



## **ENCINA WASTEWATER AUTHORITY**

A Public Agency

6200 Avenida Encinas  
Carlsbad, CA 92011-1095  
Telephone (760) 438-3941  
FAX (760) 438-3861  
(Plant)

### **ENCINA WASTEWATER AUTHORITY**

#### **2024 ANNUAL PRETREATMENT PROGRAM REPORT**

NPDES PERMIT HOLDER AND  
SEWER AUTHORITY NAME:

Encina Wastewater Authority

REPORT DATE:

February 27, 2025

PERIOD COVERED BY THIS REPORT:

January 1 – December 31, 2024

NAME OF POTW:

Encina Water Pollution  
Control Facility

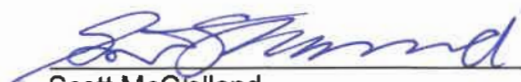
NPDES PERMIT NUMBER:

CA0107395

PERSON TO CONTACT CONCERNING INFORMATION CONTAINED IN THIS  
REPORT:

Alicia Appel  
Director of Environmental Compliance  
Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011-1095  
Telephone: (760) 268-8861

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
Scott McClelland  
General Manager

Dated: 2/26/2025



## ENCINA WASTEWATER AUTHORITY

---

A Public Agency

6200 Avenida Encinas  
Carlsbad, CA 92011-1095  
Telephone (760) 438-3941  
FAX (760) 438-3861  
(Plant)

February 27, 2025

Via CIWQS

Ref: EC 25-0022

California Regional Water Quality Control Board  
San Diego Region  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

Attention: Fisayo Osibodu

**SUBJECT: Submittal of 2022 Annual Pretreatment Program Report  
Period January 1, 2024 through December 31, 2024**

Dear Fisayo,

Enclosed please find a copy of the Encina Wastewater Authority Annual Pretreatment Program Report for 2024. This report is submitted as required by NPDES Permit Number CA0107395.

Please contact Alicia Appel, Director of Environmental Compliance, at 760-431-7493 if you have any questions.

Sincerely,

Scott McClelland  
General Manager

Attachment

cc: [R9Pretreatment@epa.gov](mailto:R9Pretreatment@epa.gov), EPA Region IX  
Erica Kalve, State Water Resources Control Board  
Gary Erbeck, San Diego County Department of Environmental Health



# **Encina Wastewater Authority Annual Pretreatment Program Report**

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## **Program Summary**

The Encina Wastewater Authority (Encina) operates an approved pretreatment program in North San Diego County. Encina is a joint powers authority consisting of six member agencies: the Cities of Vista, Carlsbad, and Encinitas, as well as the Vallecitos Water District, the Buena Sanitation District, and the Leucadia Wastewater District. The Encina System is comprised of the collection, treatment and disposal facilities of its member agencies including: the Encina Water Pollution Control Facility (EWPCF), the Gafner Water Reclamation Facility (GWRF), the Meadowlark Water Reclamation Facility (MWRF), the Carlsbad Water Recycling Facility (CWRF), and the Encina Ocean Outfall.

The Encina service area encompasses a population of approximately 378,976 and covers a 125 square mile area. This area is predominantly characterized by residential development. At the end of 2024, the combined flow to the EWPCF and MWRF was approximately 27.79 million gallons per day (MGD) and the total combined industrial flow to both plants was approximately 0.47 MGD, representing only 1.68% of the total average daily influent to both treatment plants. The manufacturing sector and residential population growth in the service area remained fairly steady.

During 2024, there were no incidents of upset, interference, or pass-through at Encina attributed to industrial users. All monitoring of the Encina Ocean Outfall and receiving water in 2024 demonstrated compliance with regulatory standards.

During 2024, Encina had 51 permitted Industrial Users (IUs): 17 Categorical Industrial Users (CIUs), five Non-Categorical Significant Industrial Users (SIUs) and 29 Class III Industrial Users that include Non-Significant Categorical Industrial Users (NSCIUs), Research and Development (R/D), zero-discharge CIUs, and other businesses with the potential to impact the Encina System). Encina staff conducted a total of 121 Facility Inspections including 55 Annual Inspections.

Encina and the industrial users perform regular monitoring during the calendar year and met federal requirements. Representative grab and composite samples are used to determine compliance. A total of 263 monitoring events were performed during the calendar year. Encina staff conducted 122 monitoring events, including 96 from CIU/SIU industries. Industrial Users performed 141 monitoring events including 110 from CIU/SIU industries.

Encina maintains a proactive enforcement stance. During 2024, 64 Notices of Violation (NOVs) were issued and \$54,050 in fines and \$6,300 in enforcement costs were assessed. Two of the 22 CIU/SIUs active in the service area during the year were found to be in Significant Non-Compliance (SNC). Both industries in SNC during the year are implementing corrective actions and working to demonstrate compliance.

Local Limit for the Encina Water Pollution Control Facility (EWPCF) and Meadowlark Water Reclamation Facility (MWRF) were updated and approved in 2012. A 2019 Local Limits Technical Evaluation determined that, overall, the existing local limits are adequate



and protective of the Encina Wastewater Authority's facilities. These findings were submitted to the San Diego Regional Water Quality Control Board (RWQCB) on August 19, 2020.

## **Summary of Analytical Results**

Data required in this section has been reported electronically to the RWQCB through the California Integrated Water Quality System (CIWQS). Please refer to the Encina Water Pollution Control Facility and Ocean Outfall 2024 monthly, quarterly, and semiannual self-monitoring reports for Order No. R9-2018-0059, NPDES Permit No. CA0107395. Full priority pollutant scans of the influent and effluent for the EWPCF and MWRF are attached in Appendix A.

## **Upset, Interference or Pass-through Incidents**

During 2024, there were no incidents of upset, interference, or pass-through at Encina attributed to industrial users. All monitoring of the Encina Ocean Outfall and receiving water in 2024 demonstrated compliance with regulatory standards.

## **Industrial Users**

Appendix B contains a list of all SIUs along with: federal category, if applicable; type of pretreatment in place (if any); the number of inspections conducted; the number of samples collected by Encina; the number of samples collected by the IU; the number of limit violations; the IU's compliance status by quarter; whether all Total Toxic Organics (TTO) certifications or monitoring data were submitted; and a summary of any enforcement actions taken. Below is a list of additions, changes of status, and deletions that occurred during the year.

### **Additions**

Alsco Uniforms (Alsco) facility is located at 760 Shadowridge Drive, in Vista. The facility is an industrial laundry with an estimated industrial discharge of 30,000 gpd. Alsco will be regulated as a Class II SIU based on the industrial flow being greater than 25,000 gpd. Laundered items include uniforms, floor mats, restaurant linens, bath towels, hospitality items and bedsheets. Alsco is required to self-monitor quarterly for all local limits and submit semiannual Compliance Status Reports. Encina will continue to perform periodic Publicly Owned Treatment Works (POTW) monitoring and annual inspections to verify compliance with Local, State, and Federal regulations. The Class II permit was issued January 30, 2024 and expires February 1, 2028.

