L | | | 09/19/24 14:32 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.65 | ug/L | | | 09/19/24 14:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *84* | | *70 - 128* | | *09/19/24 14:32* | *1* |
| *4-Bromofluorobenzene* | *93* | | *76 - 120* | | *09/19/24 14:32* | *1* |
| *Dibromofluoromethane (Surr)* | *76* | * | *77 - 132* | | *09/19/24 14:32* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *09/19/24 14:32* | *1* |

### Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.20 | U | 0.20 | 0.072 | ug/L | | 09/16/24 10:11 | 09/16/24 22:59 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Dioxane-d8* | *43* | | *10 - 150* | *09/16/24 10:11* | *09/16/24 22:59* | *1* |

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 10 | U | 10 | 0.67 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| 3 & 4 Methylphenol | 10 | U | 10 | 0.64 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Acenaphthene | 10 | U | 10 | 1.1 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Acenaphthylene | 10 | U | 10 | 0.82 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Anthracene | 10 | U | 10 | 1.3 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Benzo[a]anthracene | 1.0 | U | 1.0 | 0.59 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Benzo[a]pyrene | 1.0 | U | 1.0 | 0.41 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Benzo[b]fluoranthene | 2.0 | U | 2.0 | 0.68 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Benzo[g,h,i]perylene | 10 | U | 10 | 0.70 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Benzo[k]fluoranthene | 1.0 | U | 1.0 | 0.67 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Chrysene | 2.0 | U | 2.0 | 0.91 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Dibenz(a,h)anthracene | 1.0 | U | 1.0 | 0.72 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Dibenzofuran | 10 | U | 10 | 1.1 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Fluoranthene | 10 | U | 10 | 0.84 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Fluorene | 10 | U | 10 | 0.91 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Hexachlorobenzene | 1.0 | U | 1.0 | 0.40 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Indeno[1,2,3-cd]pyrene | 2.0 | U | 2.0 | 0.94 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Naphthalene | 2.0 | U | 2.0 | 0.54 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Pentachlorophenol | 20 | U | 20 | 1.4 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Phenanthrene | 10 | U | 10 | 1.3 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Phenol | 10 | U | 10 | 0.29 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |
| Pyrene | 10 | U | 10 | 1.6 | ug/L | | 09/14/24 09:55 | 09/14/24 22:18 | 1 |

**Client Sample ID: RXMW-5**
**Lab Sample ID: 460-311357-2**
**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *85* | | *37 - 150* | *09/14/24 09:55* | *09/14/24 22:18* | *1* |
| *2-Fluorobiphenyl* | *86* | | *46 - 139* | *09/14/24 09:55* | *09/14/24 22:18* | *1* |
| *2-Fluorophenol (Surr)* | *44* | | *16 - 80* | *09/14/24 09:55* | *09/14/24 22:18* | *1* |
| *Nitrobenzene-d5 (Surr)* | *84* | | *51 - 145* | *09/14/24 09:55* | *09/14/24 22:18* | *1* |
| *Phenol-d5 (Surr)* | *30* | | *10 - 56* | *09/14/24 09:55* | *09/14/24 22:18* | *1* |
| *Terphenyl-d14 (Surr)* | *39* | | *13 - 159* | *09/14/24 09:55* | *09/14/24 22:18* | *1* |

## Method: SW846 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| alpha-BHC | 0.020 | U | 0.020 | 0.0070 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| beta-BHC | 0.020 | U | 0.020 | 0.015 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| delta-BHC | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| gamma-BHC (Lindane) | 0.020 | U | 0.020 | 0.012 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Chlordane (technical) | 0.50 | U | 0.50 | 0.055 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| 4,4'-DDD | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| 4,4'-DDE | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| 4,4'-DDT | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Dieldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Endosulfan I | 0.020 | U * | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Endosulfan II | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Endosulfan sulfate | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Endrin | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Endrin aldehyde | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Endrin ketone | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Heptachlor | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Heptachlor epoxide | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Methoxychlor | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| Toxaphene | 0.50 | U | 0.50 | 0.11 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |
| cis-Chlordane | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/17/24 01:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *106* | | *34 - 120* | *09/14/24 11:29* | *09/17/24 01:00* | *1* |
| *Tetrachloro-m-xylene* | *105* | | *34 - 120* | *09/14/24 11:29* | *09/17/24 01:00* | *1* |
| *DCB Decachlorobiphenyl* | *113* | | *30 - 131* | *09/14/24 11:29* | *09/17/24 01:00* | *1* |
| *DCB Decachlorobiphenyl* | *119* | | *30 - 131* | *09/14/24 11:29* | *09/17/24 01:00* | *1* |

## Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1221 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1232 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1242 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1248 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1254 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1260 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor-1262 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Aroclor 1268 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Polychlorinated biphenyls, Total | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:42 | 09/16/24 14:56 | 1 |

**Client Sample ID: RXMW-5**
**Date Collected: 09/13/24 13:30**
**Date Received: 09/13/24 19:00**

**Lab Sample ID: 460-311357-2**
**Matrix: Water**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl | 83 | | 18 - 145 | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| DCB Decachlorobiphenyl | 74 | | 18 - 145 | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Tetrachloro-m-xylene | 68 | | 21 - 124 | 09/14/24 11:42 | 09/16/24 14:56 | 1 |
| Tetrachloro-m-xylene | 67 | | 21 - 124 | 09/14/24 11:42 | 09/16/24 14:56 | 1 |

## Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | 0.29 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Arsenic** | **3.3** | | 2.0 | 0.89 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Barium** | **18.3** | | 4.0 | 0.91 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| Beryllium | 0.80 | U | 0.80 | 0.13 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| Cadmium | 2.0 | U | 2.0 | 0.39 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| Chromium | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| Copper | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Manganese** | **192** | | 8.0 | 1.5 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Nickel** | **1.7** | **J** | 4.0 | 0.91 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Lead** | **2.1** | | 1.2 | 0.84 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Selenium** | **0.72** | **J** | 2.5 | 0.59 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |
| **Zinc** | **21.2** | | 16.0 | 6.5 | ug/L | | 09/16/24 09:45 | 09/16/24 21:51 | 1 |

## Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | 0.29 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Arsenic** | **3.0** | | 2.0 | 0.89 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Barium** | **16.1** | | 4.0 | 0.91 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Beryllium | 0.80 | U | 0.80 | 0.13 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Cadmium | 2.0 | U | 2.0 | 0.39 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Cobalt | 4.0 | U | 4.0 | 0.71 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Chromium | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Copper | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Manganese** | **193** | | 8.0 | 1.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Nickel** | **1.3** | **J** | 4.0 | 0.91 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Lead | 1.2 | U | 1.2 | 0.84 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Antimony** | **1.2** | **J** | 2.0 | 0.76 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Selenium** | **0.64** | **J** | 2.5 | 0.59 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Vanadium** | **6.1** | | 4.0 | 0.68 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Zinc** | **17.7** | | 16.0 | 6.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Aluminum | 40.0 | U | 40.0 | 19.5 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Sodium** | **218000** | | 500 | 219 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Magnesium** | **22100** | | 200 | 46.9 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Potassium** | **15400** | | 200 | 112 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Calcium** | **292000** | | 500 | 53.6 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| **Iron** | **2730** | | 120 | 58.2 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |
| Thallium | 0.80 | U | 0.80 | 0.21 | ug/L | | 09/20/24 10:45 | 09/20/24 12:19 | 1 |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/18/24 11:50 | 09/18/24 14:12 | 1 |

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-311357-1
Project/Site: 2828 W 28th Street

## Client Sample ID: RXMW-5
**Lab Sample ID: 460-311357-2**
**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

### Method: SW846 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/20/24 14:32 | 09/20/24 15:57 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cr (III) (SW846 7196A) | 10.0 | U | 10.0 | 10.0 | ug/L | | | 09/17/24 12:50 | 1 |
| Cr (VI) (SW846 7196A) | 10.0 | U | 10.0 | 8.1 | ug/L | | | 09/13/24 23:45 | 1 |
| Cyanide, Total (SW846 9012B) | 0.010 | U | 0.010 | 0.0040 | mg/L | | 09/18/24 17:53 | 09/18/24 21:26 | 1 |

## Client Sample ID: TB_09132024
**Lab Sample ID: 460-311357-3**
**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.43 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/16/24 22:49 | 1 |
| 1,4-Dioxane | 50 | U | 50 | 28 | ug/L | | | 09/16/24 22:49 | 1 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1.9 | ug/L | | | 09/16/24 22:49 | 1 |
| Acetone | 5.0 | U | 5.0 | 4.4 | ug/L | | | 09/16/24 22:49 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.20 | ug/L | | | 09/16/24 22:49 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/16/24 22:49 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/16/24 22:49 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/16/24 22:49 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/16/24 22:49 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.30 | ug/L | | | 09/16/24 22:49 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/16/24 22:49 | 1 |
| **Methylene Chloride** | **0.73** | **J B** | 1.0 | 0.32 | ug/L | | | 09/16/24 22:49 | 1 |
| n-Butylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/16/24 22:49 | 1 |
| N-Propylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/16/24 22:49 | 1 |
| sec-Butylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/16/24 22:49 | 1 |
| tert-Butylbenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/16/24 22:49 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.25 | ug/L | | | 09/16/24 22:49 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/16/24 22:49 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/16/24 22:49 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.31 | ug/L | | | 09/16/24 22:49 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.17 | ug/L | | | 09/16/24 22:49 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.65 | ug/L | | | 09/16/24 22:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *70 - 128* | | *09/16/24 22:49* | *1* |
| *4-Bromofluorobenzene* | *112* | | *76 - 120* | | *09/16/24 22:49* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *77 - 132* | | *09/16/24 22:49* | *1* |
| *Toluene-d8 (Surr)* | *86* | | *80 - 120* | | *09/16/24 22:49* | *1* |

# Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: 2828 W 28th Street

Job ID: 460-311357-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (70-128) | (76-120) | (77-132) | (80-120) |
| 460-311357-1 | RXMW-1 | 91 | 104 | 83 | 105 |
| 460-311357-2 | RXMW-5 | 84 | 93 | 76 * | 95 |
| 460-311357-2 MS | RXMW-5 | 86 | 95 | 85 | 96 |
| 460-311357-2 MSD | RXMW-5 | 92 | 97 | 88 | 98 |
| 460-311357-3 | TB_09132024 | 102 | 112 | 100 | 86 |
| LCS 460-996185/4 | Lab Control Sample | 101 | 102 | 100 | 94 |
| LCS 460-996725/3 | Lab Control Sample | 96 | 98 | 91 | 98 |
| LCSD 460-996185/5 | Lab Control Sample Dup | 99 | 103 | 97 | 94 |
| MB 460-996185/9 | Method Blank | 105 | 112 | 97 | 87 |
| MB 460-996725/9 | Method Blank | 92 | 96 | 87 | 96 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL | TPHL |
| Lab Sample ID | Client Sample ID | (37-150) | (46-139) | (16-80) | (51-145) | (10-56) | (13-159) |
| 460-311357-1 | RXMW-1 | 86 | 90 | 47 | 88 | 32 | 45 |
| 460-311357-2 | RXMW-5 | 85 | 86 | 44 | 84 | 30 | 39 |
| 460-311357-2 MS | RXMW-5 | 99 | 90 | 45 | 84 | 30 | 86 |
| 460-311357-2 MSD | RXMW-5 | 104 | 93 | 51 | 88 | 34 | 90 |
| LCS 460-995862/2-A | Lab Control Sample | 101 | 86 | 58 | 86 | 44 | 79 |
| LCSD 460-995862/3-A | Lab Control Sample Dup | 96 | 83 | 59 | 87 | 44 | 79 |
| MB 460-995862/1-A | Method Blank | 84 | 86 | 50 | 84 | 35 | 89 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

## Method: 8081B - Organochlorine Pesticides (GC)

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | TCX1 | TCX2 | DCBP1 | DCBP2 |
| Lab Sample ID | Client Sample ID | (34-120) | (34-120) | (30-131) | (30-131) |
| 460-311357-1 | RXMW-1 | 142 * | 135 * | 152 * | 137 * |
| 460-311357-2 | RXMW-5 | 105 | 106 | 119 | 113 |
| 460-311357-2 MS | RXMW-5 | 160 * | 139 * | 163 * | 150 * |
| 460-311357-2 MSD | RXMW-5 | 156 * | 132 * | 155 * | 143 * |
| LCS 460-995875/2-A | Lab Control Sample | 98 | 81 | 89 | 81 |
| LCSD 460-995875/3-A | Lab Control Sample Dup | 107 | 88 | 95 | 87 |

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | TCX1 | TCX2 | DCBP1 | DCBP2 |
| Lab Sample ID | Client Sample ID | (34-120) | (34-120) | (30-131) | (30-131) |
| MB 460-995872/1-B | Method Blank | 143 * | 124 * | 157 * | 128 |
| MB 460-995875/1-A | Method Blank | 95 | 92 | 99 | 91 |

**Surrogate Legend**

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCBP1 | DCBP2 | TCX1 | TCX2 |
| Lab Sample ID | Client Sample ID | (18-145) | (18-145) | (21-124) | (21-124) |
| 460-311357-1 | RXMW-1 | 87 | 100 | 82 | 88 |
| 460-311357-2 | RXMW-5 | 74 | 83 | 67 | 68 |
| 460-311357-2 MS | RXMW-5 | 99 | 118 | 95 | 101 |
| 460-311357-2 MSD | RXMW-5 | 89 | 105 | 87 | 89 |
| LCS 460-995877/2-A | Lab Control Sample | 106 | 123 | 106 | 107 |
| LCSD 460-995877/3-A | Lab Control Sample Dup | 103 | 116 | 103 | 106 |
| MB 460-995877/1-A | Method Blank | 101 | 114 | 99 | 104 |

**Surrogate Legend**

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

# Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-311357-1
Project/Site: 2828 W 28th Street

## Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

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

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | DXE | | | | | | |
| Lab Sample ID | Client Sample ID | (10-150) | | | | | | |
| 460-311357-1 | RXMW-1 | 35 | | | | | | |
| 460-311357-2 | RXMW-5 | 43 | | | | | | |
| 460-311357-2 MS | RXMW-5 | 40 | | | | | | |
| 460-311357-2 MSD | RXMW-5 | 33 | | | | | | |
| LCS 460-996088/2-A | Lab Control Sample | 36 | | | | | | |
| LCSD 460-996088/3-A | Lab Control Sample Dup | 34 | | | | | | |
| MB 460-996088/1-A | Method Blank | 33 | | | | | | |

**Surrogate Legend**

DXE = 1,4-Dioxane-d8

Client: Roux Environmental Eng & Geology DPC
Project/Site: 2828 W 28th Street

Job ID: 460-311357-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 460-996185/9**
**Matrix: Water**
**Analysis Batch: 996185**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.43 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/16/24 22:29 | 1 |
| 1,4-Dioxane | 50 | U | 50 | 28 | ug/L | | | 09/16/24 22:29 | 1 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1.9 | ug/L | | | 09/16/24 22:29 | 1 |
| Acetone | 5.0 | U | 5.0 | 4.4 | ug/L | | | 09/16/24 22:29 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.20 | ug/L | | | 09/16/24 22:29 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/16/24 22:29 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/16/24 22:29 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/16/24 22:29 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/16/24 22:29 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.30 | ug/L | | | 09/16/24 22:29 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/16/24 22:29 | 1 |
| Methylene Chloride | 0.387 | J | 1.0 | 0.32 | ug/L | | | 09/16/24 22:29 | 1 |
| n-Butylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/16/24 22:29 | 1 |
| N-Propylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/16/24 22:29 | 1 |
| sec-Butylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/16/24 22:29 | 1 |
| tert-Butylbenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/16/24 22:29 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.25 | ug/L | | | 09/16/24 22:29 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/16/24 22:29 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/16/24 22:29 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.31 | ug/L | | | 09/16/24 22:29 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.17 | ug/L | | | 09/16/24 22:29 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.65 | ug/L | | | 09/16/24 22:29 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *70 - 128* | | *09/16/24 22:29* | *1* |
| *4-Bromofluorobenzene* | *112* | | *76 - 120* | | *09/16/24 22:29* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *77 - 132* | | *09/16/24 22:29* | *1* |
| *Toluene-d8 (Surr)* | *87* | | *80 - 120* | | *09/16/24 22:29* | *1* |

**Lab Sample ID: LCS 460-996185/4**
**Matrix: Water**
**Analysis Batch: 996185**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 22.8 | | ug/L | | 114 | 72 - 128 |
| 1,1-Dichloroethane | 20.0 | 20.7 | | ug/L | | 103 | 73 - 130 |
| 1,1-Dichloroethene | 20.0 | 22.3 | | ug/L | | 111 | 68 - 133 |
| 1,2,4-Trimethylbenzene | 20.0 | 23.2 | | ug/L | | 116 | 75 - 125 |
| 1,2-Dichlorobenzene | 20.0 | 23.4 | | ug/L | | 117 | 80 - 120 |
| 1,2-Dichloroethane | 20.0 | 22.0 | | ug/L | | 110 | 66 - 129 |

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 460-996185/4**
**Matrix: Water**
**Analysis Batch: 996185**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 20.0 | 22.9 | | ug/L | | 115 | 75 - 125 |
| 1,3-Dichlorobenzene | 20.0 | 23.7 | | ug/L | | 118 | 80 - 120 |
| 1,4-Dichlorobenzene | 20.0 | 23.6 | | ug/L | | 118 | 80 - 120 |
| 1,4-Dioxane | 400 | 453 | | ug/L | | 113 | 42 - 150 |
| 2-Butanone (MEK) | 100 | 110 | | ug/L | | 110 | 65 - 142 |
| Acetone | 100 | 107 | | ug/L | | 107 | 60 - 133 |
| Benzene | 20.0 | 18.9 | | ug/L | | 95 | 71 - 126 |
| Carbon tetrachloride | 20.0 | 24.2 | | ug/L | | 121 | 65 - 131 |
| Chlorobenzene | 20.0 | 21.7 | | ug/L | | 108 | 80 - 120 |
| Chloroform | 20.0 | 21.3 | | ug/L | | 106 | 78 - 125 |
| cis-1,2-Dichloroethene | 20.0 | 21.3 | | ug/L | | 106 | 78 - 121 |
| Ethylbenzene | 20.0 | 21.7 | | ug/L | | 108 | 78 - 120 |
| Methyl tert-butyl ether | 20.0 | 23.2 | | ug/L | | 116 | 72 - 131 |
| Methylene Chloride | 20.0 | 20.9 | | ug/L | | 104 | 74 - 127 |
| m-Xylene & p-Xylene | 20.0 | 21.8 | | ug/L | | 109 | 78 - 120 |
| n-Butylbenzene | 20.0 | 22.9 | | ug/L | | 115 | 69 - 135 |
| N-Propylbenzene | 20.0 | 22.8 | | ug/L | | 114 | 68 - 129 |
| o-Xylene | 20.0 | 23.2 | | ug/L | | 116 | 78 - 120 |
| sec-Butylbenzene | 20.0 | 23.3 | | ug/L | | 117 | 77 - 129 |
| tert-Butylbenzene | 20.0 | 23.6 | | ug/L | | 118 | 78 - 120 |
| Tetrachloroethene | 20.0 | 20.6 | | ug/L | | 103 | 70 - 127 |
| Toluene | 20.0 | 19.7 | | ug/L | | 98 | 78 - 120 |
| trans-1,2-Dichloroethene | 20.0 | 21.5 | | ug/L | | 107 | 70 - 126 |
| Trichloroethene | 20.0 | 21.0 | | ug/L | | 105 | 73 - 121 |
| Vinyl chloride | 20.0 | 22.4 | | ug/L | | 112 | 55 - 144 |
| Xylenes, Total | 40.0 | 45.0 | | ug/L | | 112 | 80 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *70 - 128* |
| *4-Bromofluorobenzene* | *102* | | *76 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *77 - 132* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: LCSD 460-996185/5**
**Matrix: Water**
**Analysis Batch: 996185**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 22.9 | | ug/L | | 114 | 72 - 128 | 0 | 30 |
| 1,1-Dichloroethane | 20.0 | 19.6 | | ug/L | | 98 | 73 - 130 | 5 | 30 |
| 1,1-Dichloroethene | 20.0 | 22.5 | | ug/L | | 112 | 68 - 133 | 1 | 30 |
| 1,2,4-Trimethylbenzene | 20.0 | 23.1 | | ug/L | | 115 | 75 - 125 | 1 | 30 |
| 1,2-Dichlorobenzene | 20.0 | 23.3 | | ug/L | | 116 | 80 - 120 | 0 | 30 |
| 1,2-Dichloroethane | 20.0 | 21.1 | | ug/L | | 105 | 66 - 129 | 5 | 30 |
| 1,3,5-Trimethylbenzene | 20.0 | 22.7 | | ug/L | | 113 | 75 - 125 | 1 | 30 |
| 1,3-Dichlorobenzene | 20.0 | 23.7 | | ug/L | | 118 | 80 - 120 | 0 | 30 |
| 1,4-Dichlorobenzene | 20.0 | 23.4 | | ug/L | | 117 | 80 - 120 | 1 | 30 |
| 1,4-Dioxane | 400 | 495 | | ug/L | | 124 | 42 - 150 | 9 | 30 |

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 460-996185/5**
**Matrix: Water**
**Analysis Batch: 996185**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | 100 | 104 | | ug/L | | 104 | 65 - 142 | 6 | 30 |
| Acetone | 100 | 97.6 | | ug/L | | 98 | 60 - 133 | 9 | 30 |
| Benzene | 20.0 | 17.9 | | ug/L | | 90 | 71 - 126 | 5 | 30 |
| Carbon tetrachloride | 20.0 | 24.0 | | ug/L | | 120 | 65 - 131 | 1 | 30 |
| Chlorobenzene | 20.0 | 21.8 | | ug/L | | 109 | 80 - 120 | 1 | 30 |
| Chloroform | 20.0 | 20.1 | | ug/L | | 100 | 78 - 125 | 6 | 30 |
| cis-1,2-Dichloroethene | 20.0 | 20.5 | | ug/L | | 103 | 78 - 121 | 4 | 30 |
| Ethylbenzene | 20.0 | 22.1 | | ug/L | | 110 | 78 - 120 | 2 | 30 |
| Methyl tert-butyl ether | 20.0 | 22.3 | | ug/L | | 111 | 72 - 131 | 4 | 30 |
| Methylene Chloride | 20.0 | 20.5 | | ug/L | | 103 | 74 - 127 | 2 | 30 |
| m-Xylene & p-Xylene | 20.0 | 22.1 | | ug/L | | 111 | 78 - 120 | 2 | 30 |
| n-Butylbenzene | 20.0 | 23.6 | | ug/L | | 118 | 69 - 135 | 3 | 30 |
| N-Propylbenzene | 20.0 | 22.6 | | ug/L | | 113 | 68 - 129 | 1 | 30 |
| o-Xylene | 20.0 | 22.6 | | ug/L | | 113 | 78 - 120 | 3 | 30 |
| sec-Butylbenzene | 20.0 | 23.9 | | ug/L | | 119 | 77 - 129 | 2 | 30 |
| tert-Butylbenzene | 20.0 | 23.6 | | ug/L | | 118 | 78 - 120 | 0 | 30 |
| Tetrachloroethene | 20.0 | 20.5 | | ug/L | | 102 | 70 - 127 | 0 | 30 |
| Toluene | 20.0 | 19.7 | | ug/L | | 98 | 78 - 120 | 0 | 30 |
| trans-1,2-Dichloroethene | 20.0 | 20.8 | | ug/L | | 104 | 70 - 126 | 3 | 30 |
| Trichloroethene | 20.0 | 20.9 | | ug/L | | 105 | 73 - 121 | 0 | 30 |
| Vinyl chloride | 20.0 | 24.1 | | ug/L | | 120 | 55 - 144 | 7 | 30 |
| Xylenes, Total | 40.0 | 44.7 | | ug/L | | 112 | 80 - 120 | 1 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *70 - 128* |
| *4-Bromofluorobenzene* | *103* | | *76 - 120* |
| *Dibromofluoromethane (Surr)* | *97* | | *77 - 132* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: MB 460-996725/9**
**Matrix: Water**
**Analysis Batch: 996725**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.43 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 10:55 | 1 |
| 1,4-Dioxane | 50 | U | 50 | 28 | ug/L | | | 09/19/24 10:55 | 1 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1.9 | ug/L | | | 09/19/24 10:55 | 1 |
| Acetone | 5.0 | U | 5.0 | 4.4 | ug/L | | | 09/19/24 10:55 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.20 | ug/L | | | 09/19/24 10:55 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.21 | ug/L | | | 09/19/24 10:55 | 1 |

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 460-996725/9**
**Matrix: Water**
**Analysis Batch: 996725**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/19/24 10:55 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.33 | ug/L | | | 09/19/24 10:55 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/19/24 10:55 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.30 | ug/L | | | 09/19/24 10:55 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.22 | ug/L | | | 09/19/24 10:55 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 10:55 | 1 |
| n-Butylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 10:55 | 1 |
| N-Propylbenzene | 1.0 | U | 1.0 | 0.32 | ug/L | | | 09/19/24 10:55 | 1 |
| sec-Butylbenzene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 09/19/24 10:55 | 1 |
| tert-Butylbenzene | 1.0 | U | 1.0 | 0.34 | ug/L | | | 09/19/24 10:55 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.25 | ug/L | | | 09/19/24 10:55 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.38 | ug/L | | | 09/19/24 10:55 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.24 | ug/L | | | 09/19/24 10:55 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.31 | ug/L | | | 09/19/24 10:55 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.17 | ug/L | | | 09/19/24 10:55 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.65 | ug/L | | | 09/19/24 10:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *70 - 128* | | *09/19/24 10:55* | *1* |
| *4-Bromofluorobenzene* | *96* | | *76 - 120* | | *09/19/24 10:55* | *1* |
| *Dibromofluoromethane (Surr)* | *87* | | *77 - 132* | | *09/19/24 10:55* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | | *09/19/24 10:55* | *1* |

**Lab Sample ID: LCS 460-996725/3**
**Matrix: Water**
**Analysis Batch: 996725**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 20.0 | 17.8 | | ug/L | | 89 | 72 - 128 |
| 1,1-Dichloroethane | 20.0 | 18.1 | | ug/L | | 91 | 73 - 130 |
| 1,1-Dichloroethene | 20.0 | 17.5 | | ug/L | | 88 | 68 - 133 |
| 1,2,4-Trimethylbenzene | 20.0 | 19.1 | | ug/L | | 95 | 75 - 125 |
| 1,2-Dichlorobenzene | 20.0 | 19.2 | | ug/L | | 96 | 80 - 120 |
| 1,2-Dichloroethane | 20.0 | 18.5 | | ug/L | | 92 | 66 - 129 |
| 1,3,5-Trimethylbenzene | 20.0 | 18.7 | | ug/L | | 93 | 75 - 125 |
| 1,3-Dichlorobenzene | 20.0 | 19.0 | | ug/L | | 95 | 80 - 120 |
| 1,4-Dichlorobenzene | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| 1,4-Dioxane | 400 | 359 | | ug/L | | 90 | 42 - 150 |
| 2-Butanone (MEK) | 100 | 91.0 | | ug/L | | 91 | 65 - 142 |
| Acetone | 100 | 86.9 | | ug/L | | 87 | 60 - 133 |
| Benzene | 20.0 | 19.0 | | ug/L | | 95 | 71 - 126 |
| Carbon tetrachloride | 20.0 | 16.8 | | ug/L | | 84 | 65 - 131 |
| Chlorobenzene | 20.0 | 18.4 | | ug/L | | 92 | 80 - 120 |
| Chloroform | 20.0 | 17.6 | | ug/L | | 88 | 78 - 125 |
| cis-1,2-Dichloroethene | 20.0 | 17.5 | | ug/L | | 88 | 78 - 121 |
| Ethylbenzene | 20.0 | 18.6 | | ug/L | | 93 | 78 - 120 |
| Methyl tert-butyl ether | 20.0 | 18.5 | | ug/L | | 93 | 72 - 131 |
| Methylene Chloride | 20.0 | 17.5 | | ug/L | | 88 | 74 - 127 |

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 460-996725/3**
**Matrix: Water**
**Analysis Batch: 996725**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| m-Xylene & p-Xylene | 20.0 | 18.2 | | ug/L | | 91 | 78 - 120 |
| n-Butylbenzene | 20.0 | 20.1 | | ug/L | | 101 | 69 - 135 |
| N-Propylbenzene | 20.0 | 19.0 | | ug/L | | 95 | 68 - 129 |
| o-Xylene | 20.0 | 18.5 | | ug/L | | 92 | 78 - 120 |
| sec-Butylbenzene | 20.0 | 19.6 | | ug/L | | 98 | 77 - 129 |
| tert-Butylbenzene | 20.0 | 18.8 | | ug/L | | 94 | 78 - 120 |
| Tetrachloroethene | 20.0 | 17.4 | | ug/L | | 87 | 70 - 127 |
| Toluene | 20.0 | 18.7 | | ug/L | | 93 | 78 - 120 |
| trans-1,2-Dichloroethene | 20.0 | 16.5 | | ug/L | | 82 | 70 - 126 |
| Trichloroethene | 20.0 | 17.8 | | ug/L | | 89 | 73 - 121 |
| Vinyl chloride | 20.0 | 15.8 | | ug/L | | 79 | 55 - 144 |
| Xylenes, Total | 40.0 | 36.7 | | ug/L | | 92 | 80 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *70 - 128* |
| *4-Bromofluorobenzene* | *98* | | *76 - 120* |
| *Dibromofluoromethane (Surr)* | *91* | | *77 - 132* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996725**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 20.0 | 17.4 | | ug/L | | 87 | 72 - 128 |
| 1,1-Dichloroethane | 1.0 | U | 20.0 | 17.4 | | ug/L | | 87 | 73 - 130 |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 17.7 | | ug/L | | 89 | 68 - 133 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 20.0 | 19.3 | | ug/L | | 96 | 75 - 125 |
| 1,2-Dichlorobenzene | 1.0 | U | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| 1,2-Dichloroethane | 1.0 | U | 20.0 | 16.8 | | ug/L | | 84 | 66 - 129 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 20.0 | 18.9 | | ug/L | | 95 | 75 - 125 |
| 1,3-Dichlorobenzene | 1.0 | U | 20.0 | 18.5 | | ug/L | | 92 | 80 - 120 |
| 1,4-Dichlorobenzene | 1.0 | U | 20.0 | 18.6 | | ug/L | | 93 | 80 - 120 |
| 1,4-Dioxane | 50 | U | 400 | 309 | | ug/L | | 77 | 42 - 150 |
| 2-Butanone (MEK) | 5.0 | U | 100 | 85.4 | | ug/L | | 85 | 65 - 142 |
| Acetone | 38 | | 100 | 89.4 | * | ug/L | | 52 | 60 - 133 |
| Benzene | 1.0 | U | 20.0 | 18.9 | | ug/L | | 95 | 71 - 126 |
| Carbon tetrachloride | 1.0 | U | 20.0 | 16.9 | | ug/L | | 85 | 65 - 131 |
| Chlorobenzene | 1.0 | U | 20.0 | 18.2 | | ug/L | | 91 | 80 - 120 |
| Chloroform | 1.0 | U | 20.0 | 16.5 | | ug/L | | 82 | 78 - 125 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 16.2 | | ug/L | | 81 | 78 - 121 |
| Ethylbenzene | 1.0 | U | 20.0 | 18.3 | | ug/L | | 92 | 78 - 120 |
| Methyl tert-butyl ether | 1.0 | U | 20.0 | 17.3 | | ug/L | | 86 | 72 - 131 |
| Methylene Chloride | 0.32 | J | 20.0 | 17.9 | | ug/L | | 90 | 74 - 127 |
| m-Xylene & p-Xylene | 1.0 | U | 20.0 | 17.9 | | ug/L | | 90 | 78 - 120 |
| n-Butylbenzene | 1.0 | U | 20.0 | 20.2 | | ug/L | | 101 | 69 - 135 |
| N-Propylbenzene | 1.0 | U | 20.0 | 19.4 | | ug/L | | 97 | 68 - 129 |
| o-Xylene | 1.0 | U | 20.0 | 18.2 | | ug/L | | 91 | 78 - 120 |