Mirada Manufacturing (Mirada) facility is located at 2384 La Mirada Dr in Vista. Mirada is a contract manufacturer that makes supplements for health and wellness products. Mirada manufactures medium-chain triglycerides (MCT) oil, cannabidiol (CBD) extracts,

and other natural ingredients in finished goods. These finished goods include lotions, salves, oils, tinctures, and edibles. Mirada is subject to federal regulations as a Pharmaceutical Manufacturer under 40 CFR 439.47- Subpart D - Mixing/Compounding and Formulating, Pretreatment Standards New Source (PSNS). There are less than 100 gpd of federally regulated wastewater discharged to sewer from washing the floors, mixers, and utensils. Mirada is a Class III facility (NSCIU). Mirada shall submit semi-annual CSRs and certifications. Encina shall perform annual inspections to verify compliance with the NSCIU Permit. The permit was effective on June 18, 2024 and will expire on June 1, 2028.

### **Changes of Status**

- Aqua Exchange - changed status from a Class III local limits permit to a BMP permit due to the removal of a regeneration process for RO membranes. An inspection was performed on 6/19/2024 which confirmed the regeneration equipment is dismantled. The Class III permit was rescinded on 7/12/2024.
- SAFC dba Millipore Sigma - Changed status from a Class III zero discharger to a Class I discharger as a result of a satisfactory BMR from their laboratory processes. The Class I permit was issued on 5/7/2024. A second BMR from their manufacturing suites showed compliance with applicable regulations and this waste stream was added to their permit on 12/27/2024. The facility is regulated as a pharmaceutical manufacturer under 40 CFR 439.
- Carlsbad Energy Center - changed status from a Class III facility regulated under local limits to a BMP. Encina has reviewed historical monitoring data and confirmed the absence of parameter exceedances. CEC does not appear to have any processes that generate industrial wastewater that have the potential to cause upset, pass through, or interference at the wastewater treatment plant or collection system. The Class III permit was rescinded on 8/24/2024.

### **Deletions**

- American Faucet - a closure inspection was performed at American Faucet a Zero Discharge Class III facility located at 3280 Corporate View, Vista on 10/8/2024. American Faucet manufactured plumbing fixtures and performed associated metal finishing operations. The inspection confirmed that all wastewater generating equipment had been removed and all waste hauling manifests appeared in order. The permit was rescinded on 10/14/2024.
- Ostendo Technology- a closure inspection was performed at Ostendo Technology located at 6231 Yarrow Drive in Carlsbad on 3/21/2024. Ostendo was a standalone R/D Class III facility that performed R/D on electronic optical equipment. The final inspection showed that the equipment had been disconnected and was staged for final pickup. Waste manifests were reviewed and appeared in order. The permit was rescinded on 3/26/2024.
- Hayse Hand Piece - a closure inspection was performed at Hayse Hand Piece facility located at 1822 Aston Ave in Carlsbad. The facility refurbished dental instruments and performed metal finishing operations. The facility held a Class III

Zero discharge permit. The closure inspection confirmed all wastewater generating equipment has been removed and the final hauling manifests were in order. The permit was rescinded on 5/21/2024.

Appendix C contains a list of industries that Encina has designated as Non-Significant Categorical Industrial Users (NSCIUs) based on their limited ability to impact the Encina System (discharge less than 100 gallons per day, never discharge concentrated wastestreams, and have demonstrated compliance with applicable discharge limits.) Encina continues to perform annual inspections of these businesses. Each industry must submit semiannual certification statements that they continue to meet the NSCIU criteria.

### **Baseline Monitoring Report Requirements**

The following Baseline Monitoring Reports (BMRs) were submitted and reviewed by Encina in 2024:

SAFC (Whiptail location) submitted two Baseline Monitoring Reports to discharge federally regulated wastewater from their Quality Assurance/Quality Control (QA/QC) labs, and manufacturing suites. SAFC is a contract manufacturer of viral vectors for use in clinical and gene therapy applications via extraction of viral vectors from infected mammalian cells. They are permitted under 40 CFR 439 Subpart B – Extraction Products (PSNS). The BMRs demonstrated compliance with all applicable limits.

Palomar Laundry submitted a BMR on 4/11/2024 for discharge from their commercial laundry. The facility is regulated as a Significant Industrial User based on a wastewater flow >25,000 subject to local limits. The BMR demonstrated compliance with all applicable local limits.

HRE Performance wheels submitted a BMR on 3/29/2024 for a discharge from their polishing tumblers. HRE performs an acid-based zirconium (phosphating) coating (Advantech P650R) of aluminum. Therefore, they are regulated under 40 CFR 433.17 as a Metal Finisher. The BMR demonstrated compliance with applicable standards.

AlSCO Uniforms submitted a BMR on 4/2/2024 for discharge from their industrial laundry. AlSCO is regulated as a Class II SIU based on the industrial flow being greater than 25,000 gpd. The BMR demonstrated compliance with all local limits.

Biodriven submitted a BMR on 4/4/2024 for commercial restaurants and kitchen waste grease and oil that is treated prior to biofuel manufacturing or offsite disposal. The BMR demonstrated compliance with all local limits.

Mirada Manufacturing submitted a BMR on 4/26/2024 for discharging their equipment cleaning wastewater. Mirada is federally regulated under 40 CFR 439 Subpart D – Mixing/Compounding and Formulating and performs mixing/compounding of MTC oil, Cannabidiol (CBD) extract, and other natural products for finished goods. The BMR demonstrated compliance with all applicable limits.

Seaspine Inc. submitted a BMR on 10/25/2024 to add a passivation wastestream to the facilities permit. Seaspine Inc. is regulated as a metal finisher under 40 CFR 433.17 (PSNS). Core metal finishing processes include chemical etching and passivation of titanium and stainless steel. The BMR demonstrated compliance with all applicable limits.

### **Enforcement Activities**

Encina maintains a proactive enforcement stance in accordance with the Enforcement Response Plan and Guide. Administrative Orders are not an approved element of Encina's Enforcement Response Plan. During 2024, 64 Notices of Violation (NOVs) were issued and \$54,500 in fines and \$6,300 in enforcement costs were assessed.

**SIUs in Significant Non-Compliance (SNC).** In Calendar year 2024, two of the 22 CIU/SIUs active in the service area during the year were found to be in SNC, including one industry with a single monthly average violating monitoring event.