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996725**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 1.0 | U | 20.0 | 20.0 | | ug/L | | 100 | 77 - 129 | | |
| tert-Butylbenzene | 1.0 | U | 20.0 | 19.0 | | ug/L | | 95 | 78 - 120 | | |
| Tetrachloroethene | 1.0 | U | 20.0 | 17.1 | | ug/L | | 85 | 70 - 127 | | |
| Toluene | 1.0 | U | 20.0 | 18.4 | | ug/L | | 92 | 78 - 120 | | |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 14.8 | | ug/L | | 74 | 70 - 126 | | |
| Trichloroethene | 1.0 | U | 20.0 | 18.0 | | ug/L | | 90 | 73 - 121 | | |
| Vinyl chloride | 1.0 | U | 20.0 | 16.7 | | ug/L | | 84 | 55 - 144 | | |
| Xylenes, Total | 2.0 | U | 40.0 | 36.1 | | ug/L | | 90 | 80 - 120 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *86* | | *70 - 128* |
| *4-Bromofluorobenzene* | *95* | | *76 - 120* |
| *Dibromofluoromethane (Surr)* | *85* | | *77 - 132* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* |

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 996725**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.0 | U | 20.0 | 19.0 | | ug/L | | 95 | 72 - 128 | 9 | 30 |
| 1,1-Dichloroethane | 1.0 | U | 20.0 | 19.3 | | ug/L | | 97 | 73 - 130 | 11 | 30 |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 19.1 | | ug/L | | 96 | 68 - 133 | 7 | 30 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 20.0 | 20.4 | | ug/L | | 102 | 75 - 125 | 6 | 30 |
| 1,2-Dichlorobenzene | 1.0 | U | 20.0 | 20.4 | | ug/L | | 102 | 80 - 120 | 9 | 30 |
| 1,2-Dichloroethane | 1.0 | U | 20.0 | 18.4 | | ug/L | | 92 | 66 - 129 | 9 | 30 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 20.0 | 20.1 | | ug/L | | 101 | 75 - 125 | 6 | 30 |
| 1,3-Dichlorobenzene | 1.0 | U | 20.0 | 20.2 | | ug/L | | 101 | 80 - 120 | 9 | 30 |
| 1,4-Dichlorobenzene | 1.0 | U | 20.0 | 19.9 | | ug/L | | 99 | 80 - 120 | 7 | 30 |
| 1,4-Dioxane | 50 | U | 400 | 386 | | ug/L | | 96 | 42 - 150 | 22 | 30 |
| 2-Butanone (MEK) | 5.0 | U | 100 | 94.1 | | ug/L | | 94 | 65 - 142 | 10 | 30 |
| Acetone | 38 | | 100 | 95.9 | * | ug/L | | 58 | 60 - 133 | 7 | 30 |
| Benzene | 1.0 | U | 20.0 | 20.4 | | ug/L | | 102 | 71 - 126 | 7 | 30 |
| Carbon tetrachloride | 1.0 | U | 20.0 | 18.4 | | ug/L | | 92 | 65 - 131 | 8 | 30 |
| Chlorobenzene | 1.0 | U | 20.0 | 19.6 | | ug/L | | 98 | 80 - 120 | 7 | 30 |
| Chloroform | 1.0 | U | 20.0 | 17.9 | | ug/L | | 90 | 78 - 125 | 8 | 30 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.0 | | ug/L | | 90 | 78 - 121 | 11 | 30 |
| Ethylbenzene | 1.0 | U | 20.0 | 20.2 | | ug/L | | 101 | 78 - 120 | 10 | 30 |
| Methyl tert-butyl ether | 1.0 | U | 20.0 | 18.6 | | ug/L | | 93 | 72 - 131 | 8 | 30 |
| Methylene Chloride | 0.32 | J | 20.0 | 18.6 | | ug/L | | 93 | 74 - 127 | 4 | 30 |
| m-Xylene & p-Xylene | 1.0 | U | 20.0 | 19.5 | | ug/L | | 98 | 78 - 120 | 8 | 30 |
| n-Butylbenzene | 1.0 | U | 20.0 | 22.2 | | ug/L | | 111 | 69 - 135 | 9 | 30 |
| N-Propylbenzene | 1.0 | U | 20.0 | 20.7 | | ug/L | | 104 | 68 - 129 | 7 | 30 |
| o-Xylene | 1.0 | U | 20.0 | 19.9 | | ug/L | | 99 | 78 - 120 | 9 | 30 |
| sec-Butylbenzene | 1.0 | U | 20.0 | 21.7 | | ug/L | | 108 | 77 - 129 | 8 | 30 |
| tert-Butylbenzene | 1.0 | U | 20.0 | 20.7 | | ug/L | | 103 | 78 - 120 | 8 | 30 |
| Tetrachloroethene | 1.0 | U | 20.0 | 18.7 | | ug/L | | 94 | 70 - 127 | 9 | 30 |
| Toluene | 1.0 | U | 20.0 | 19.6 | | ug/L | | 98 | 78 - 120 | 6 | 30 |

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 996725**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 16.9 | | ug/L | | 84 | 70 - 126 | 13 | 30 |
| Trichloroethene | 1.0 | U | 20.0 | 19.3 | | ug/L | | 96 | 73 - 121 | 7 | 30 |
| Vinyl chloride | 1.0 | U | 20.0 | 17.6 | | ug/L | | 88 | 55 - 144 | 5 | 30 |
| Xylenes, Total | 2.0 | U | 40.0 | 39.4 | | ug/L | | 98 | 80 - 120 | 9 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *70 - 128* |
| *4-Bromofluorobenzene* | *97* | | *76 - 120* |
| *Dibromofluoromethane (Surr)* | *88* | | *77 - 132* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 460-995862/1-A**
**Matrix: Water**
**Analysis Batch: 995893**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 995862**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 10 | U | 10 | 0.67 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| 3 & 4 Methylphenol | 10 | U | 10 | 0.64 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Acenaphthene | 10 | U | 10 | 1.1 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Acenaphthylene | 10 | U | 10 | 0.82 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Anthracene | 10 | U | 10 | 1.3 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Benzo[a]anthracene | 1.0 | U | 1.0 | 0.59 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Benzo[a]pyrene | 1.0 | U | 1.0 | 0.41 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Benzo[b]fluoranthene | 2.0 | U | 2.0 | 0.68 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Benzo[g,h,i]perylene | 10 | U | 10 | 0.70 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Benzo[k]fluoranthene | 1.0 | U | 1.0 | 0.67 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Chrysene | 2.0 | U | 2.0 | 0.91 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Dibenz(a,h)anthracene | 1.0 | U | 1.0 | 0.72 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Dibenzofuran | 10 | U | 10 | 1.1 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Fluoranthene | 10 | U | 10 | 0.84 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Fluorene | 10 | U | 10 | 0.91 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Hexachlorobenzene | 1.0 | U | 1.0 | 0.40 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Indeno[1,2,3-cd]pyrene | 2.0 | U | 2.0 | 0.94 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Naphthalene | 2.0 | U | 2.0 | 0.54 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Pentachlorophenol | 20 | U | 20 | 1.4 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Phenanthrene | 10 | U | 10 | 1.3 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Phenol | 10 | U | 10 | 0.29 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |
| Pyrene | 10 | U | 10 | 1.6 | ug/L | | 09/14/24 09:53 | 09/14/24 15:17 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *84* | | *37 - 150* | *09/14/24 09:53* | *09/14/24 15:17* | *1* |
| *2-Fluorobiphenyl* | *86* | | *46 - 139* | *09/14/24 09:53* | *09/14/24 15:17* | *1* |
| *2-Fluorophenol (Surr)* | *50* | | *16 - 80* | *09/14/24 09:53* | *09/14/24 15:17* | *1* |
| *Nitrobenzene-d5 (Surr)* | *84* | | *51 - 145* | *09/14/24 09:53* | *09/14/24 15:17* | *1* |
| *Phenol-d5 (Surr)* | *35* | | *10 - 56* | *09/14/24 09:53* | *09/14/24 15:17* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *13 - 159* | *09/14/24 09:53* | *09/14/24 15:17* | *1* |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-995862/2-A**
**Client Sample ID: Lab Control Sample**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 995893**
**Prep Batch: 995862**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | | | 80.0 | 51.0 | | ug/L | | 64 | 35 - 120 | | |
| 3 & 4 Methylphenol | | | 80.0 | 44.7 | | ug/L | | 56 | 27 - 120 | | |
| Acenaphthene | | | 80.0 | 63.6 | | ug/L | | 80 | 62 - 127 | | |
| Acenaphthylene | | | 80.0 | 69.3 | | ug/L | | 87 | 58 - 122 | | |
| Anthracene | | | 80.0 | 65.6 | | ug/L | | 82 | 67 - 127 | | |
| Benzo[a]anthracene | | | 80.0 | 65.3 | | ug/L | | 82 | 71 - 131 | | |
| Benzo[a]pyrene | | | 80.0 | 71.0 | | ug/L | | 89 | 75 - 148 | | |
| Benzo[b]fluoranthene | | | 80.0 | 65.4 | | ug/L | | 82 | 70 - 140 | | |
| Benzo[g,h,i]perylene | | | 80.0 | 77.2 | | ug/L | | 97 | 52 - 143 | | |
| Benzo[k]fluoranthene | | | 80.0 | 67.8 | | ug/L | | 85 | 71 - 140 | | |
| Chrysene | | | 80.0 | 63.3 | | ug/L | | 79 | 70 - 132 | | |
| Dibenz(a,h)anthracene | | | 80.0 | 65.5 | | ug/L | | 82 | 53 - 150 | | |
| Dibenzofuran | | | 80.0 | 63.7 | | ug/L | | 80 | 64 - 125 | | |
| Fluoranthene | | | 80.0 | 68.4 | | ug/L | | 86 | 69 - 137 | | |
| Fluorene | | | 80.0 | 64.9 | | ug/L | | 81 | 67 - 125 | | |
| Hexachlorobenzene | | | 80.0 | 72.5 | | ug/L | | 91 | 62 - 135 | | |
| Indeno[1,2,3-cd]pyrene | | | 80.0 | 72.9 | | ug/L | | 91 | 59 - 150 | | |
| Naphthalene | | | 80.0 | 65.6 | | ug/L | | 82 | 39 - 126 | | |
| Pentachlorophenol | | | 160 | 142 | | ug/L | | 89 | 60 - 140 | | |
| Phenanthrene | | | 80.0 | 63.9 | | ug/L | | 80 | 68 - 126 | | |
| Phenol | | | 80.0 | 33.9 | | ug/L | | 42 | 10 - 80 | | |
| Pyrene | | | 80.0 | 61.9 | | ug/L | | 77 | 60 - 137 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *101* | | *37 - 150* |
| *2-Fluorobiphenyl* | *86* | | *46 - 139* |
| *2-Fluorophenol (Surr)* | *58* | | *16 - 80* |
| *Nitrobenzene-d5 (Surr)* | *86* | | *51 - 145* |
| *Phenol-d5 (Surr)* | *44* | | *10 - 56* |
| *Terphenyl-d14 (Surr)* | *79* | | *13 - 159* |

**Lab Sample ID: LCSD 460-995862/3-A**
**Client Sample ID: Lab Control Sample Dup**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 995893**
**Prep Batch: 995862**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | | | 80.0 | 50.6 | | ug/L | | 63 | 35 - 120 | 1 | 30 |
| 3 & 4 Methylphenol | | | 80.0 | 43.4 | | ug/L | | 54 | 27 - 120 | 3 | 30 |
| Acenaphthene | | | 80.0 | 62.4 | | ug/L | | 78 | 62 - 127 | 2 | 30 |
| Acenaphthylene | | | 80.0 | 68.9 | | ug/L | | 86 | 58 - 122 | 0 | 30 |
| Anthracene | | | 80.0 | 64.9 | | ug/L | | 81 | 67 - 127 | 1 | 30 |
| Benzo[a]anthracene | | | 80.0 | 64.3 | | ug/L | | 80 | 71 - 131 | 2 | 30 |
| Benzo[a]pyrene | | | 80.0 | 70.7 | | ug/L | | 88 | 75 - 148 | 0 | 30 |
| Benzo[b]fluoranthene | | | 80.0 | 67.6 | | ug/L | | 84 | 70 - 140 | 3 | 30 |
| Benzo[g,h,i]perylene | | | 80.0 | 77.4 | | ug/L | | 97 | 52 - 143 | 0 | 30 |
| Benzo[k]fluoranthene | | | 80.0 | 66.3 | | ug/L | | 83 | 71 - 140 | 2 | 30 |
| Chrysene | | | 80.0 | 64.4 | | ug/L | | 80 | 70 - 132 | 2 | 30 |
| Dibenz(a,h)anthracene | | | 80.0 | 65.4 | | ug/L | | 82 | 53 - 150 | 0 | 30 |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 460-995862/3-A**
**Matrix: Water**
**Analysis Batch: 995893**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 995862**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibenzofuran | | | 80.0 | 62.6 | | ug/L | | 78 | 64 - 125 | 2 | 30 |
| Fluoranthene | | | 80.0 | 67.6 | | ug/L | | 84 | 69 - 137 | 1 | 30 |
| Fluorene | | | 80.0 | 63.1 | | ug/L | | 79 | 67 - 125 | 3 | 30 |
| Hexachlorobenzene | | | 80.0 | 70.7 | | ug/L | | 88 | 62 - 135 | 3 | 30 |
| Indeno[1,2,3-cd]pyrene | | | 80.0 | 72.3 | | ug/L | | 90 | 59 - 150 | 1 | 30 |
| Naphthalene | | | 80.0 | 64.9 | | ug/L | | 81 | 39 - 126 | 1 | 30 |
| Pentachlorophenol | | | 160 | 141 | | ug/L | | 88 | 60 - 140 | 1 | 30 |
| Phenanthrene | | | 80.0 | 64.4 | | ug/L | | 80 | 68 - 126 | 1 | 30 |
| Phenol | | | 80.0 | 33.7 | | ug/L | | 42 | 10 - 80 | 1 | 30 |
| Pyrene | | | 80.0 | 61.7 | | ug/L | | 77 | 60 - 137 | 0 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *96* | | *37 - 150* |
| *2-Fluorobiphenyl* | *83* | | *46 - 139* |
| *2-Fluorophenol (Surr)* | *59* | | *16 - 80* |
| *Nitrobenzene-d5 (Surr)* | *87* | | *51 - 145* |
| *Phenol-d5 (Surr)* | *44* | | *10 - 56* |
| *Terphenyl-d14 (Surr)* | *79* | | *13 - 159* |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 995893**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995862**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 10 | U | 40.0 | 27.2 | | ug/L | | 68 | 35 - 120 |
| 3 & 4 Methylphenol | 10 | U | 40.0 | 23.2 | | ug/L | | 58 | 27 - 120 |
| Acenaphthene | 10 | U | 40.0 | 39.9 | | ug/L | | 100 | 62 - 127 |
| Acenaphthylene | 10 | U | 40.0 | 44.3 | | ug/L | | 111 | 58 - 122 |
| Anthracene | 10 | U | 40.0 | 40.9 | | ug/L | | 102 | 67 - 127 |
| Benzo[a]anthracene | 1.0 | U | 40.0 | 42.0 | | ug/L | | 105 | 71 - 131 |
| Benzo[a]pyrene | 1.0 | U | 40.0 | 44.0 | | ug/L | | 110 | 75 - 148 |
| Benzo[b]fluoranthene | 2.0 | U | 40.0 | 41.1 | | ug/L | | 103 | 70 - 140 |
| Benzo[g,h,i]perylene | 10 | U | 40.0 | 49.7 | | ug/L | | 124 | 52 - 143 |
| Benzo[k]fluoranthene | 1.0 | U | 40.0 | 41.6 | | ug/L | | 104 | 71 - 140 |
| Chrysene | 2.0 | U | 40.0 | 40.1 | | ug/L | | 100 | 70 - 132 |
| Dibenz(a,h)anthracene | 1.0 | U | 40.0 | 43.1 | | ug/L | | 108 | 53 - 150 |
| Dibenzofuran | 10 | U | 40.0 | 41.1 | | ug/L | | 103 | 64 - 125 |
| Fluoranthene | 10 | U | 40.0 | 42.4 | | ug/L | | 106 | 69 - 137 |
| Fluorene | 10 | U | 40.0 | 40.6 | | ug/L | | 102 | 67 - 125 |
| Hexachlorobenzene | 1.0 | U | 40.0 | 44.8 | | ug/L | | 112 | 62 - 135 |
| Indeno[1,2,3-cd]pyrene | 2.0 | U | 40.0 | 45.1 | | ug/L | | 113 | 59 - 150 |
| Naphthalene | 2.0 | U | 40.0 | 40.4 | | ug/L | | 101 | 39 - 126 |
| Pentachlorophenol | 20 | U | 80.0 | 86.8 | | ug/L | | 109 | 60 - 140 |
| Phenanthrene | 10 | U | 40.0 | 40.1 | | ug/L | | 100 | 68 - 126 |
| Phenol | 10 | U | 40.0 | 15.4 | | ug/L | | 38 | 10 - 80 |
| Pyrene | 10 | U | 40.0 | 39.9 | | ug/L | | 100 | 60 - 137 |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 995893**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995862**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 99 | | 37 - 150 |
| 2-Fluorobiphenyl | 90 | | 46 - 139 |
| 2-Fluorophenol (Surr) | 45 | | 16 - 80 |
| Nitrobenzene-d5 (Surr) | 84 | | 51 - 145 |
| Phenol-d5 (Surr) | 30 | | 10 - 56 |
| Terphenyl-d14 (Surr) | 86 | | 13 - 159 |

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 995893**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995862**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 10 | U | 40.0 | 31.3 | | ug/L | | 78 | 35 - 120 | 14 | 30 |
| 3 & 4 Methylphenol | 10 | U | 40.0 | 26.5 | | ug/L | | 66 | 27 - 120 | 13 | 30 |
| Acenaphthene | 10 | U | 40.0 | 42.7 | | ug/L | | 107 | 62 - 127 | 7 | 30 |
| Acenaphthylene | 10 | U | 40.0 | 47.8 | | ug/L | | 120 | 58 - 122 | 8 | 30 |
| Anthracene | 10 | U | 40.0 | 44.4 | | ug/L | | 111 | 67 - 127 | 8 | 30 |
| Benzo[a]anthracene | 1.0 | U | 40.0 | 45.4 | | ug/L | | 113 | 71 - 131 | 8 | 30 |
| Benzo[a]pyrene | 1.0 | U | 40.0 | 49.1 | | ug/L | | 123 | 75 - 148 | 11 | 30 |
| Benzo[b]fluoranthene | 2.0 | U | 40.0 | 45.9 | | ug/L | | 115 | 70 - 140 | 11 | 30 |
| Benzo[g,h,i]perylene | 10 | U | 40.0 | 54.7 | | ug/L | | 137 | 52 - 143 | 10 | 30 |
| Benzo[k]fluoranthene | 1.0 | U | 40.0 | 45.2 | | ug/L | | 113 | 71 - 140 | 8 | 30 |
| Chrysene | 2.0 | U | 40.0 | 44.0 | | ug/L | | 110 | 70 - 132 | 9 | 30 |
| Dibenz(a,h)anthracene | 1.0 | U | 40.0 | 47.3 | | ug/L | | 118 | 53 - 150 | 9 | 30 |
| Dibenzofuran | 10 | U | 40.0 | 43.8 | | ug/L | | 109 | 64 - 125 | 6 | 30 |
| Fluoranthene | 10 | U | 40.0 | 46.7 | | ug/L | | 117 | 69 - 137 | 10 | 30 |
| Fluorene | 10 | U | 40.0 | 43.9 | | ug/L | | 110 | 67 - 125 | 8 | 30 |
| Hexachlorobenzene | 1.0 | U | 40.0 | 49.0 | | ug/L | | 123 | 62 - 135 | 9 | 30 |
| Indeno[1,2,3-cd]pyrene | 2.0 | U | 40.0 | 50.4 | | ug/L | | 126 | 59 - 150 | 11 | 30 |
| Naphthalene | 2.0 | U | 40.0 | 45.0 | | ug/L | | 113 | 39 - 126 | 11 | 30 |
| Pentachlorophenol | 20 | U | 80.0 | 92.0 | | ug/L | | 115 | 60 - 140 | 6 | 30 |
| Phenanthrene | 10 | U | 40.0 | 44.3 | | ug/L | | 111 | 68 - 126 | 10 | 30 |
| Phenol | 10 | U | 40.0 | 18.4 | | ug/L | | 46 | 10 - 80 | 18 | 30 |
| Pyrene | 10 | U | 40.0 | 43.7 | | ug/L | | 109 | 60 - 137 | 9 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 104 | | 37 - 150 |
| 2-Fluorobiphenyl | 93 | | 46 - 139 |
| 2-Fluorophenol (Surr) | 51 | | 16 - 80 |
| Nitrobenzene-d5 (Surr) | 88 | | 51 - 145 |
| Phenol-d5 (Surr) | 34 | | 10 - 56 |
| Terphenyl-d14 (Surr) | 90 | | 13 - 159 |

## Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

**Lab Sample ID: MB 460-996088/1-A**
**Matrix: Water**
**Analysis Batch: 996177**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 996088**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.20 | U | 0.20 | 0.072 | ug/L | | 09/16/24 10:11 | 09/16/24 21:56 | 1 |

| *Isotope Dilution* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Dioxane-d8* | *33* | | *10 - 150* | *09/16/24 10:11* | *09/16/24 21:56* | *1* |

**Lab Sample ID: LCS 460-996088/2-A**
**Matrix: Water**
**Analysis Batch: 996177**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 996088**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | | | 1.60 | 1.23 | | ug/L | | 77 | 42 - 142 | | |

| *Isotope Dilution* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Dioxane-d8* | *36* | | *10 - 150* |

**Lab Sample ID: LCSD 460-996088/3-A**
**Matrix: Water**
**Analysis Batch: 996177**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 996088**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | | | 1.60 | 1.23 | | ug/L | | 77 | 42 - 142 | 0 | 20 |

| *Isotope Dilution* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Dioxane-d8* | *34* | | *10 - 150* |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996177**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 996088**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.20 | U | 1.60 | 1.11 | | ug/L | | 70 | 42 - 142 | | |

| *Isotope Dilution* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Dioxane-d8* | *40* | | *10 - 150* |

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 996177**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 996088**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.20 | U | 1.60 | 1.52 | * | ug/L | | 95 | 42 - 142 | 31 | 20 |

| *Isotope Dilution* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Dioxane-d8* | *33* | | *10 - 150* |

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 460-995872/1-B**
**Matrix: Water**
**Analysis Batch: 996147**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 995875**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Aldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| alpha-BHC | 0.020 | U | 0.020 | 0.0070 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| alpha-BHC | 0.020 | U | 0.020 | 0.0070 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| beta-BHC | 0.020 | U | 0.020 | 0.015 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| beta-BHC | 0.020 | U | 0.020 | 0.015 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| delta-BHC | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| delta-BHC | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| gamma-BHC (Lindane) | 0.020 | U | 0.020 | 0.012 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| gamma-BHC (Lindane) | 0.020 | U | 0.020 | 0.012 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Chlordane (technical) | 0.50 | U | 0.50 | 0.055 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Chlordane (technical) | 0.50 | U | 0.50 | 0.055 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| 4,4'-DDD | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| 4,4'-DDD | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| 4,4'-DDE | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| 4,4'-DDE | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| 4,4'-DDT | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| 4,4'-DDT | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Dieldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Dieldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endosulfan I | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endosulfan I | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endosulfan II | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endosulfan II | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endosulfan sulfate | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endosulfan sulfate | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endrin | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endrin | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endrin aldehyde | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endrin aldehyde | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endrin ketone | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Endrin ketone | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Heptachlor | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Heptachlor | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Heptachlor epoxide | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Heptachlor epoxide | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Methoxychlor | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Methoxychlor | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Toxaphene | 0.50 | U | 0.50 | 0.11 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| Toxaphene | 0.50 | U | 0.50 | 0.11 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| cis-Chlordane | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |
| cis-Chlordane | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:29 | 09/16/24 20:29 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *124* | * | *34 - 120* | *09/14/24 11:29* | *09/16/24 20:29* | *1* |
| *Tetrachloro-m-xylene* | *143* | * | *34 - 120* | *09/14/24 11:29* | *09/16/24 20:29* | *1* |
| *DCB Decachlorobiphenyl* | *128* | | *30 - 131* | *09/14/24 11:29* | *09/16/24 20:29* | *1* |
| *DCB Decachlorobiphenyl* | *157* | * | *30 - 131* | *09/14/24 11:29* | *09/16/24 20:29* | *1* |

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 460-995875/1-A**
**Matrix: Water**
**Analysis Batch: 996147**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 995875**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Aldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| alpha-BHC | 0.020 | U | 0.020 | 0.0070 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| alpha-BHC | 0.020 | U | 0.020 | 0.0070 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| beta-BHC | 0.020 | U | 0.020 | 0.015 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| beta-BHC | 0.020 | U | 0.020 | 0.015 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| delta-BHC | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| delta-BHC | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| gamma-BHC (Lindane) | 0.020 | U | 0.020 | 0.012 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| gamma-BHC (Lindane) | 0.020 | U | 0.020 | 0.012 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Chlordane (technical) | 0.50 | U | 0.50 | 0.055 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Chlordane (technical) | 0.50 | U | 0.50 | 0.055 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| 4,4'-DDD | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| 4,4'-DDD | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| 4,4'-DDE | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| 4,4'-DDE | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| 4,4'-DDT | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| 4,4'-DDT | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Dieldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Dieldrin | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endosulfan I | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endosulfan I | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endosulfan II | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endosulfan II | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endosulfan sulfate | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endosulfan sulfate | 0.020 | U | 0.020 | 0.0060 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endrin | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endrin | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endrin aldehyde | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endrin aldehyde | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endrin ketone | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Endrin ketone | 0.020 | U | 0.020 | 0.0080 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Heptachlor | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Heptachlor | 0.020 | U | 0.020 | 0.0030 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Heptachlor epoxide | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Heptachlor epoxide | 0.020 | U | 0.020 | 0.0050 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Methoxychlor | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Methoxychlor | 0.020 | U | 0.020 | 0.0040 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Toxaphene | 0.50 | U | 0.50 | 0.11 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| Toxaphene | 0.50 | U | 0.50 | 0.11 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| cis-Chlordane | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |
| cis-Chlordane | 0.020 | U | 0.020 | 0.0020 | ug/L | | 09/14/24 11:28 | 09/16/24 19:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *92* | | *34 - 120* | *09/14/24 11:28* | *09/16/24 19:52* | *1* |
| *Tetrachloro-m-xylene* | *95* | | *34 - 120* | *09/14/24 11:28* | *09/16/24 19:52* | *1* |
| *DCB Decachlorobiphenyl* | *91* | | *30 - 131* | *09/14/24 11:28* | *09/16/24 19:52* | *1* |
| *DCB Decachlorobiphenyl* | *99* | | *30 - 131* | *09/14/24 11:28* | *09/16/24 19:52* | *1* |

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: LCS 460-995875/2-A**
**Matrix: Water**
**Analysis Batch: 996147**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 995875**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Aldrin | 0.800 | 0.829 | | ug/L | | 104 | 67 - 129 |
| Aldrin | 0.800 | 0.920 | | ug/L | | 115 | 67 - 129 |
| alpha-BHC | 0.800 | 0.769 | | ug/L | | 96 | 70 - 125 |
| alpha-BHC | 0.800 | 0.796 | | ug/L | | 100 | 70 - 125 |
| beta-BHC | 0.800 | 0.721 | | ug/L | | 90 | 70 - 129 |
| beta-BHC | 0.800 | 0.807 | | ug/L | | 101 | 70 - 129 |
| delta-BHC | 0.800 | 0.606 | | ug/L | | 76 | 44 - 120 |
| delta-BHC | 0.800 | 0.637 | | ug/L | | 80 | 44 - 120 |
| gamma-BHC (Lindane) | 0.800 | 0.813 | | ug/L | | 102 | 73 - 132 |
| gamma-BHC (Lindane) | 0.800 | 0.855 | | ug/L | | 107 | 73 - 132 |
| 4,4'-DDD | 0.800 | 0.737 | | ug/L | | 92 | 69 - 138 |
| 4,4'-DDD | 0.800 | 0.820 | | ug/L | | 102 | 69 - 138 |
| 4,4'-DDE | 0.800 | 0.834 | | ug/L | | 104 | 68 - 130 |
| 4,4'-DDE | 0.800 | 0.874 | | ug/L | | 109 | 68 - 130 |
| 4,4'-DDT | 0.800 | 0.796 | | ug/L | | 100 | 57 - 1505 |
| 4,4'-DDT | 0.800 | 0.890 | | ug/L | | 111 | 57 - 1505 |
| Dieldrin | 0.800 | 0.799 | | ug/L | | 100 | 72 - 128 |
| Dieldrin | 0.800 | 0.888 | | ug/L | | 111 | 72 - 128 |
| Endosulfan I | 0.800 | 0.776 | | ug/L | | 97 | 73 - 127 |
| Endosulfan I | 0.800 | 0.943 | | ug/L | | 118 | 73 - 127 |
| Endosulfan II | 0.800 | 0.795 | | ug/L | | 99 | 73 - 134 |
| Endosulfan II | 0.800 | 0.921 | | ug/L | | 115 | 73 - 134 |
| Endosulfan sulfate | 0.800 | 0.682 | | ug/L | | 85 | 61 - 128 |
| Endosulfan sulfate | 0.800 | 0.735 | | ug/L | | 92 | 61 - 128 |
| Endrin | 0.800 | 0.791 | | ug/L | | 99 | 64 - 138 |
| Endrin | 0.800 | 0.892 | | ug/L | | 111 | 64 - 138 |
| Endrin aldehyde | 0.800 | 0.785 | | ug/L | | 98 | 74 - 133 |
| Endrin aldehyde | 0.800 | 0.858 | | ug/L | | 107 | 74 - 133 |
| Endrin ketone | 0.800 | 0.709 | | ug/L | | 89 | 56 - 150 |
| Endrin ketone | 0.800 | 0.787 | | ug/L | | 98 | 56 - 150 |
| Heptachlor | 0.800 | 0.810 | | ug/L | | 101 | 70 - 134 |
| Heptachlor | 0.800 | 0.902 | | ug/L | | 113 | 70 - 134 |
| Heptachlor epoxide | 0.800 | 0.811 | | ug/L | | 101 | 75 - 126 |
| Heptachlor epoxide | 0.800 | 0.896 | | ug/L | | 112 | 75 - 126 |
| Methoxychlor | 0.800 | 0.775 | | ug/L | | 97 | 49 - 150 |
| Methoxychlor | 0.800 | 0.807 | | ug/L | | 101 | 49 - 150 |
| cis-Chlordane | 0.800 | 0.796 | | ug/L | | 100 | 72 - 126 |
| cis-Chlordane | 0.800 | 0.884 | | ug/L | | 110 | 72 - 126 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *81* | | *34 - 120* |
| *Tetrachloro-m-xylene* | *98* | | *34 - 120* |
| *DCB Decachlorobiphenyl* | *81* | | *30 - 131* |
| *DCB Decachlorobiphenyl* | *89* | | *30 - 131* |