Bachem Americas: located in Vista was in SNC for the third and fourth evaluation periods due to a single violation for Ammonia Nitrogen on September 10, 2024. The Technical Review Criteria (TRC) was 1/3 violations (33%). The IU was issued one NOV and \$100 in fines and fees. Bachem is investigating the cause of the violation.

### **HRE Performance Wheels:**

HRE Performance wheels located in Vista was in SNC for the first, third, and fourth evaluation periods. The first evaluation period, HRE was in SNC for copper due to Daily Max (TRC 2/6 33% violations) and Monthly Average (TRC 2/6 33% violations). In the third evaluation period, HRE was in SNC due to Chronic Daily Max (4/6 66% violations) and (TRC 3/6 50% violations). The fourth evaluation period, HRE was in SNC due to Daily Max (Chronic 4/4 100% violations) and (TRC 1/3 33% violations). In 2024, HRE issued seven NOVs with \$5,050 in fines including non-routine enforcement costs. HRE is in process of trouble shooting their upgraded pretreatment system.

### **Pollution Prevention Plans**

No industries have submitted or been required to submit a pollution prevention plan.

### **Best Management Practices (BMP) Program**

In addition to the regulation of SIUs, Encina implements a BMP Program to reduce the level of pollutants entering the system and reaching the EWPCF. Encina currently has 487 businesses in the BMP program. Users agree to implement a variety of actions directed at reducing the level of pollutants in their discharge. Inspections by Encina staff, along with periodic inventory efforts with Member Agencies and regulatory databases, are used to verify program effectiveness and industry coverage.

### **Significant Changes in Pretreatment Program Operation**

In 2024 no significant changes occurred in the pretreatment program operations. However, Encina continued to work with an information technology contractor to enhance the new database solution, referred to as the Pretreatment Information Management System (PIMS). The primary areas of increased functionality include direct import of data from Encina's lab, improved industry monthly average limit evaluations, SNC calculations, and report/notice generation. PIMS integrates with other key Encina software such as Microsoft programs, Wastewater Information Management System (WIMS), Laboratory Information Management System (LIMS) and finance software Munis.

### **Sewage Transfer Agreement Between the City of Oceanside and City of Vista**

The City of Vista maintains an agreement with the City Oceanside to provide a connection to the City of Vista collection system for wastewater disposal. During calendar year 2024, the City of Oceanside discharged an average of 1.31 MGD to the City of Vista collection system. The wastewater is then conveyed to the Encina Water Pollution Control Facility for treatment and discharge to the Pacific Ocean. The agreement requires the City of Oceanside to administer Encina's local limits and pretreatment ordinance and allows for a maximum average daily flow of 2.15 MGD.

The area contributing wastewater to the City of Vista is characterized as mainly residential with light commercial. The City of Oceanside reported via email that there were no Significant Industrial Users active in the service area contributing to the City of Vista in 2024.

### **Summary of Annual Pretreatment Budget**

The FY 2025 budget for Encina's Pretreatment Program is \$1,157,985. The FY 2024 budget for the Pretreatment Program was \$1,019,627. A line-item detail of the budget is attached for reference in Appendix D.

### **Public Education**

The EWPCF has been designed to maximize the use of alternative and renewable resources, including methane gas and biosolids, plus generate effluent for recycled wastewater operations. In 2024, Encina continued multiple plant enhancement and rehabilitation projects, which includes Digester Improvements and Rehabilitation, Primary Area Improvements and Rehabilitation, Cogeneration Building Structural Repair, and Network Improvements. Due to the ongoing construction projects, Encina has temporarily halted public tours. Tours may reinstate once it is deemed appropriate.

Encina also generally participates in other community outreach activities. In 2024, Encina purchased new public outreach gifts to promote sustainability and environmental awareness while representing Encina at participating member agency events. Encina Source Control staff utilizes a wastewater treatment plant demonstration model at community events. During 2024, Encina participated in the following events: Alta Vista Botanical Gardens Earth Day Festival on April 20, 2024, San Diego Fair Eco Hut on June 21, 2024, Citizens Academy on October 3, 2024, Alta Vista Botanical Garden Fall Fun Festival on October 12, 2024, the Encinitas Paul Ecke Elementary School on October 15, 2024.

Encina staff provide information via phone and e-mails to private citizens and inquiring parties. In addition, copies of the brochure entitled "10 Simple Things You Can Do to Protect the Ocean" were provided to various organizations and private citizens as requested, and information was improved on the Encina website, [www.encinajpa.com](http://www.encinajpa.com).

40 CFR Part 403.8(f)(2)(viii) requires at least annual public notification, in the largest daily newspaper in the POTW's service area, of industrial users, which at any time during the previous twelve months, were found in significant non-compliance. Attached in Appendix E is a copy of the SNC publication for the period of January 1 to December 31, 2024.

### **Biosolids Disposal Methods**

In 2024, Encina produced approximately 6,474 Dry Metric Tons (DMT) of Class A and Class B biosolids. See the table below for the breakdown. Denali Water Solutions ("Denali") and Ecology were the primary haulers used by Encina for biosolids management. Biosolids were transported to Arizona for land application. The remaining biosolids are sold and/or given away to nurseries, soil blenders, and/or as a fertilizer product.

|            |         |     |
|------------|---------|-----|
| Class A    | 3,593.7 | DMT |
| Class B    | 2,202.3 | DMT |
| Landfill   | 501.4   | DMT |
| Fertilizer | 176.6   | DMT |

Laboratory data demonstrates that metal levels in the biosolids are well below the allowable pollutant concentrations for land application as found in Table 3 of 40 CFR Part 503.13. The ability to consistently meet these standards is largely due to Encina's small industrial base and effective Pretreatment Program.

# **Appendix A:**

# **Priority Pollutant Lab**

# **Data**



# ENCINA WASTEWATER AUTHORITY

A Public Agency

6200 Avenida Encinas  
Carlsbad, CA 92011-1095  
Telephone (760) 438-3941  
FAX (760) 438-3861 (Plant)  
(760) 431-7493 (Admin)