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCSD 460-995875/3-A**
**Matrix: Water**
**Analysis Batch: 996147**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 995875**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | | | 0.800 | 0.906 | | ug/L | | 113 | 67 - 129 | 9 | 30 |
| Aldrin | | | 0.800 | 1.01 | | ug/L | | 126 | 67 - 129 | 9 | 30 |
| alpha-BHC | | | 0.800 | 0.842 | | ug/L | | 105 | 70 - 125 | 9 | 30 |
| alpha-BHC | | | 0.800 | 0.870 | | ug/L | | 109 | 70 - 125 | 9 | 30 |
| beta-BHC | | | 0.800 | 0.809 | | ug/L | | 101 | 70 - 129 | 11 | 30 |
| beta-BHC | | | 0.800 | 0.906 | | ug/L | | 113 | 70 - 129 | 12 | 30 |
| delta-BHC | | | 0.800 | 0.675 | | ug/L | | 84 | 44 - 120 | 11 | 30 |
| delta-BHC | | | 0.800 | 0.713 | | ug/L | | 89 | 44 - 120 | 11 | 30 |
| gamma-BHC (Lindane) | | | 0.800 | 0.895 | | ug/L | | 112 | 73 - 132 | 10 | 30 |
| gamma-BHC (Lindane) | | | 0.800 | 0.940 | | ug/L | | 118 | 73 - 132 | 10 | 30 |
| 4,4'-DDD | | | 0.800 | 0.817 | | ug/L | | 102 | 69 - 138 | 10 | 30 |
| 4,4'-DDD | | | 0.800 | 0.912 | | ug/L | | 114 | 69 - 138 | 11 | 30 |
| 4,4'-DDE | | | 0.800 | 0.915 | | ug/L | | 114 | 68 - 130 | 9 | 30 |
| 4,4'-DDE | | | 0.800 | 0.974 | | ug/L | | 122 | 68 - 130 | 11 | 30 |
| 4,4'-DDT | | | 0.800 | 0.874 | | ug/L | | 109 | 57 - 1505 | 9 | 30 |
| 4,4'-DDT | | | 0.800 | 0.980 | | ug/L | | 122 | 57 - 1505 | 10 | 30 |
| Dieldrin | | | 0.800 | 0.877 | | ug/L | | 110 | 72 - 128 | 9 | 30 |
| Dieldrin | | | 0.800 | 0.983 | | ug/L | | 123 | 72 - 128 | 10 | 30 |
| Endosulfan I | | | 0.800 | 0.845 | | ug/L | | 106 | 73 - 127 | 9 | 30 |
| Endosulfan I | | | 0.800 | 1.04 | * | ug/L | | 130 | 73 - 127 | 10 | 30 |
| Endosulfan II | | | 0.800 | 0.880 | | ug/L | | 110 | 73 - 134 | 10 | 30 |
| Endosulfan II | | | 0.800 | 1.02 | | ug/L | | 127 | 73 - 134 | 10 | 30 |
| Endosulfan sulfate | | | 0.800 | 0.753 | | ug/L | | 94 | 61 - 128 | 10 | 30 |
| Endosulfan sulfate | | | 0.800 | 0.814 | | ug/L | | 102 | 61 - 128 | 10 | 30 |
| Endrin | | | 0.800 | 0.866 | | ug/L | | 108 | 64 - 138 | 9 | 30 |
| Endrin | | | 0.800 | 0.983 | | ug/L | | 123 | 64 - 138 | 10 | 30 |
| Endrin aldehyde | | | 0.800 | 0.873 | | ug/L | | 109 | 74 - 133 | 11 | 30 |
| Endrin aldehyde | | | 0.800 | 0.960 | | ug/L | | 120 | 74 - 133 | 11 | 30 |
| Endrin ketone | | | 0.800 | 0.775 | | ug/L | | 97 | 56 - 150 | 9 | 30 |
| Endrin ketone | | | 0.800 | 0.860 | | ug/L | | 108 | 56 - 150 | 9 | 30 |
| Heptachlor | | | 0.800 | 0.888 | | ug/L | | 111 | 70 - 134 | 9 | 30 |
| Heptachlor | | | 0.800 | 0.990 | | ug/L | | 124 | 70 - 134 | 9 | 30 |
| Heptachlor epoxide | | | 0.800 | 0.889 | | ug/L | | 111 | 75 - 126 | 9 | 30 |
| Heptachlor epoxide | | | 0.800 | 0.990 | | ug/L | | 124 | 75 - 126 | 10 | 30 |
| Methoxychlor | | | 0.800 | 0.855 | | ug/L | | 107 | 49 - 150 | 10 | 30 |
| Methoxychlor | | | 0.800 | 0.888 | | ug/L | | 111 | 49 - 150 | 10 | 30 |
| cis-Chlordane | | | 0.800 | 0.868 | | ug/L | | 109 | 72 - 126 | 9 | 30 |
| cis-Chlordane | | | 0.800 | 0.979 | | ug/L | | 122 | 72 - 126 | 10 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *88* | | *34 - 120* |
| *Tetrachloro-m-xylene* | *107* | | *34 - 120* |
| *DCB Decachlorobiphenyl* | *87* | | *30 - 131* |
| *DCB Decachlorobiphenyl* | *95* | | *30 - 131* |

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996147**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995875**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.020 | U | 0.800 | 1.27 | * | ug/L | | 159 | 67 - 129 |
| Aldrin | 0.020 | U | 0.800 | 1.38 | * | ug/L | | 172 | 67 - 129 |
| alpha-BHC | 0.020 | U | 0.800 | 1.25 | * | ug/L | | 156 | 70 - 125 |
| alpha-BHC | 0.020 | U | 0.800 | 1.28 | * | ug/L | | 160 | 70 - 125 |
| beta-BHC | 0.020 | U | 0.800 | 1.21 | * | ug/L | | 152 | 70 - 129 |
| beta-BHC | 0.020 | U | 0.800 | 1.31 | * | ug/L | | 164 | 70 - 129 |
| delta-BHC | 0.020 | U | 0.800 | 1.03 | * | ug/L | | 129 | 44 - 120 |
| delta-BHC | 0.020 | U | 0.800 | 1.10 | * | ug/L | | 137 | 44 - 120 |
| gamma-BHC (Lindane) | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 73 - 132 |
| gamma-BHC (Lindane) | 0.020 | U | 0.800 | 1.35 | * | ug/L | | 169 | 73 - 132 |
| 4,4'-DDD | 0.020 | U | 0.800 | 1.26 | * | ug/L | | 158 | 69 - 138 |
| 4,4'-DDD | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 69 - 138 |
| 4,4'-DDE | 0.020 | U | 0.800 | 1.38 | * | ug/L | | 173 | 68 - 130 |
| 4,4'-DDE | 0.020 | U | 0.800 | 1.39 | * | ug/L | | 173 | 68 - 130 |
| 4,4'-DDT | 0.020 | U | 0.800 | 1.37 | * | ug/L | | 171 | 57 - 150 |
| 4,4'-DDT | 0.020 | U | 0.800 | 1.46 | * | ug/L | | 183 | 57 - 150 |
| Dieldrin | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 72 - 128 |
| Dieldrin | 0.020 | U | 0.800 | 1.39 | * | ug/L | | 173 | 72 - 128 |
| Endosulfan I | 0.020 | U * | 0.800 | 1.28 | * | ug/L | | 161 | 73 - 127 |
| Endosulfan I | 0.020 | U * | 0.800 | 1.46 | * | ug/L | | 183 | 73 - 127 |
| Endosulfan II | 0.020 | U | 0.800 | 1.34 | * | ug/L | | 168 | 73 - 134 |
| Endosulfan II | 0.020 | U | 0.800 | 1.48 | * | ug/L | | 186 | 73 - 134 |
| Endosulfan sulfate | 0.020 | U | 0.800 | 1.17 | * | ug/L | | 146 | 61 - 128 |
| Endosulfan sulfate | 0.020 | U | 0.800 | 1.24 | * | ug/L | | 155 | 61 - 128 |
| Endrin | 0.020 | U | 0.800 | 1.33 | * | ug/L | | 166 | 64 - 138 |
| Endrin | 0.020 | U | 0.800 | 1.41 | * | ug/L | | 177 | 64 - 138 |
| Endrin aldehyde | 0.020 | U | 0.800 | 1.24 | * | ug/L | | 155 | 74 - 133 |
| Endrin aldehyde | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 74 - 133 |
| Endrin ketone | 0.020 | U | 0.800 | 1.23 | * | ug/L | | 154 | 56 - 150 |
| Endrin ketone | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 56 - 150 |
| Heptachlor | 0.020 | U | 0.800 | 1.31 | * | ug/L | | 164 | 70 - 134 |
| Heptachlor | 0.020 | U | 0.800 | 1.42 | * | ug/L | | 177 | 70 - 134 |
| Heptachlor epoxide | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 75 - 126 |
| Heptachlor epoxide | 0.020 | U | 0.800 | 1.43 | * | ug/L | | 178 | 75 - 126 |
| Methoxychlor | 0.020 | U | 0.800 | 1.35 | * | ug/L | | 169 | 49 - 150 |
| Methoxychlor | 0.020 | U | 0.800 | 1.42 | * | ug/L | | 178 | 49 - 150 |
| cis-Chlordane | 0.020 | U | 0.800 | 1.30 | * | ug/L | | 163 | 72 - 126 |
| cis-Chlordane | 0.020 | U | 0.800 | 1.39 | * | ug/L | | 173 | 72 - 126 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *139* | * | *34 - 120* |
| *Tetrachloro-m-xylene* | *160* | * | *34 - 120* |
| *DCB Decachlorobiphenyl* | *150* | * | *30 - 131* |
| *DCB Decachlorobiphenyl* | *163* | * | *30 - 131* |

## Method: 8081B - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 996147**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995875**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.020 | U | 0.800 | 1.24 | * | ug/L | | 156 | 67 - 129 | 2 | 30 |
| Aldrin | 0.020 | U | 0.800 | 1.34 | * | ug/L | | 168 | 67 - 129 | 3 | 30 |
| alpha-BHC | 0.020 | U | 0.800 | 1.22 | * | ug/L | | 152 | 70 - 125 | 2 | 30 |
| alpha-BHC | 0.020 | U | 0.800 | 1.23 | * | ug/L | | 153 | 70 - 125 | 4 | 30 |
| beta-BHC | 0.020 | U | 0.800 | 1.19 | * | ug/L | | 148 | 70 - 129 | 2 | 30 |
| beta-BHC | 0.020 | U | 0.800 | 1.31 | * | ug/L | | 164 | 70 - 129 | 0 | 30 |
| delta-BHC | 0.020 | U | 0.800 | 1.00 | * | ug/L | | 125 | 44 - 120 | 3 | 30 |
| delta-BHC | 0.020 | U | 0.800 | 1.07 | * | ug/L | | 133 | 44 - 120 | 3 | 30 |
| gamma-BHC (Lindane) | 0.020 | U | 0.800 | 1.28 | * | ug/L | | 161 | 73 - 132 | 3 | 30 |
| gamma-BHC (Lindane) | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 73 - 132 | 2 | 30 |
| 4,4'-DDD | 0.020 | U | 0.800 | 1.23 | * | ug/L | | 154 | 69 - 138 | 2 | 30 |
| 4,4'-DDD | 0.020 | U | 0.800 | 1.29 | * | ug/L | | 161 | 69 - 138 | 3 | 30 |
| 4,4'-DDE | 0.020 | U | 0.800 | 1.35 | * | ug/L | | 169 | 68 - 130 | 2 | 30 |
| 4,4'-DDE | 0.020 | U | 0.800 | 1.34 | * | ug/L | | 168 | 68 - 130 | 3 | 30 |
| 4,4'-DDT | 0.020 | U | 0.800 | 1.34 | * | ug/L | | 168 | 57 - 150 | 2 | 30 |
| 4,4'-DDT | 0.020 | U | 0.800 | 1.43 | * | ug/L | | 178 | 57 - 150 | 3 | 30 |
| Dieldrin | 0.020 | U | 0.800 | 1.29 | * | ug/L | | 161 | 72 - 128 | 3 | 30 |
| Dieldrin | 0.020 | U | 0.800 | 1.34 | * | ug/L | | 168 | 72 - 128 | 3 | 30 |
| Endosulfan I | 0.020 | U * | 0.800 | 1.28 | * | ug/L | | 160 | 73 - 127 | 0 | 30 |
| Endosulfan I | 0.020 | U * | 0.800 | 1.42 | * | ug/L | | 177 | 73 - 127 | 3 | 30 |
| Endosulfan II | 0.020 | U | 0.800 | 1.31 | * | ug/L | | 164 | 73 - 134 | 2 | 30 |
| Endosulfan II | 0.020 | U | 0.800 | 1.44 | * | ug/L | | 180 | 73 - 134 | 3 | 30 |
| Endosulfan sulfate | 0.020 | U | 0.800 | 1.15 | * | ug/L | | 143 | 61 - 128 | 2 | 30 |
| Endosulfan sulfate | 0.020 | U | 0.800 | 1.20 | * | ug/L | | 150 | 61 - 128 | 3 | 30 |
| Endrin | 0.020 | U | 0.800 | 1.30 | * | ug/L | | 162 | 64 - 138 | 2 | 30 |
| Endrin | 0.020 | U | 0.800 | 1.37 | * | ug/L | | 172 | 64 - 138 | 3 | 30 |
| Endrin aldehyde | 0.020 | U | 0.800 | 1.18 | * | ug/L | | 148 | 74 - 133 | 5 | 30 |
| Endrin aldehyde | 0.020 | U | 0.800 | 1.24 | * | ug/L | | 155 | 74 - 133 | 6 | 30 |
| Endrin ketone | 0.020 | U | 0.800 | 1.21 | * | ug/L | | 152 | 56 - 150 | 2 | 30 |
| Endrin ketone | 0.020 | U | 0.800 | 1.29 | * | ug/L | | 161 | 56 - 150 | 3 | 30 |
| Heptachlor | 0.020 | U | 0.800 | 1.29 | * | ug/L | | 161 | 70 - 134 | 2 | 30 |
| Heptachlor | 0.020 | U | 0.800 | 1.39 | * | ug/L | | 173 | 70 - 134 | 2 | 30 |
| Heptachlor epoxide | 0.020 | U | 0.800 | 1.29 | * | ug/L | | 161 | 75 - 126 | 2 | 30 |
| Heptachlor epoxide | 0.020 | U | 0.800 | 1.38 | * | ug/L | | 173 | 75 - 126 | 3 | 30 |
| Methoxychlor | 0.020 | U | 0.800 | 1.32 | * | ug/L | | 165 | 49 - 150 | 2 | 30 |
| Methoxychlor | 0.020 | U | 0.800 | 1.38 | * | ug/L | | 173 | 49 - 150 | 3 | 30 |
| cis-Chlordane | 0.020 | U | 0.800 | 1.30 | * | ug/L | | 162 | 72 - 126 | 1 | 30 |
| cis-Chlordane | 0.020 | U | 0.800 | 1.34 | * | ug/L | | 168 | 72 - 126 | 3 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *132* | * | *34 - 120* |
| *Tetrachloro-m-xylene* | *156* | * | *34 - 120* |
| *DCB Decachlorobiphenyl* | *143* | * | *30 - 131* |
| *DCB Decachlorobiphenyl* | *155* | * | *30 - 131* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 460-995877/1-A**
**Matrix: Water**
**Analysis Batch: 996037**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 995877**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1016 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1221 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1221 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1232 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1232 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1242 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1242 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1248 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1248 | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1254 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1254 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1260 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1260 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor-1262 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor-1262 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1268 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Aroclor 1268 | 0.40 | U | 0.40 | 0.11 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Polychlorinated biphenyls, Total | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |
| Polychlorinated biphenyls, Total | 0.40 | U | 0.40 | 0.12 | ug/L | | 09/14/24 11:36 | 09/16/24 09:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *114* | | *18 - 145* | *09/14/24 11:36* | *09/16/24 09:21* | *1* |
| *DCB Decachlorobiphenyl* | *101* | | *18 - 145* | *09/14/24 11:36* | *09/16/24 09:21* | *1* |
| *Tetrachloro-m-xylene* | *104* | | *21 - 124* | *09/14/24 11:36* | *09/16/24 09:21* | *1* |
| *Tetrachloro-m-xylene* | *99* | | *21 - 124* | *09/14/24 11:36* | *09/16/24 09:21* | *1* |

**Lab Sample ID: LCS 460-995877/2-A**
**Matrix: Water**
**Analysis Batch: 996037**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 995877**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 4.00 | 4.10 | | ug/L | | 103 | 42 - 120 |
| Aroclor 1016 | 4.00 | 4.28 | | ug/L | | 107 | 42 - 120 |
| Aroclor 1260 | 4.00 | 4.38 | | ug/L | | 110 | 42 - 126 |
| Aroclor 1260 | 4.00 | 4.37 | | ug/L | | 109 | 42 - 126 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *123* | | *18 - 145* |
| *DCB Decachlorobiphenyl* | *106* | | *18 - 145* |
| *Tetrachloro-m-xylene* | *107* | | *21 - 124* |
| *Tetrachloro-m-xylene* | *106* | | *21 - 124* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCSD 460-995877/3-A**
**Matrix: Water**
**Analysis Batch: 996037**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 995877**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | | | 4.00 | 4.07 | | ug/L | | 102 | 42 - 120 | 1 | 30 |
| Aroclor 1016 | | | 4.00 | 4.18 | | ug/L | | 104 | 42 - 120 | 2 | 30 |
| Aroclor 1260 | | | 4.00 | 4.30 | | ug/L | | 108 | 42 - 126 | 2 | 30 |
| Aroclor 1260 | | | 4.00 | 4.30 | | ug/L | | 108 | 42 - 126 | 2 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *116* | | *18 - 145* |
| *DCB Decachlorobiphenyl* | *103* | | *18 - 145* |
| *Tetrachloro-m-xylene* | *106* | | *21 - 124* |
| *Tetrachloro-m-xylene* | *103* | | *21 - 124* |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996037**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995877**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 0.40 | U | 4.00 | 3.78 | | ug/L | | 94 | 42 - 120 |
| Aroclor 1016 | 0.40 | U | 4.00 | 3.47 | | ug/L | | 87 | 42 - 120 |
| Aroclor 1260 | 0.40 | U | 4.00 | 4.09 | | ug/L | | 102 | 42 - 126 |
| Aroclor 1260 | 0.40 | U | 4.00 | 3.63 | | ug/L | | 91 | 42 - 126 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *118* | | *18 - 145* |
| *DCB Decachlorobiphenyl* | *99* | | *18 - 145* |
| *Tetrachloro-m-xylene* | *101* | | *21 - 124* |
| *Tetrachloro-m-xylene* | *95* | | *21 - 124* |

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 996037**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 995877**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 0.40 | U | 4.00 | 3.93 | | ug/L | | 98 | 42 - 120 | 4 | 30 |
| Aroclor 1016 | 0.40 | U | 4.00 | 3.49 | | ug/L | | 87 | 42 - 120 | 0 | 30 |
| Aroclor 1260 | 0.40 | U | 4.00 | 3.96 | | ug/L | | 99 | 42 - 126 | 3 | 30 |
| Aroclor 1260 | 0.40 | U | 4.00 | 3.59 | | ug/L | | 90 | 42 - 126 | 1 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *DCB Decachlorobiphenyl* | *105* | | *18 - 145* |
| *DCB Decachlorobiphenyl* | *89* | | *18 - 145* |
| *Tetrachloro-m-xylene* | *89* | | *21 - 124* |
| *Tetrachloro-m-xylene* | *87* | | *21 - 124* |

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 460-996085/1-A**
**Client Sample ID: Method Blank**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996107**
**Prep Batch: 996085**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | 0.29 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Arsenic | 2.0 | U | 2.0 | 0.89 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Barium | 4.0 | U | 4.0 | 0.91 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Beryllium | 0.80 | U | 0.80 | 0.13 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Cadmium | 2.0 | U | 2.0 | 0.39 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Chromium | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Copper | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Manganese | 8.0 | U | 8.0 | 1.5 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Nickel | 4.0 | U | 4.0 | 0.91 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Lead | 1.2 | U | 1.2 | 0.84 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Selenium | 2.5 | U | 2.5 | 0.59 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |
| Zinc | 16.0 | U | 16.0 | 6.5 | ug/L | | 09/16/24 09:45 | 09/16/24 14:39 | 1 |

**Lab Sample ID: LCS 460-996085/2-A**
**Client Sample ID: Lab Control Sample**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996107**
**Prep Batch: 996085**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Silver | 25.0 | 26.53 | | ug/L | | 106 | 80 - 120 |
| Arsenic | 50.0 | 54.12 | | ug/L | | 108 | 80 - 120 |
| Barium | 50.0 | 54.99 | | ug/L | | 110 | 80 - 120 |
| Beryllium | 25.0 | 25.37 | | ug/L | | 101 | 80 - 120 |
| Cadmium | 25.0 | 27.05 | | ug/L | | 108 | 80 - 120 |
| Chromium | 50.0 | 54.60 | | ug/L | | 109 | 80 - 120 |
| Copper | 50.0 | 56.67 | | ug/L | | 113 | 80 - 120 |
| Manganese | 250 | 264.8 | | ug/L | | 106 | 80 - 120 |
| Nickel | 50.0 | 55.22 | | ug/L | | 110 | 80 - 120 |
| Lead | 25.0 | 26.95 | | ug/L | | 108 | 80 - 120 |
| Selenium | 50.0 | 50.76 | | ug/L | | 102 | 80 - 120 |
| Zinc | 250 | 265.0 | | ug/L | | 106 | 80 - 120 |

**Lab Sample ID: 460-311357-2 MS**
**Client Sample ID: RXMW-5**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996182**
**Prep Batch: 996085**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 25.0 | 25.54 | | ug/L | | 102 | 75 - 125 |
| Arsenic | 3.3 | | 50.0 | 59.36 | | ug/L | | 112 | 75 - 125 |
| Barium | 18.3 | | 50.0 | 71.54 | | ug/L | | 107 | 75 - 125 |
| Beryllium | 0.80 | U | 25.0 | 27.38 | | ug/L | | 110 | 75 - 125 |
| Cadmium | 2.0 | U | 25.0 | 26.39 | | ug/L | | 106 | 75 - 125 |
| Chromium | 4.0 | U | 50.0 | 54.35 | | ug/L | | 109 | 75 - 125 |
| Copper | 4.0 | U | 50.0 | 54.86 | | ug/L | | 110 | 75 - 125 |
| Manganese | 192 | | 250 | 453.5 | | ug/L | | 105 | 75 - 125 |
| Nickel | 1.7 | J | 50.0 | 55.53 | | ug/L | | 108 | 75 - 125 |
| Lead | 2.1 | | 25.0 | 28.85 | | ug/L | | 107 | 75 - 125 |
| Selenium | 0.72 | J | 50.0 | 53.76 | | ug/L | | 106 | 75 - 125 |
| Zinc | 21.2 | | 250 | 283.2 | | ug/L | | 105 | 75 - 125 |

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 460-311357-2 MSD**
**Client Sample ID: RXMW-5**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996182**
**Prep Batch: 996085**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 25.0 | 24.92 | | ug/L | | 100 | 75 - 125 | 2 | 20 |
| Arsenic | 3.3 | | 50.0 | 58.63 | | ug/L | | 111 | 75 - 125 | 1 | 20 |
| Barium | 18.3 | | 50.0 | 68.93 | | ug/L | | 101 | 75 - 125 | 4 | 20 |
| Beryllium | 0.80 | U | 25.0 | 27.62 | | ug/L | | 110 | 75 - 125 | 1 | 20 |
| Cadmium | 2.0 | U | 25.0 | 25.69 | | ug/L | | 103 | 75 - 125 | 3 | 20 |
| Chromium | 4.0 | U | 50.0 | 52.87 | | ug/L | | 106 | 75 - 125 | 3 | 20 |
| Copper | 4.0 | U | 50.0 | 59.64 | | ug/L | | 119 | 75 - 125 | 8 | 20 |
| Manganese | 192 | | 250 | 445.2 | | ug/L | | 101 | 75 - 125 | 2 | 20 |
| Nickel | 1.7 | J | 50.0 | 54.80 | | ug/L | | 106 | 75 - 125 | 1 | 20 |
| Lead | 2.1 | | 25.0 | 28.62 | | ug/L | | 106 | 75 - 125 | 1 | 20 |
| Selenium | 0.72 | J | 50.0 | 52.61 | | ug/L | | 104 | 75 - 125 | 2 | 20 |
| Zinc | 21.2 | | 250 | 278.5 | | ug/L | | 103 | 75 - 125 | 2 | 20 |

**Lab Sample ID: 460-311389-D-3-B DU**
**Client Sample ID: Duplicate**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996107**
**Prep Batch: 996085**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | U | ug/L | | NC | 20 |
| Arsenic | 2.0 | U | 2.0 | U | ug/L | | NC | 20 |
| Barium | 397 | | 397.5 | | ug/L | | 0.2 | 20 |
| Beryllium | 0.80 | U | 0.80 | U | ug/L | | NC | 20 |
| Cadmium | 0.49 | J | 0.615 | J | ug/L | | 23 | 20 |
| Chromium | 4.0 | U | 4.0 | U | ug/L | | NC | 20 |
| Copper | 2.7 | J | 2.61 | J | ug/L | | 3 | 20 |
| Manganese | 1050 | | 1052 | | ug/L | | 0.09 | 20 |
| Nickel | 7.3 | | 7.62 | | ug/L | | 4 | 20 |
| Lead | 1.2 | U | 1.2 | U | ug/L | | NC | 20 |
| Selenium | 2.5 | U | 2.5 | U | ug/L | | NC | 20 |
| Zinc | 16.0 | | 16.06 | | ug/L | | 0.3 | 20 |

**Lab Sample ID: MB 460-997064/1-A**
**Client Sample ID: Method Blank**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 997069**
**Prep Batch: 997064**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | 0.29 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Arsenic | 2.0 | U | 2.0 | 0.89 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Barium | 4.0 | U | 4.0 | 0.91 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Beryllium | 0.80 | U | 0.80 | 0.13 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Cadmium | 2.0 | U | 2.0 | 0.39 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Cobalt | 4.0 | U | 4.0 | 0.71 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Chromium | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Copper | 4.0 | U | 4.0 | 2.5 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Manganese | 8.0 | U | 8.0 | 1.5 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Nickel | 4.0 | U | 4.0 | 0.91 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Lead | 1.2 | U | 1.2 | 0.84 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Antimony | 2.0 | U | 2.0 | 0.76 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Selenium | 2.5 | U | 2.5 | 0.59 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 460-997064/1-A**
**Matrix: Water**
**Analysis Batch: 997069**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 997064**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vanadium | 4.0 | U | 4.0 | 0.68 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Zinc | 16.0 | U | 16.0 | 6.5 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Aluminum | 40.0 | U | 40.0 | 19.5 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Sodium | 500 | U | 500 | 219 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Magnesium | 200 | U | 200 | 46.9 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Potassium | 200 | U | 200 | 112 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Calcium | 500 | U | 500 | 53.6 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Iron | 120 | U | 120 | 58.2 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |
| Thallium | 0.80 | U | 0.80 | 0.21 | ug/L | | 09/20/24 10:45 | 09/20/24 11:57 | 1 |

**Lab Sample ID: LCS 460-997064/2-A**
**Matrix: Water**
**Analysis Batch: 997069**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 997064**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Silver | 25.0 | 25.35 | | ug/L | | 101 | 80 - 120 |
| Arsenic | 50.0 | 52.37 | | ug/L | | 105 | 80 - 120 |
| Barium | 50.0 | 51.31 | | ug/L | | 103 | 80 - 120 |
| Beryllium | 25.0 | 25.25 | | ug/L | | 101 | 80 - 120 |
| Cadmium | 25.0 | 25.84 | | ug/L | | 103 | 80 - 120 |
| Cobalt | 25.0 | 26.20 | | ug/L | | 105 | 80 - 120 |
| Chromium | 50.0 | 51.78 | | ug/L | | 104 | 80 - 120 |
| Copper | 50.0 | 53.67 | | ug/L | | 107 | 80 - 120 |
| Manganese | 250 | 253.6 | | ug/L | | 101 | 80 - 120 |
| Nickel | 50.0 | 53.07 | | ug/L | | 106 | 80 - 120 |
| Lead | 25.0 | 25.78 | | ug/L | | 103 | 80 - 120 |
| Antimony | 25.0 | 24.18 | | ug/L | | 97 | 80 - 120 |
| Selenium | 50.0 | 52.23 | | ug/L | | 104 | 80 - 120 |
| Vanadium | 50.0 | 51.61 | | ug/L | | 103 | 80 - 120 |
| Zinc | 250 | 256.8 | | ug/L | | 103 | 80 - 120 |
| Aluminum | 2500 | 2625 | | ug/L | | 105 | 80 - 120 |
| Sodium | 2500 | 2749 | | ug/L | | 110 | 80 - 120 |
| Magnesium | 2500 | 2641 | | ug/L | | 106 | 80 - 120 |
| Potassium | 2500 | 2700 | | ug/L | | 108 | 80 - 120 |
| Calcium | 2500 | 2607 | | ug/L | | 104 | 80 - 120 |
| Iron | 2500 | 2628 | | ug/L | | 105 | 80 - 120 |
| Thallium | 20.0 | 20.02 | | ug/L | | 100 | 80 - 120 |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 997069**

**Client Sample ID: RXMW-5**
**Prep Type: Dissolved**
**Prep Batch: 997064**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 25.0 | 23.71 | | ug/L | | 95 | 75 - 125 |
| Arsenic | 3.0 | | 50.0 | 52.00 | | ug/L | | 98 | 75 - 125 |
| Barium | 16.1 | | 50.0 | 64.99 | | ug/L | | 98 | 75 - 125 |
| Beryllium | 0.80 | U | 25.0 | 23.94 | | ug/L | | 96 | 75 - 125 |
| Cadmium | 2.0 | U | 25.0 | 23.81 | | ug/L | | 95 | 75 - 125 |
| Cobalt | 4.0 | U | 25.0 | 24.09 | | ug/L | | 96 | 75 - 125 |

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 997069**

**Client Sample ID: RXMW-5**
**Prep Type: Dissolved**
**Prep Batch: 997064**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 4.0 | U | 50.0 | 47.10 | | ug/L | | 94 | 75 - 125 |
| Copper | 4.0 | U | 50.0 | 47.91 | | ug/L | | 96 | 75 - 125 |
| Manganese | 193 | | 250 | 413.1 | | ug/L | | 88 | 75 - 125 |
| Nickel | 1.3 | J | 50.0 | 48.24 | | ug/L | | 94 | 75 - 125 |
| Lead | 1.2 | U | 25.0 | 24.95 | | ug/L | | 100 | 75 - 125 |
| Antimony | 1.2 | J | 25.0 | 17.60 | N | ug/L | | 66 | 75 - 125 |
| Selenium | 0.64 | J | 50.0 | 50.24 | | ug/L | | 99 | 75 - 125 |
| Vanadium | 6.1 | | 50.0 | 55.61 | | ug/L | | 99 | 75 - 125 |
| Zinc | 17.7 | | 250 | 249.9 | | ug/L | | 93 | 75 - 125 |
| Aluminum | 40.0 | U | 2500 | 2451 | | ug/L | | 98 | 75 - 125 |
| Sodium | 218000 | | 2500 | 209100 | 4 | ug/L | | -339 | 75 - 125 |
| Magnesium | 22100 | | 2500 | 23610 | 4 | ug/L | | 61 | 75 - 125 |
| Potassium | 15400 | | 2500 | 16600 | 4 | ug/L | | 48 | 75 - 125 |
| Calcium | 292000 | | 2500 | 283100 | 4 | ug/L | | -370 | 75 - 125 |
| Iron | 2730 | | 2500 | 4970 | | ug/L | | 90 | 75 - 125 |
| Thallium | 0.80 | U | 20.0 | 18.85 | | ug/L | | 94 | 75 - 125 |