## SAMPLE RESULTS REPORT

Report Date : 6/10/2024

| REPORT TO |              | ELAP Certification No. 1441 |        | 240530014 |                  |
|-----------|--------------|-----------------------------|--------|-----------|------------------|
|           |              |                             |        |           |                  |
|           |              |                             |        |           |                  |
| Sample ID | Sample Point | Analyte Name                | Result | Units     | Method Reference |

|         |                 |                   |        |                       |             |
|---------|-----------------|-------------------|--------|-----------------------|-------------|
| AB58617 | Encina Influent |                   |        | Collected: 02/08/2024 | Time: 08:33 |
|         |                 | Zinc by ICP       | 0.112  | mg/L                  | EPA 200.7   |
|         |                 | Thallium by ICP   | <0.016 | mg/L                  | EPA 200.7   |
|         |                 | Silver by ICP     | <0.032 | mg/L                  | EPA 200.7   |
|         |                 | Selenium by ICP   | <0.02  | mg/L                  | EPA 200.7   |
|         |                 | Nickel by ICP     | <0.012 | mg/L                  | EPA 200.7   |
|         |                 | Molybdenum by ICP | <0.012 | mg/L                  | EPA 200.7   |
|         |                 | Lead by ICP       | <0.016 | mg/L                  | EPA 200.7   |
|         |                 | Copper by ICP     | 0.062  | mg/L                  | EPA 200.7   |
|         |                 | Chromium by ICP   | <0.01  | mg/L                  | EPA 200.7   |
|         |                 | Cadmium by ICP    | <0.012 | mg/L                  | EPA 200.7   |
|         |                 | Boron by ICP      | 0.362  | mg/L                  | EPA 200.7   |
|         |                 | Beryllium by ICP  | <0.012 | mg/L                  | EPA 200.7   |
|         |                 | Arsenic by ICP    | <0.02  | mg/L                  | EPA 200.7   |
|         |                 | Antimony by ICP   | <0.024 | mg/L                  | EPA 200.7   |

Certified By:

Rachael Morgan

Rachael Morgan, Laboratory Manager

Date:

12/26/24





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Rachael Morgan  
Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, California 92011

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## JOB DESCRIPTION

2024 Annual Encina Influent Priority PollutantScan

## JOB NUMBER

570-171795-1

# Eurofins Calscience

## Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

## Authorization



Authorized for release by  
Janice Hsu, Project Manager I  
[Janice.Hsu@et.eurofinsus.com](mailto:Janice.Hsu@et.eurofinsus.com)  
(657)210-6359

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## Definitions/Glossary

Client: Encina Wastewater Authority

Job ID: 570-171795-1

Project/Site: 2024 Annual Encina Influent Priority PollutantScan

### Qualifiers

#### General Chemistry

| Qualifier | Qualifier Description                          |
|-----------|------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits. |

### Glossary

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

## Case Narrative

Client: Encina Wastewater Authority  
Project: 2024 Annual Encina Influent Priority PollutantScan

Job ID: 570-171795-1

**Job ID: 570-171795-1**

**Eurofins Calscience**

### **Job Narrative 570-171795-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

#### **Receipt**

The sample was received on 2/9/2024 6:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

#### **Metals**

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

#### **General Chemistry**

Method Kelada\_01: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-413582 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Eurofins Calscience

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Client Sample Results

Client: Encina Wastewater Authority

Job ID: 570-171795-1

Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Method: EPA 245.1 - Mercury (CVAA)

|                                   |        |           |         |         |                             |   |                |                |         |
|-----------------------------------|--------|-----------|---------|---------|-----------------------------|---|----------------|----------------|---------|
| Client Sample ID: Encina Influent |        |           |         |         | Lab Sample ID: 570-171795-1 |   |                |                |         |
| Date Collected: 02/08/24 08:21    |        |           |         |         | Matrix: Water               |   |                |                |         |
| Date Received: 02/09/24 18:10     |        |           |         |         |                             |   |                |                |         |
| Analyte                           | Result | Qualifier | RL      | MDL     | Unit                        | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                           | ND     |           | 0.00020 | 0.00012 | mg/L                        |   | 02/15/24 12:41 | 02/16/24 16:27 | 1       |

Client Sample Results

Client: Encina Wastewater Authority

Job ID: 570-171795-1

Project/Site: 2024 Annual Encina Influent Priority PollutantScan

General Chemistry

|                                   |        |           |     |     |                             |   |          |                |         |
|-----------------------------------|--------|-----------|-----|-----|-----------------------------|---|----------|----------------|---------|
| Client Sample ID: Encina Influent |        |           |     |     | Lab Sample ID: 570-171795-1 |   |          |                |         |
| Date Collected: 02/08/24 08:21    |        |           |     |     | Matrix: Water               |   |          |                |         |
| Date Received: 02/09/24 18:10     |        |           |     |     |                             |   |          |                |         |
| Analyte                           | Result | Qualifier | RL  | MDL | Unit                        | D | Prepared | Analyzed       | Dil Fac |
| Cyanide, Total (EPA Kelada 01)    | ND     |           | 5.0 | 2.5 | ug/L                        |   |          | 02/22/24 16:58 | 1       |



## QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Encina Influent Priority Pollutant Scan

Job ID: 570-171795-1

### Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-410991/1-A  
Matrix: Water  
Analysis Batch: 411554

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 410991

| Analyte | MB<br>Result | MB<br>Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND           |                 | 0.00020 | 0.00012 | mg/L |   | 02/15/24 12:41 | 02/16/24 16:11 | 1       |

Lab Sample ID: LCS 570-410991/2-A  
Matrix: Water  
Analysis Batch: 411554

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 410991

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|----------------|
| Mercury | 0.00800        | 0.00733       |                  | mg/L |   | 92   | 85 - 115       |

Lab Sample ID: LCSD 570-410991/3-A  
Matrix: Water  
Analysis Batch: 411554

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 410991

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| Mercury | 0.00800        | 0.00767        |                   | mg/L |   | 96   | 85 - 115       | 5   | 10           |

Lab Sample ID: 380-79540-H-1-B MS  
Matrix: Water  
Analysis Batch: 411554

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 410991

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Mercury | ND               |                     | 0.00800        | 0.00736      |                 | mg/L |   | 92   | 85 - 115       |

Lab Sample ID: 380-79540-H-1-C MSD  
Matrix: Water  
Analysis Batch: 411554

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 410991

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Mercury | ND               |                     | 0.00800        | 0.00733       |                  | mg/L |   | 92   | 85 - 115       | 0   | 10           |

### Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 570-413582/11  
Matrix: Water  
Analysis Batch: 413582

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

| Analyte        | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Cyanide, Total | ND           |                 | 5.0 | 2.5 | ug/L |   |          | 02/22/24 14:51 | 1       |

Lab Sample ID: LCS 570-413582/12  
Matrix: Water  
Analysis Batch: 413582

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

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|----------------|
| Cyanide, Total | 250            | 243           |                  | ug/L |   | 97   | 90 - 110       |

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Job ID: 570-171795-1

## Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate (Continued)

Lab Sample ID: LCSD 570-413582/13

Matrix: Water

Analysis Batch: 413582

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 |
|----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 250         | 229         |                | ug/L |   | 92   | 90 - 110    | 6   | 20        |