**Lab Sample ID: 460-311357-2 MSD**
**Matrix: Water**
**Analysis Batch: 997069**

**Client Sample ID: RXMW-5**
**Prep Type: Dissolved**
**Prep Batch: 997064**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 25.0 | 23.27 | | ug/L | | 93 | 75 - 125 | 2 | 20 |
| Arsenic | 3.0 | | 50.0 | 54.00 | | ug/L | | 102 | 75 - 125 | 4 | 20 |
| Barium | 16.1 | | 50.0 | 67.98 | | ug/L | | 104 | 75 - 125 | 4 | 20 |
| Beryllium | 0.80 | U | 25.0 | 24.39 | | ug/L | | 98 | 75 - 125 | 2 | 20 |
| Cadmium | 2.0 | U | 25.0 | 24.89 | | ug/L | | 100 | 75 - 125 | 4 | 20 |
| Cobalt | 4.0 | U | 25.0 | 24.45 | | ug/L | | 98 | 75 - 125 | 1 | 20 |
| Chromium | 4.0 | U | 50.0 | 48.79 | | ug/L | | 98 | 75 - 125 | 4 | 20 |
| Copper | 4.0 | U | 50.0 | 49.71 | | ug/L | | 99 | 75 - 125 | 4 | 20 |
| Manganese | 193 | | 250 | 433.3 | | ug/L | | 96 | 75 - 125 | 5 | 20 |
| Nickel | 1.3 | J | 50.0 | 49.86 | | ug/L | | 97 | 75 - 125 | 3 | 20 |
| Lead | 1.2 | U | 25.0 | 25.27 | | ug/L | | 101 | 75 - 125 | 1 | 20 |
| Antimony | 1.2 | J | 25.0 | 17.35 | N | ug/L | | 65 | 75 - 125 | 1 | 20 |
| Selenium | 0.64 | J | 50.0 | 50.59 | | ug/L | | 100 | 75 - 125 | 1 | 20 |
| Vanadium | 6.1 | | 50.0 | 56.31 | | ug/L | | 101 | 75 - 125 | 1 | 20 |
| Zinc | 17.7 | | 250 | 261.4 | | ug/L | | 97 | 75 - 125 | 4 | 20 |
| Aluminum | 40.0 | U | 2500 | 2519 | | ug/L | | 101 | 75 - 125 | 3 | 20 |
| Sodium | 218000 | | 2500 | 219100 | 4 | ug/L | | 60 | 75 - 125 | 5 | 20 |
| Magnesium | 22100 | | 2500 | 24610 | 4 | ug/L | | 101 | 75 - 125 | 4 | 20 |
| Potassium | 15400 | | 2500 | 17770 | 4 | ug/L | | 95 | 75 - 125 | 7 | 20 |
| Calcium | 292000 | | 2500 | 290000 | 4 | ug/L | | -93 | 75 - 125 | 2 | 20 |
| Iron | 2730 | | 2500 | 5077 | | ug/L | | 94 | 75 - 125 | 2 | 20 |
| Thallium | 0.80 | U | 20.0 | 19.56 | | ug/L | | 98 | 75 - 125 | 4 | 20 |

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 460-311357-2 DU**
**Matrix: Water**
**Analysis Batch: 997069**

**Client Sample ID: RXMW-5**
**Prep Type: Dissolved**
**Prep Batch: 997064**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Silver | 2.0 | U | 2.0 | U | ug/L | | NC | 20 |
| Arsenic | 3.0 | | 2.89 | | ug/L | | 4 | 20 |
| Barium | 16.1 | | 15.14 | | ug/L | | 6 | 20 |
| Beryllium | 0.80 | U | 0.80 | U | ug/L | | NC | 20 |
| Cadmium | 2.0 | U | 2.0 | U | ug/L | | NC | 20 |
| Cobalt | 4.0 | U | 4.0 | U | ug/L | | NC | 20 |
| Chromium | 4.0 | U | 4.0 | U | ug/L | | NC | 20 |
| Copper | 4.0 | U | 4.0 | U | ug/L | | NC | 20 |
| Manganese | 193 | | 182.7 | | ug/L | | 5 | 20 |
| Nickel | 1.3 | J | 1.13 | J | ug/L | | 15 | 20 |
| Lead | 1.2 | U | 1.2 | U | ug/L | | NC | 20 |
| Antimony | 1.2 | J | 1.29 | J | ug/L | | 8 | 20 |
| Selenium | 0.64 | J | 2.5 | U | ug/L | | NC | 20 |
| Vanadium | 6.1 | | 5.91 | | ug/L | | 2 | 20 |
| Zinc | 17.7 | | 17.48 | | ug/L | | 1 | 20 |
| Aluminum | 40.0 | U | 40.0 | U | ug/L | | NC | 20 |
| Sodium | 218000 | | 208500 | | ug/L | | 4 | 20 |
| Magnesium | 22100 | | 21100 | | ug/L | | 5 | 20 |
| Potassium | 15400 | | 14420 | | ug/L | | 7 | 20 |
| Calcium | 292000 | | 284900 | | ug/L | | 3 | 20 |
| Iron | 2730 | | 2675 | | ug/L | | 2 | 20 |
| Thallium | 0.80 | U | 0.80 | U | ug/L | | NC | 20 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 460-996574/1-A**
**Matrix: Water**
**Analysis Batch: 996636**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 996574**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/18/24 11:50 | 09/18/24 14:09 | 1 |

**Lab Sample ID: LCS 460-996574/2-A**
**Matrix: Water**
**Analysis Batch: 996636**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 996574**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 1.00 | 1.04 | | ug/L | | 104 | 80 - 120 |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996636**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 996574**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | 1.10 | | ug/L | | 110 | 75 - 125 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 460-311357-2 MSD** — **Client Sample ID: RXMW-5**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 996636** — **Prep Batch: 996574**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | 0.999 | | ug/L | | 100 | 75 - 125 | 9 | 20 |

**Lab Sample ID: 460-311357-2 DU** — **Client Sample ID: RXMW-5**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 996636** — **Prep Batch: 996574**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | U | ug/L | | NC | 20 |

**Lab Sample ID: MB 460-997093/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 997146** — **Prep Batch: 997093**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/20/24 14:32 | 09/20/24 15:52 | 1 |

**Lab Sample ID: LCS 460-997093/3-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 997146** — **Prep Batch: 997093**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 1.00 | 0.992 | | ug/L | | 99 | 80 - 120 |

**Lab Sample ID: MB 460-997495/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 997521** — **Prep Batch: 997495**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/23/24 14:43 | 09/23/24 15:16 | 1 |

**Lab Sample ID: LCS 460-997495/3-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 997521** — **Prep Batch: 997495**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 1.00 | 1.02 | | ug/L | | 102 | 80 - 120 |

**Lab Sample ID: 460-311357-2 MS** — **Client Sample ID: RXMW-5**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 997146** — **Prep Batch: 997093**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | 1.02 | | ug/L | | 102 | 75 - 125 |

**Lab Sample ID: 460-311357-2 MSD** — **Client Sample ID: RXMW-5**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 997146** — **Prep Batch: 997093**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | 1.04 | | ug/L | | 104 | 75 - 125 | 2 | 20 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: 460-311357-2 DU**
**Matrix: Water**
**Analysis Batch: 997146**

**Client Sample ID: RXMW-5**
**Prep Type: Dissolved**
**Prep Batch: 997093**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | | 0.20 | U | ug/L | | | | NC | 20 |

**Lab Sample ID: MB 460-997493/1-B**
**Matrix: Water**
**Analysis Batch: 997521**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 997495**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.20 | 0.091 | ug/L | | 09/23/24 14:43 | 09/23/24 15:18 | 1 |

**Lab Sample ID: 460-311619-D-1-W MS**
**Matrix: Water**
**Analysis Batch: 997521**

**Client Sample ID: Matrix Spike**
**Prep Type: Dissolved**
**Prep Batch: 997495**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | 1.03 | | ug/L | | 103 | 75 - 125 | | |

**Lab Sample ID: 460-311619-D-1-X MSD**
**Matrix: Water**
**Analysis Batch: 997521**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Dissolved**
**Prep Batch: 997495**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | 1.03 | | ug/L | | 103 | 75 - 125 | 1 | 20 |

**Lab Sample ID: 460-311619-D-1-V DU**
**Matrix: Water**
**Analysis Batch: 997521**

**Client Sample ID: Duplicate**
**Prep Type: Dissolved**
**Prep Batch: 997495**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | | 0.20 | U | ug/L | | | | NC | 20 |

## Method: 7196A - Chromium, Hexavalent

**Lab Sample ID: MB 460-995817/10**
**Matrix: Water**
**Analysis Batch: 995817**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cr (VI) | 10.0 | U | 10.0 | 8.1 | ug/L | | | 09/13/24 23:45 | 1 |

**Lab Sample ID: LCSSRM 460-995817/11**
**Matrix: Water**
**Analysis Batch: 995817**

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

| Analyte | | | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cr (VI) | | | 77.6 | 77.95 | | ug/L | | 100.5 | 84.1 - 114.4 | | |

## Method: 7196A - Chromium, Hexavalent (Continued)

**Lab Sample ID: MRL 460-995817/9**
**Matrix: Water**
**Analysis Batch: 995817**

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

| Analyte | | | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cr (VI) | | | 10.0 | 10.13 | | ug/L | | 101 | 50 - 150 | | |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 995817**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cr (VI) | 10.0 | U | 30.0 | 27.63 | | ug/L | | 92 | 85 - 115 | | |

**Lab Sample ID: 460-311357-2 DU**
**Matrix: Water**
**Analysis Batch: 995817**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cr (VI) | 10.0 | U | | 10.0 | U | ug/L | | | | NC | 20 |

## Method: 9012B - Cyanide, Total andor Amenable

**Lab Sample ID: MB 460-996659/12-A**
**Matrix: Water**
**Analysis Batch: 996700**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 996659**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.010 | U | 0.010 | 0.0040 | mg/L | | 09/18/24 17:53 | 09/18/24 21:11 | 1 |

**Lab Sample ID: LCS 460-996659/13-A**
**Matrix: Water**
**Analysis Batch: 996700**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 996659**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | | | 0.100 | 0.0985 | | mg/L | | 99 | 85 - 115 | | |

**Lab Sample ID: MRL 460-996659/11-A**
**Matrix: Water**
**Analysis Batch: 996700**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 996659**

| Analyte | | | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | | | 0.0100 | 0.0109 | | mg/L | | 109 | 50 - 150 | | |

**Lab Sample ID: 460-311357-2 MS**
**Matrix: Water**
**Analysis Batch: 996700**

**Client Sample ID: RXMW-5**
**Prep Type: Total/NA**
**Prep Batch: 996659**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.010 | U | 0.200 | 0.198 | | mg/L | | 99 | 90 - 110 | | |

## Method: 9012B - Cyanide, Total andor Amenable (Continued)

**Lab Sample ID: 460-311357-2 MSD**
**Client Sample ID: RXMW-5**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996700**
**Prep Batch: 996659**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.010 | U | 0.200 | 0.209 | | mg/L | | 105 | 90 - 110 | 5 | 35 |

**Lab Sample ID: 460-311162-E-2-B DU**
**Client Sample ID: Duplicate**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 996700**
**Prep Batch: 996659**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | -0.000297 | | | 0.010 | U | mg/L | | | | | |

## GC/MS VOA

### Analysis Batch: 996185

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-3 | TB_09132024 | Total/NA | Water | 8260D | |
| MB 460-996185/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 460-996185/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| LCSD 460-996185/5 | Lab Control Sample Dup | Total/NA | Water | 8260D | |

### Analysis Batch: 996725

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 8260D | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 8260D | |
| MB 460-996725/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 460-996725/3 | Lab Control Sample | Total/NA | Water | 8260D | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 8260D | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 8260D | |

## GC/MS Semi VOA

### Prep Batch: 995862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 3510C | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 3510C | |
| MB 460-995862/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 460-995862/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 460-995862/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 3510C | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 3510C | |

### Analysis Batch: 995893

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 8270E | 995862 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 8270E | 995862 |
| MB 460-995862/1-A | Method Blank | Total/NA | Water | 8270E | 995862 |
| LCS 460-995862/2-A | Lab Control Sample | Total/NA | Water | 8270E | 995862 |
| LCSD 460-995862/3-A | Lab Control Sample Dup | Total/NA | Water | 8270E | 995862 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 8270E | 995862 |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 8270E | 995862 |

### Prep Batch: 996088

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 3510C | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 3510C | |
| MB 460-996088/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 460-996088/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 460-996088/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 3510C | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 3510C | |

### Analysis Batch: 996177

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 8270E SIM ID | 996088 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 8270E SIM ID | 996088 |
| MB 460-996088/1-A | Method Blank | Total/NA | Water | 8270E SIM ID | 996088 |

## GC/MS Semi VOA (Continued)

### Analysis Batch: 996177 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 460-996088/2-A | Lab Control Sample | Total/NA | Water | 8270E SIM ID | 996088 |
| LCSD 460-996088/3-A | Lab Control Sample Dup | Total/NA | Water | 8270E SIM ID | 996088 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 8270E SIM ID | 996088 |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 8270E SIM ID | 996088 |

## GC Semi VOA

### Filtration Batch: 995872

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 460-995872/1-B | Method Blank | Total/NA | Water | FILTRATION | |

### Prep Batch: 995875

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 3510C | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 3510C | |
| MB 460-995872/1-B | Method Blank | Total/NA | Water | 3510C | 995872 |
| MB 460-995875/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 460-995875/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 460-995875/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 3510C | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 3510C | |

### Prep Batch: 995877

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 3510C | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 3510C | |
| MB 460-995877/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 460-995877/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 460-995877/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 3510C | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 3510C | |

### Analysis Batch: 996037

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 8082A | 995877 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 8082A | 995877 |
| MB 460-995877/1-A | Method Blank | Total/NA | Water | 8082A | 995877 |
| LCS 460-995877/2-A | Lab Control Sample | Total/NA | Water | 8082A | 995877 |
| LCSD 460-995877/3-A | Lab Control Sample Dup | Total/NA | Water | 8082A | 995877 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 8082A | 995877 |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 8082A | 995877 |

### Analysis Batch: 996147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 8081B | 995875 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 8081B | 995875 |
| MB 460-995872/1-B | Method Blank | Total/NA | Water | 8081B | 995875 |
| MB 460-995875/1-A | Method Blank | Total/NA | Water | 8081B | 995875 |
| LCS 460-995875/2-A | Lab Control Sample | Total/NA | Water | 8081B | 995875 |
| LCSD 460-995875/3-A | Lab Control Sample Dup | Total/NA | Water | 8081B | 995875 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 8081B | 995875 |

## GC Semi VOA (Continued)

### Analysis Batch: 996147 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 8081B | 995875 |

## Metals

### Prep Batch: 996085

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 3010A | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 3010A | |
| MB 460-996085/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 460-996085/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 3010A | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 3010A | |
| 460-311389-D-3-B DU | Duplicate | Total/NA | Water | 3010A | |

### Analysis Batch: 996107

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 460-996085/1-A | Method Blank | Total/NA | Water | 6020B | 996085 |
| LCS 460-996085/2-A | Lab Control Sample | Total/NA | Water | 6020B | 996085 |
| 460-311389-D-3-B DU | Duplicate | Total/NA | Water | 6020B | 996085 |

### Analysis Batch: 996182

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 6020B | 996085 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 6020B | 996085 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 6020B | 996085 |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 6020B | 996085 |

### Prep Batch: 996574

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 7470A | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 7470A | |
| MB 460-996574/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 460-996574/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 7470A | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 7470A | |
| 460-311357-2 DU | RXMW-5 | Total/NA | Water | 7470A | |

### Analysis Batch: 996636

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 7470A | 996574 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 7470A | 996574 |
| MB 460-996574/1-A | Method Blank | Total/NA | Water | 7470A | 996574 |
| LCS 460-996574/2-A | Lab Control Sample | Total/NA | Water | 7470A | 996574 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 7470A | 996574 |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 7470A | 996574 |
| 460-311357-2 DU | RXMW-5 | Total/NA | Water | 7470A | 996574 |

### Prep Batch: 997064

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Dissolved | Water | 3010A | |
| 460-311357-2 | RXMW-5 | Dissolved | Water | 3010A | |

## Metals (Continued)

### Prep Batch: 997064 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 460-997064/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 460-997064/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 460-311357-2 MS | RXMW-5 | Dissolved | Water | 3010A | |
| 460-311357-2 MSD | RXMW-5 | Dissolved | Water | 3010A | |
| 460-311357-2 DU | RXMW-5 | Dissolved | Water | 3010A | |