Lab Sample ID: MRL 570-413582/10

Matrix: Water

Analysis Batch: 413582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |  |  |
|----------------|-------------|------------|---------------|------|---|------|-------------|--|--|
| Cyanide, Total | 5.00        | 6.08       |               | ug/L |   | 122  | 50 - 150    |  |  |

Lab Sample ID: 570-172004-A-1 MS

Matrix: Water

Analysis Batch: 413582

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |  |  |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--|--|
| Cyanide, Total | 3.8           | J F1             | 250         | 91.1      | F1           | ug/L |   | 35   | 70 - 130    |  |  |

Lab Sample ID: 570-172004-A-1 MSD

Matrix: Water

Analysis Batch: 413582

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 3.8           | J F1             | 250         | 91.6       | F1            | ug/L |   | 35   | 70 - 130    | 1   | 30        |

## QC Association Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Job ID: 570-171795-1

### Metals

#### Prep Batch: 410991

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 570-171795-1        | Encina Influent        | Total/NA  | Water  | 245.1  |            |
| MB 570-410991/1-A   | Method Blank           | Total/NA  | Water  | 245.1  |            |
| LCS 570-410991/2-A  | Lab Control Sample     | Total/NA  | Water  | 245.1  |            |
| LCSD 570-410991/3-A | Lab Control Sample Dup | Total/NA  | Water  | 245.1  |            |
| 380-79540-H-1-B MS  | Matrix Spike           | Total/NA  | Water  | 245.1  |            |
| 380-79540-H-1-C MSD | Matrix Spike Duplicate | Total/NA  | Water  | 245.1  |            |

#### Analysis Batch: 411554

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 570-171795-1        | Encina Influent        | Total/NA  | Water  | 245.1  | 410991     |
| MB 570-410991/1-A   | Method Blank           | Total/NA  | Water  | 245.1  | 410991     |
| LCS 570-410991/2-A  | Lab Control Sample     | Total/NA  | Water  | 245.1  | 410991     |
| LCSD 570-410991/3-A | Lab Control Sample Dup | Total/NA  | Water  | 245.1  | 410991     |
| 380-79540-H-1-B MS  | Matrix Spike           | Total/NA  | Water  | 245.1  | 410991     |
| 380-79540-H-1-C MSD | Matrix Spike Duplicate | Total/NA  | Water  | 245.1  | 410991     |

### General Chemistry

#### Analysis Batch: 413582

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 570-171795-1       | Encina Influent        | Total/NA  | Water  | Kelada 01 |            |
| MB 570-413582/11   | Method Blank           | Total/NA  | Water  | Kelada 01 |            |
| LCS 570-413582/12  | Lab Control Sample     | Total/NA  | Water  | Kelada 01 |            |
| LCSD 570-413582/13 | Lab Control Sample Dup | Total/NA  | Water  | Kelada 01 |            |
| MRL 570-413582/10  | Lab Control Sample     | Total/NA  | Water  | Kelada 01 |            |
| 570-172004-A-1 MS  | Matrix Spike           | Total/NA  | Water  | Kelada 01 |            |
| 570-172004-A-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | Kelada 01 |            |

Lab Chronicle

Client: Encina Wastewater Authority

Job ID: 570-171795-1

Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Client Sample ID: Encina Influent

Lab Sample ID: 570-171795-1

Date Collected: 02/08/24 08:21

Matrix: Water

Date Received: 02/09/24 18:10

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA  | Prep       | 245.1                   |     |            | 25 mL          | 50 mL        | 410991       | 02/15/24 12:41       | EV3M    | EET CAL 4 |
| Total/NA  | Analysis   | 245.1                   |     | 1          |                |              | 411554       | 02/16/24 16:27       | ECX6    | EET CAL 4 |
|           |            | Instrument ID: HG9      |     |            |                |              |              |                      |         |           |
| Total/NA  | Analysis   | Kelada 01               |     | 1          | 8 mL           | 8 mL         | 413582       | 02/22/24 16:58       | GG0B    | EET CAL 4 |
|           |            | Instrument ID: LACHAT01 |     |            |                |              |              |                      |         |           |

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Job ID: 570-171795-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

| Authority  | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| California | State   | 3082                  | 07-31-24        |
| Oregon     | NELAP   | 4175                  | 02-03-25        |

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

Method Summary

Client: Encina Wastewater Authority

Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Job ID: 570-171795-1

| Method    | Method Description                               | Protocol | Laboratory |
|-----------|--------------------------------------------------|----------|------------|
| 245.1     | Mercury (CVAA)                                   | EPA      | EET CAL 4  |
| Kelada 01 | Cyanide, Total, Acid Dissociable and Thiocyanate | EPA      | EET CAL 4  |
| 245.1     | Preparation, Mercury                             | EPA      | EET CAL 4  |

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Encina Influent Priority PollutantScan

Job ID: 570-171795-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 570-171795-1  | Encina Influent  | Water  | 02/08/24 08:21 | 02/09/24 18:10 |

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

Ver: 08/04/2016  
2/23/2024



## Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-171795-1

Login Number: 171795

List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

**Work Orders:** 4B09033

**Report Date:** 4/08/2024

**Received Date:** 2/8/2024

**Project:** 2024 Annual Encina Influent Priority Pollutant Scan

**Turnaround Time:** Normal

**Phones:** (760) 438-3941

**Fax:**

**P.O. #:**

**Billing Code:**

**Attn:** Rachael Morgan

**Client:** Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006**

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.*

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 2/08/24 with the Chain-of-Custody document. The samples were received in good condition, at 2.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Ryan J. Gasio  
Project Manager



Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Summary

| Sample Name     | Sampled By | Lab ID     | Matrix | Sampled        | Qualifiers |
|-----------------|------------|------------|--------|----------------|------------|
| Encina Influent | S. Nguyen  | 4B09033-01 | Water  | 02/08/24 08:21 |            |
| Encina Influent | S. Nguyen  | 4B09033-02 | Water  | 02/08/24 09:15 |            |

## Analyses Accreditation Summary

| Analyte                          | CAS #     | Not By<br>ELAP-CA | Not By<br>NELAP | Not ANAB<br>ISO 17025 |
|----------------------------------|-----------|-------------------|-----------------|-----------------------|
| <b>EPA 608.3 in Water</b>        |           |                   |                 |                       |
| Mirex                            | 2385-85-5 | ⊗                 |                 | ⊗                     |
| 2,4'-DDT                         | 789-02-6  | ⊗                 | ⊗               | ⊗                     |
| 2,4'-DDE                         | 3424-82-6 | ⊗                 | ⊗               | ⊗                     |
| 2,4'-DDD                         | 53-19-0   | ⊗                 | ⊗               | ⊗                     |
| alpha-Chlordane                  | 5103-71-9 | ⊗                 |                 | ⊗                     |
| gamma-Chlordane                  | 5566-34-7 | ⊗                 |                 | ⊗                     |
| <b>EPA 624.1 in Water</b>        |           |                   |                 |                       |
| Chloromethane                    | 74-87-3   |                   | ⊗               |                       |
| Bromomethane                     | 74-83-9   |                   | ⊗               |                       |
| Chloroethane                     | 75-00-3   |                   | ⊗               |                       |
| 2-Hexanone                       | 591-78-6  | ⊗                 |                 | ⊗                     |
| 2-Butanone                       | 78-93-3   | ⊗                 |                 |                       |
| Methyl tert-butyl ether (MTBE)   | 1634-04-4 | ⊗                 |                 | ⊗                     |
| Carbon Disulfide                 | 75-15-0   | ⊗                 |                 | ⊗                     |
| cis-1,2-Dichloroethene           | 156-59-2  | ⊗                 |                 | ⊗                     |
| 4-Bromofluorobenzene             | 460-00-4  |                   |                 | ⊗                     |
| <b>EPA 625.1 in Water</b>        |           |                   |                 |                       |
| N-Nitrosodimethylamine           | 62-75-9   | ⊗                 |                 | ⊗                     |
| 1,3-Dichlorobenzene              | 541-73-1  | ⊗                 |                 | ⊗                     |
| 1,4-Dichlorobenzene              | 106-46-7  | ⊗                 |                 | ⊗                     |
| 1,2-Dichlorobenzene              | 95-50-1   | ⊗                 |                 | ⊗                     |
| Bis(2-chloroisopropyl)ether      | 108-60-1  |                   | ⊗               |                       |
| N-Nitrosodiphenylamine           | 86-30-6   | ⊗                 |                 | ⊗                     |
| 1,2-Diphenylhydrazine/Azobenzene | 122-66-7  | ⊗                 |                 | ⊗                     |
| 3,3'-Dichlorobenzidine           | 91-94-1   |                   |                 | ⊗                     |
| 2,4,6-Tribromophenol             | 118-79-6  |                   | ⊗               |                       |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Results

Sample: Encina Influent

Sampled: 02/08/24 8:21 by S. Nguyen

4B09033-01 (Water)

| Analyte                                            | Result                             | MRL                             | Units | Dil                 | Analyzed | Qualifier |
|----------------------------------------------------|------------------------------------|---------------------------------|-------|---------------------|----------|-----------|
| <b>Acid and Base/Neutral Extractables by GC/MS</b> |                                    |                                 |       |                     |          |           |
| <b>Method:</b> EPA 625.1                           |                                    | <b>Instr:</b> GCMS06            |       |                     |          |           |
| <b>Batch ID:</b> W4B0965                           | <b>Preparation:</b> EPA 625/L-L SF | <b>Prepared:</b> 02/13/24 07:02 |       | <b>Analyst:</b> rmr |          |           |
| 1,2,4-Trichlorobenzene                             | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 1,2-Dichlorobenzene                                | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 1,2-Diphenylhydrazine/Azobenzene                   | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 1,3-Dichlorobenzene                                | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 1,4-Dichlorobenzene                                | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2,4,6-Trichlorophenol                              | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2,4-Dichlorophenol                                 | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2,4-Dimethylphenol                                 | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2,4-Dinitrophenol                                  | ND                                 | 200                             | ug/l  | 20                  | 02/29/24 | M-04      |
| 2,4-Dinitrotoluene                                 | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2,6-Dinitrotoluene                                 | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2-Chloronaphthalene                                | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2-Chlorophenol                                     | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 2-Methyl-4,6-dinitrophenol                         | ND                                 | 100                             | ug/l  | 20                  | 02/29/24 | M-04      |
| 2-Nitrophenol                                      | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 3,3'-Dichlorobenzidine                             | ND                                 | 100                             | ug/l  | 20                  | 02/29/24 | M-04      |
| 4-Bromophenyl phenyl ether                         | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 4-Chloro-3-methylphenol                            | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 4-Chlorophenyl phenyl ether                        | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| 4-Nitrophenol                                      | ND                                 | 100                             | ug/l  | 20                  | 02/29/24 | M-04      |
| Acenaphthene                                       | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Acenaphthylene                                     | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Anthracene                                         | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Benzidine                                          | ND                                 | 200                             | ug/l  | 20                  | 02/29/24 | M-04      |
| Benzo (a) anthracene                               | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Benzo (a) pyrene                                   | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Benzo (b) fluoranthene                             | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Benzo (g,h,i) perylene                             | ND                                 | 40                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Benzo (k) fluoranthene                             | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Bis(2-chloroethoxy)methane                         | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Bis(2-chloroethyl)ether                            | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Bis(2-chloroisopropyl)ether                        | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |
| Bis(2-ethylhexyl)phthalate                         | ND                                 | 100                             | ug/l  | 20                  | 02/29/24 | M-04      |
| Butyl benzyl phthalate                             | ND                                 | 20                              | ug/l  | 20                  | 02/29/24 | M-04      |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Results

(Continued)

Sample: Encina Influent

Sampled: 02/08/24 8:21 by S. Nguyen

4B09033-01 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Acid and Base/Neutral Extractables by GC/MS (Continued)

**Method:** EPA 625.1

**Instr:** GCMS06

**Batch ID:** W4B0965

**Preparation:** EPA 625/L-L SF

**Prepared:** 02/13/24 07:02

**Analyst:** rmr

|                           |    |     |      |    |          |      |
|---------------------------|----|-----|------|----|----------|------|
| Chrysene                  | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Dibenzo (a,h) anthracene  | ND | 40  | ug/l | 20 | 02/29/24 | M-04 |
| Diethyl phthalate         | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Dimethyl phthalate        | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Di-n-butyl phthalate      | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Di-n-octyl phthalate      | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Fluoranthene              | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Fluorene                  | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Hexachlorobenzene         | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Hexachlorobutadiene       | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Hexachlorocyclopentadiene | ND | 100 | ug/l | 20 | 02/29/24 | M-04 |
| Hexachloroethane          | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Indeno (1,2,3-cd) pyrene  | ND | 40  | ug/l | 20 | 02/29/24 | M-04 |
| Isophorone                | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Naphthalene               | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Nitrobenzene              | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| N-Nitrosodimethylamine    | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| N-Nitrosodi-n-propylamine | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| N-Nitrosodiphenylamine    | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Pentachlorophenol         | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Phenanthrene              | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Phenol                    | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |
| Pyrene                    | ND | 20  | ug/l | 20 | 02/29/24 | M-04 |