### Analysis Batch: 997069

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Dissolved | Water | 6020B | 997064 |
| 460-311357-2 | RXMW-5 | Dissolved | Water | 6020B | 997064 |
| MB 460-997064/1-A | Method Blank | Total/NA | Water | 6020B | 997064 |
| LCS 460-997064/2-A | Lab Control Sample | Total/NA | Water | 6020B | 997064 |
| 460-311357-2 MS | RXMW-5 | Dissolved | Water | 6020B | 997064 |
| 460-311357-2 MSD | RXMW-5 | Dissolved | Water | 6020B | 997064 |
| 460-311357-2 DU | RXMW-5 | Dissolved | Water | 6020B | 997064 |

### Prep Batch: 997093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-2 | RXMW-5 | Dissolved | Water | 7470A | |
| MB 460-997093/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 460-997093/3-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 460-311357-2 MS | RXMW-5 | Dissolved | Water | 7470A | |
| 460-311357-2 MSD | RXMW-5 | Dissolved | Water | 7470A | |
| 460-311357-2 DU | RXMW-5 | Dissolved | Water | 7470A | |

### Analysis Batch: 997146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-2 | RXMW-5 | Dissolved | Water | 7470A | 997093 |
| MB 460-997093/1-A | Method Blank | Total/NA | Water | 7470A | 997093 |
| LCS 460-997093/3-A | Lab Control Sample | Total/NA | Water | 7470A | 997093 |
| 460-311357-2 MS | RXMW-5 | Dissolved | Water | 7470A | 997093 |
| 460-311357-2 MSD | RXMW-5 | Dissolved | Water | 7470A | 997093 |
| 460-311357-2 DU | RXMW-5 | Dissolved | Water | 7470A | 997093 |

### Filtration Batch: 997493

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 460-997493/1-B | Method Blank | Dissolved | Water | FILTRATION | |
| 460-311619-D-1-W MS | Matrix Spike | Dissolved | Water | FILTRATION | |
| 460-311619-D-1-X MSD | Matrix Spike Duplicate | Dissolved | Water | FILTRATION | |
| 460-311619-D-1-V DU | Duplicate | Dissolved | Water | FILTRATION | |

### Prep Batch: 997495

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Dissolved | Water | 7470A | |
| MB 460-997493/1-B | Method Blank | Dissolved | Water | 7470A | 997493 |
| MB 460-997495/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 460-997495/3-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 460-311619-D-1-W MS | Matrix Spike | Dissolved | Water | 7470A | 997493 |
| 460-311619-D-1-X MSD | Matrix Spike Duplicate | Dissolved | Water | 7470A | 997493 |
| 460-311619-D-1-V DU | Duplicate | Dissolved | Water | 7470A | 997493 |

## Metals

### Analysis Batch: 997521

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Dissolved | Water | 7470A | 997495 |
| MB 460-997493/1-B | Method Blank | Dissolved | Water | 7470A | 997495 |
| MB 460-997495/1-A | Method Blank | Total/NA | Water | 7470A | 997495 |
| LCS 460-997495/3-A | Lab Control Sample | Total/NA | Water | 7470A | 997495 |
| 460-311619-D-1-W MS | Matrix Spike | Dissolved | Water | 7470A | 997495 |
| 460-311619-D-1-X MSD | Matrix Spike Duplicate | Dissolved | Water | 7470A | 997495 |
| 460-311619-D-1-V DU | Duplicate | Dissolved | Water | 7470A | 997495 |

## General Chemistry

### Analysis Batch: 995817

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 7196A | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 7196A | |
| MB 460-995817/10 | Method Blank | Total/NA | Water | 7196A | |
| LCSSRM 460-995817/11 | Lab Control Sample | Total/NA | Water | 7196A | |
| MRL 460-995817/9 | Lab Control Sample | Total/NA | Water | 7196A | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 7196A | |
| 460-311357-2 DU | RXMW-5 | Total/NA | Water | 7196A | |

### Analysis Batch: 996337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 7196A | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 7196A | |

### Prep Batch: 996659

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 9012B | |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 9012B | |
| MB 460-996659/12-A | Method Blank | Total/NA | Water | 9012B | |
| LCS 460-996659/13-A | Lab Control Sample | Total/NA | Water | 9012B | |
| MRL 460-996659/11-A | Lab Control Sample | Total/NA | Water | 9012B | |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 9012B | |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 9012B | |
| 460-311162-E-2-B DU | Duplicate | Total/NA | Water | 9012B | |

### Analysis Batch: 996700

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Total/NA | Water | 9012B | 996659 |
| 460-311357-2 | RXMW-5 | Total/NA | Water | 9012B | 996659 |
| MB 460-996659/12-A | Method Blank | Total/NA | Water | 9012B | 996659 |
| LCS 460-996659/13-A | Lab Control Sample | Total/NA | Water | 9012B | 996659 |
| MRL 460-996659/11-A | Lab Control Sample | Total/NA | Water | 9012B | 996659 |
| 460-311357-2 MS | RXMW-5 | Total/NA | Water | 9012B | 996659 |
| 460-311357-2 MSD | RXMW-5 | Total/NA | Water | 9012B | 996659 |
| 460-311162-E-2-B DU | Duplicate | Total/NA | Water | 9012B | 996659 |

# Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: 2828 W 28th Street

Job ID: 460-311357-1

## Client Sample ID: RXMW-1

**Lab Sample ID: 460-311357-1**

**Date Collected: 09/13/24 12:05**
**Date Received: 09/13/24 19:00**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 996725 | CJM | EET EDI | 09/19/24 14:54 |
| Total/NA | Prep | 3510C | | | 995862 | NMP | EET EDI | 09/14/24 09:55 |
| Total/NA | Analysis | 8270E | | 1 | 995893 | YAH | EET EDI | 09/14/24 21:37 |
| Total/NA | Prep | 3510C | | | 996088 | OTS | EET EDI | 09/16/24 10:11 |
| Total/NA | Analysis | 8270E SIM ID | | 1 | 996177 | MME | EET EDI | 09/16/24 22:44 |
| Total/NA | Prep | 3510C | | | 995875 | ZEH | EET EDI | 09/14/24 11:29 |
| Total/NA | Analysis | 8081B | | 1 | 996147 | AAA | EET EDI | 09/17/24 00:23 |
| Total/NA | Prep | 3510C | | | 995877 | ZEH | EET EDI | 09/14/24 11:42 |
| Total/NA | Analysis | 8082A | | 1 | 996037 | AAA | EET EDI | 09/16/24 13:49 |
| Dissolved | Prep | 3010A | | | 997064 | MDC | EET EDI | 09/20/24 10:45 |
| Dissolved | Analysis | 6020B | | 1 | 997069 | MDC | EET EDI | 09/20/24 12:29 |
| Total/NA | Prep | 3010A | | | 996085 | JKF | EET EDI | 09/16/24 09:45 |
| Total/NA | Analysis | 6020B | | 1 | 996182 | VAD | EET EDI | 09/16/24 22:26 |
| Dissolved | Prep | 7470A | | | 997495 | RBS | EET EDI | 09/23/24 14:43 |
| Dissolved | Analysis | 7470A | | 1 | 997521 | RBS | EET EDI | 09/23/24 15:43 |
| Total/NA | Prep | 7470A | | | 996574 | RBS | EET EDI | 09/18/24 11:50 |
| Total/NA | Analysis | 7470A | | 1 | 996636 | RBS | EET EDI | 09/18/24 14:59 |
| Total/NA | Analysis | 7196A | | 1 | 996337 | LBD | EET EDI | 09/17/24 12:50 |
| Total/NA | Analysis | 7196A | | 1 | 995817 | VBG | EET EDI | 09/13/24 23:45 |
| Total/NA | Prep | 9012B | | | 996659 | VBG | EET EDI | 09/18/24 17:53 |
| Total/NA | Analysis | 9012B | | 1 | 996700 | VBG | EET EDI | 09/18/24 21:26 |

## Client Sample ID: RXMW-5

**Lab Sample ID: 460-311357-2**

**Date Collected: 09/13/24 13:30**
**Date Received: 09/13/24 19:00**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 996725 | CJM | EET EDI | 09/19/24 14:32 |
| Total/NA | Prep | 3510C | | | 995862 | NMP | EET EDI | 09/14/24 09:55 |
| Total/NA | Analysis | 8270E | | 1 | 995893 | YAH | EET EDI | 09/14/24 22:18 |
| Total/NA | Prep | 3510C | | | 996088 | OTS | EET EDI | 09/16/24 10:11 |
| Total/NA | Analysis | 8270E SIM ID | | 1 | 996177 | MME | EET EDI | 09/16/24 22:59 |
| Total/NA | Prep | 3510C | | | 995875 | ZEH | EET EDI | 09/14/24 11:29 |
| Total/NA | Analysis | 8081B | | 1 | 996147 | AAA | EET EDI | 09/17/24 01:00 |
| Total/NA | Prep | 3510C | | | 995877 | ZEH | EET EDI | 09/14/24 11:42 |
| Total/NA | Analysis | 8082A | | 1 | 996037 | AAA | EET EDI | 09/16/24 14:56 |
| Dissolved | Prep | 3010A | | | 997064 | MDC | EET EDI | 09/20/24 10:45 |
| Dissolved | Analysis | 6020B | | 1 | 997069 | MDC | EET EDI | 09/20/24 12:19 |
| Total/NA | Prep | 3010A | | | 996085 | JKF | EET EDI | 09/16/24 09:45 |
| Total/NA | Analysis | 6020B | | 1 | 996182 | VAD | EET EDI | 09/16/24 21:51 |
| Dissolved | Prep | 7470A | | | 997093 | RBS | EET EDI | 09/20/24 14:32 |
| Dissolved | Analysis | 7470A | | 1 | 997146 | RBS | EET EDI | 09/20/24 15:57 |
| Total/NA | Prep | 7470A | | | 996574 | RBS | EET EDI | 09/18/24 11:50 |
| Total/NA | Analysis | 7470A | | 1 | 996636 | RBS | EET EDI | 09/18/24 14:12 |

# Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-311357-1
Project/Site: 2828 W 28th Street

## Client Sample ID: RXMW-5
**Lab Sample ID: 460-311357-2**
**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 7196A | | 1 | 996337 | LBD | EET EDI | 09/17/24 12:50 |
| Total/NA | Analysis | 7196A | | 1 | 995817 | VBG | EET EDI | 09/13/24 23:45 |
| Total/NA | Prep | 9012B | | | 996659 | VBG | EET EDI | 09/18/24 17:53 |
| Total/NA | Analysis | 9012B | | 1 | 996700 | VBG | EET EDI | 09/18/24 21:26 |

## Client Sample ID: TB_09132024
**Lab Sample ID: 460-311357-3**
**Date Collected: 09/13/24 13:30**
**Matrix: Water**
**Date Received: 09/13/24 19:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 996185 | KLB | EET EDI | 09/16/24 22:49 |

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-311357-1
Project/Site: 2828 W 28th Street

## Laboratory: Eurofins Edison

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 11452 | 04-01-25 |

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

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 7196A | | Water | Cr (III) |
| 8270E | 3510C | Water | 3 & 4 Methylphenol |

# Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-311357-1
Project/Site: 2828 W 28th Street

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET EDI |
| 8270E | Semivolatile Organic Compounds (GC/MS) | SW846 | EET EDI |
| 8270E SIM ID | Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) | SW846 | EET EDI |
| 8081B | Organochlorine Pesticides (GC) | SW846 | EET EDI |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | EET EDI |
| 6020B | Metals (ICP/MS) | SW846 | EET EDI |
| 7470A | Mercury (CVAA) | SW846 | EET EDI |
| 7196A | Chromium, Hexavalent | SW846 | EET EDI |
| 7196A | Chromium, Trivalent (Colorimetric) | SW846 | EET EDI |
| 9012B | Cyanide, Total andor Amenable | SW846 | EET EDI |
| 3010A | Preparation, Total Metals | SW846 | EET EDI |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | EET EDI |
| 5030C | Purge and Trap | SW846 | EET EDI |
| 7470A | Preparation, Mercury | SW846 | EET EDI |
| 9012B | Cyanide, Total and/or Amenable, Distillation | SW846 | EET EDI |

**Protocol References:**

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

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-311357-1
Project/Site: 2828 W 28th Street

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 460-311357-1 | RXMW-1 | Water | 09/13/24 12:05 | 09/13/24 19:00 |
| 460-311357-2 | RXMW-5 | Water | 09/13/24 13:30 | 09/13/24 19:00 |
| 460-311357-3 | TB_09132024 | Water | 09/13/24 13:30 | 09/13/24 19:00 |

**Eurofins Edison**
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Phone (732) 549-3679

NYC 222

# Chain of Custody Record

eurofins
Environment Testing

| Client Information | Sampler: EMERY LOVELAMP | Lab PM: Flannery Elizabeth J | Carrier Tracking No(s): | COC No: 460-185738-121604.1 |
|---|---|---|---|---|
| Client Contact: Lauren Dolginko | Phone: 704-770-6813 | E-Mail: Elizabeth.Flannery@et.eurofinsus.com | State of Origin: | Page: Page 1 of 1 |
| Company: Roux Environmental Eng & Geology DPC | PWSID: | Analysis Requested | | Job #: 311357 |
| Address: 209 Shafter St | Due Date Requested: STANDARD | | | Preservation Codes: N None; D HNO3; A HCL; B NaOH |
| City: Islandia | TAT Requested (days): Standard | | | |
| State, Zip: NY 11749 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 631-232-2600 | PO #: Purchase Order Requested | | | |
| Email: ldolginko@rouxinc.com | WO #: 2828 W 28th Street | | | |
| Project Name: 2828 W 28th Street | Project #: 46044510 | | | |
| Site: 2828 W 28TH ST | SSOW#: | | | Other: |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8081B Pesticides, 8082A PCBs | 8270E_SIM_MS_ID 1,4-Dioxane (GC/MS SIM / Isotope Dilutio | 8270E Part 375 BNAs | 7196A Hex Chrome, 7196A_CR3- Tri Chrome | 6020B Part 375 Metals, 7470A Mercury/6020B Dissolved Part 375 Metals (Field Filtered), 7470 Diss. Mercury (Field Filtered) | 8260D Part 375 VOCs | 9012B Cyanide, Total | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | N | N | N | N | D | A | B | | |
| RXMW-1 | 9/13/24 | 1225 | G | W | Y | N | X | X | X | X | X | X | X | 11 | FF DISS METALS FIELD FILTERED |
| RXMW-5 | " | 1330 | G | W | Y | Y | X | X | X | X | X | X | X | 11 | |
| FB-09132024 | 9/13/24 | — | — | W | N | N | | | | | | X | | 2 | |

460-311357 Chain of Custody

SHOR
HOLD

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological | ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested I II III IV Other (specify) | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | EL | 9/13/24 1435 | Roux | | 9/13/24 1435 | |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 9-13-24 1760 | Company EET |
| 3 | Relinquished by: | Date/Time: 9-13-24 1915 | Company EET | Received by: Roux | Date/Time: 9/13 1915 | Company ETA |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Page 58 of 60

9/23/2024

**Eurofins TestAmerica Edison**
**Receipt Temperature and pH Log**

Job Number: 311357

Number of Coolers: 1 IR Gun # 9

## Cooler Temperatures

| | RAW | CORRECTED | | RAW | CORRECTED | | RAW | CORRECTED |
|---|---|---|---|---|---|---|---|---|
| Cooler #1: | 1.1 °C | 1.3 °C | Cooler #4: | °C | °C | Cooler #7: | °C | °C |
| Cooler #2: | °C | °C | Cooler #5: | °C | °C | Cooler #8: | °C | °C |
| Cooler #3: | °C | °C | Cooler #6: | °C | °C | Cooler #9: | °C | °C |

| TALS Sample Number | Ammonia (pH<2) | COD (pH<2) | Nitrate Nitrite (pH<2) | Metals* (pH<2) | Hardness (pH<2) | Pest (pH 5-9) | EPH or QAM (pH<2) | Phenols (pH<2) | Sulfide (pH>9) | TKN (pH<2) | TOC (pH<2) | Total Cyanide (pH>12) | Total Phos (pH<2) | Other | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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If pH adjustments are required record the information below*

Sample No(s). adjusted. _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s). _____ Expiration Date: _____

*The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.*

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: MM Date: 9-13-24

# Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-311357-1

**Login Number: 311357**

**List Source: Eurofins Edison**

**List Number: 1**

**Creator: Nelson, Rose E**

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