### Surrogate(s)

|                      |     |            |        |          |
|----------------------|-----|------------|--------|----------|
| 2,4,6-Tribromophenol | 60% | Conc: 24.3 | 25-120 | 02/29/24 |
| 2-Fluorobiphenyl     | 59% | Conc: 12.1 | 22-120 | 02/29/24 |
| 2-Fluorophenol       | 37% | Conc: 15.0 | 17-120 | 02/29/24 |
| Nitrobenzene-d5      | 54% | Conc: 11.0 | 47-120 | 02/29/24 |
| Phenol-d5            | 22% | Conc: 8.93 | 12-120 | 02/29/24 |
| Terphenyl-d14        | 67% | Conc: 13.5 | 44-129 | 02/29/24 |

### Chlorinated Pesticides and/or PCBs by GC/ECD

**Method:** EPA 608.3

**Instr:** GC07

**Batch ID:** W4B0770

**Preparation:** EPA 608/L-L SF

**Prepared:** 02/09/24 09:55

**Analyst:** ECS

|          |    |     |      |    |          |      |
|----------|----|-----|------|----|----------|------|
| 4,4'-DDD | ND | 1.0 | ug/l | 20 | 03/06/24 | M-04 |
| 4,4'-DDE | ND | 1.0 | ug/l | 20 | 03/06/24 | M-04 |

4B09033

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Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Results

(Continued)

Sample: Encina Influent

Sampled: 02/08/24 8:21 by S. Nguyen

4B09033-01 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

**Method:** EPA 608.3

**Instr:** GC07

**Batch ID:** W4B0770

**Preparation:** EPA 608/L-L SF

**Prepared:** 02/09/24 09:55

**Analyst:** ECS

|                     |    |      |      |    |          |            |
|---------------------|----|------|------|----|----------|------------|
| 4,4'-DDT            | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Aldrin              | ND | 0.10 | ug/l | 20 | 03/06/24 | M-04       |
| alpha-BHC           | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Aroclor 1016        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Aroclor 1221        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Aroclor 1232        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Aroclor 1242        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Aroclor 1248        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Aroclor 1254        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Aroclor 1260        | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |
| beta-BHC            | ND | 0.10 | ug/l | 20 | 03/06/24 | M-04, R-01 |
| Chlordane (tech)    | ND | 2.0  | ug/l | 20 | 03/06/24 | M-04       |
| delta-BHC           | ND | 0.10 | ug/l | 20 | 03/06/24 | M-04       |
| Dieldrin            | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Endosulfan I        | ND | 0.40 | ug/l | 20 | 03/06/24 | M-04       |
| Endosulfan II       | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Endosulfan sulfate  | ND | 1.0  | ug/l | 20 | 03/06/24 | M-04       |
| Endrin              | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Endrin aldehyde     | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| gamma-BHC (Lindane) | ND | 0.40 | ug/l | 20 | 03/06/24 | M-04       |
| Heptachlor          | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Heptachlor epoxide  | ND | 0.20 | ug/l | 20 | 03/06/24 | M-04       |
| Toxaphene           | ND | 10   | ug/l | 20 | 03/06/24 | M-04, R-01 |

### Surrogate(s)

|                         |                  |        |          |      |
|-------------------------|------------------|--------|----------|------|
| Decachlorobiphenyl      | 33% Conc: 0.0349 | 33-133 | 03/06/24 |      |
| Tetrachloro-meta-xylene | 31% Conc: 0.0322 | 32-130 | 03/06/24 | S-GC |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Results

(Continued)

Sample: Encina Influent

Sampled: 02/08/24 9:15 by S.Nguyen

4B09033-02 (Water)

| Analyte                                                | Result                        | MRL                             | Units | Dil                 | Analyzed | Qualifier |
|--------------------------------------------------------|-------------------------------|---------------------------------|-------|---------------------|----------|-----------|
| <b>Volatile Organic Compounds by P&amp;T and GC/MS</b> |                               |                                 |       |                     |          |           |
| <b>Method:</b> EPA 624.1                               |                               | <b>Instr:</b> GCMS21            |       |                     |          |           |
| <b>Batch ID:</b> W4B0748                               | <b>Preparation:</b> EPA 5030B | <b>Prepared:</b> 02/09/24 09:26 |       | <b>Analyst:</b> ADM |          |           |
| 1,1,1-Trichloroethane                                  | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 1,1,2,2-Tetrachloroethane                              | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 1,1,2-Trichloroethane                                  | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 1,1-Dichloroethane                                     | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 1,1-Dichloroethene                                     | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 1,2-Dichloroethane                                     | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 1,2-Dichloropropane                                    | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 2-Butanone                                             | ND                            | 250                             | ug/l  | 50                  | 02/09/24 | M-05      |
| 2-Chloroethyl vinyl ether                              | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| 2-Hexanone                                             | ND                            | 250                             | ug/l  | 50                  | 02/09/24 | M-05      |
| 4-Methyl-2-pentanone                                   | ND                            | 250                             | ug/l  | 50                  | 02/09/24 | M-05      |
| Acetone                                                | ND                            | 250                             | ug/l  | 50                  | 02/09/24 | M-05      |
| Acrolein                                               | ND                            | 250                             | ug/l  | 50                  | 02/09/24 | M-05      |
| Acrylonitrile                                          | ND                            | 100                             | ug/l  | 50                  | 02/09/24 | M-05      |
| Benzene                                                | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Bromodichloromethane                                   | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Bromoform                                              | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Bromomethane                                           | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Carbon Disulfide                                       | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Carbon tetrachloride                                   | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Chlorobenzene                                          | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Chloroethane                                           | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Chloroform                                             | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Chloromethane                                          | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| cis-1,3-Dichloropropene                                | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Dibromochloromethane                                   | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Dichlorodifluoromethane (Freon 12)                     | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Ethylbenzene                                           | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| m-Dichlorobenzene                                      | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Methyl tert-butyl ether (MTBE)                         | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Methylene chloride                                     | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| o-Dichlorobenzene                                      | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| p-Dichlorobenzene                                      | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |
| Tetrachloroethene                                      | ND                            | 50                              | ug/l  | 50                  | 02/09/24 | M-05      |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

# Certificate of Analysis

FINAL REPORT

**Reported:**  
04/08/2024 16:06

## Sample Results

(Continued)

Sample: Encina Influent

Sampled: 02/08/24 9:15 by S.Nguyen

4B09033-02 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Volatile Organic Compounds by P&T and GC/MS (Continued)

**Method:** EPA 624.1

**Instr:** GCMS21

**Batch ID:** W4B0748

**Preparation:** EPA 5030B

**Prepared:** 02/09/24 09:26

**Analyst:** ADM

|                           |    |    |      |    |          |      |
|---------------------------|----|----|------|----|----------|------|
| Toluene                   | ND | 50 | ug/l | 50 | 02/09/24 | M-05 |
| trans-1,2-Dichloroethene  | ND | 50 | ug/l | 50 | 02/09/24 | M-05 |
| trans-1,3-Dichloropropene | ND | 50 | ug/l | 50 | 02/09/24 | M-05 |
| Trichloroethene           | ND | 50 | ug/l | 50 | 02/09/24 | M-05 |
| Trichlorofluoromethane    | ND | 50 | ug/l | 50 | 02/09/24 | M-05 |
| Vinyl chloride            | ND | 50 | ug/l | 50 | 02/09/24 | M-05 |

#### Surrogate(s)

|                       |      |            |        |          |      |
|-----------------------|------|------------|--------|----------|------|
| 1,2-Dichloroethane-d4 | 108% | Conc: 54.2 | 82-125 | 02/09/24 |      |
| 4-Bromofluorobenzene  | 101% | Conc: 50.5 | 88-108 | 02/09/24 |      |
| Toluene-d8            | 114% | Conc: 57.1 | 92-112 | 02/09/24 | S-11 |



Encina Wastewater Authority  
6200 Avenida Encinas  
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**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Results PACE-MN

Sample: Encina Influent  
4B09033-01 (Water)

Sampled: 02/08/24 8:21 by S. Nguyen

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

| Method: SW8290      | Batch ID: 37129 | Prepared: 02/28/24 11:07 |      |   |          | Analyst: JF |
|---------------------|-----------------|--------------------------|------|---|----------|-------------|
| 1,2,3,4,6,7,8-HpCDD | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,4,6,7,8-HpCDF | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,4,7,8,9-HpCDF | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,4,7,8-HxCDD   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,4,7,8-HxCDF   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,6,7,8-HxCDD   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,6,7,8-HxCDF   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,7,8,9-HxCDD   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,7,8,9-HxCDF   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,7,8-PeCDD     | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 1,2,3,7,8-PeCDF     | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 2,3,4,6,7,8-HxCDF   | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 2,3,4,7,8-PeCDF     | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| 2,3,7,8-TCDD        | ND              | 11                       | pg/L | 1 | 03/01/24 |             |
| 2,3,7,8-TCDF        | ND              | 11                       | pg/L | 1 | 03/01/24 |             |
| OCDD                | ND              | 110                      | pg/L | 1 | 03/01/24 |             |
| OCDF                | ND              | 110                      | pg/L | 1 | 03/01/24 |             |
| Total HpCDD         | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| Total HpCDF         | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| Total HxCDD         | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| Total HxCDF         | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| Total PeCDD         | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| Total PeCDF         | ND              | 54                       | pg/L | 1 | 03/01/24 |             |
| Total TCDD          | ND              | 11                       | pg/L | 1 | 03/01/24 |             |
| Total TCDF          | ND              | 11                       | pg/L | 1 | 03/01/24 |             |

### Surrogate(s)

|                         |     |            |          |   |
|-------------------------|-----|------------|----------|---|
| 1,2,3,4,6,7,8-HpCDD-13C | 75% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,4,6,7,8-HpCDF-13C | 81% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,4,7,8,9-HpCDF-13C | 70% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,4,7,8-HxCDD-13C   | 75% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,4,7,8-HxCDF-13C   | 83% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,4-TCDD-13C        | 18% | 40.0-135.0 | 03/01/24 | P |
| 1,2,3,6,7,8-HxCDD-13C   | 84% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,6,7,8-HxCDF-13C   | 90% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,7,8,9-HxCDD-13C   | 17% | 40.0-135.0 | 03/01/24 | P |
| 1,2,3,7,8,9-HxCDF-13C   | 81% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,7,8-PeCDD-13C     | 78% | 40.0-135.0 | 03/01/24 |   |
| 1,2,3,7,8-PeCDF-13C     | 70% | 40.0-135.0 | 03/01/24 |   |

Encina Wastewater Authority  
6200 Avenida Encinas  
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**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Sample Results PACE-MN

(Continued)

Sample: Encina Influent  
4B09033-01 (Water)

Sampled: 02/08/24 8:21 by S. Nguyen  
(Continued)

| Analyte                                                             | Result | MDL | MRL        | Units | Dil | Analyzed | Qualifier |
|---------------------------------------------------------------------|--------|-----|------------|-------|-----|----------|-----------|
| <b>Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)</b> |        |     |            |       |     |          |           |
| 2,3,4,6,7,8-HxCDF-13C .....                                         | 85%    |     | 40.0-135.0 |       |     | 03/01/24 |           |
| 2,3,4,7,8-PeCDF-13C .....                                           | 72%    |     | 40.0-135.0 |       |     | 03/01/24 |           |
| 2,3,7,8-TCDD-13C .....                                              | 53%    |     | 40.0-135.0 |       |     | 03/01/24 |           |
| 2,3,7,8-TCDD-37Cl4 .....                                            | 69%    |     | 40.0-135.0 |       |     | 03/01/24 |           |
| 2,3,7,8-TCDF-13C .....                                              | 62%    |     | 40.0-135.0 |       |     | 03/01/24 |           |
| OCDD-13C .....                                                      | 83%    |     | 40.0-135.0 |       |     | 03/01/24 |           |

Encina Wastewater Authority  
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Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Quality Control Results

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|---------|--------|-----|-------|-------------|---------------|------|-------|-----|-------|-----------|
|---------|--------|-----|-------|-------------|---------------|------|-------|-----|-------|-----------|

**Batch: 37129 - SW8290**

#### BLK (BLANK-111366)

**Prepared: 02/28/24 Analyzed: 03/01/24**

|                     |    |     |      |
|---------------------|----|-----|------|
| 1,2,3,4,6,7,8-HpCDD | ND | 51  | pg/L |
| 1,2,3,4,6,7,8-HpCDF | ND | 51  | pg/L |
| 1,2,3,4,7,8,9-HpCDF | ND | 51  | pg/L |
| 1,2,3,4,7,8-HxCDD   | ND | 51  | pg/L |
| 1,2,3,4,7,8-HxCDF   | ND | 51  | pg/L |
| 1,2,3,6,7,8-HxCDD   | ND | 51  | pg/L |
| 1,2,3,6,7,8-HxCDF   | ND | 51  | pg/L |
| 1,2,3,7,8,9-HxCDD   | ND | 51  | pg/L |
| 1,2,3,7,8,9-HxCDF   | ND | 51  | pg/L |
| 1,2,3,7,8-PeCDD     | ND | 51  | pg/L |
| 1,2,3,7,8-PeCDF     | ND | 51  | pg/L |
| 2,3,4,6,7,8-HxCDF   | ND | 51  | pg/L |
| 2,3,4,7,8-PeCDF     | ND | 51  | pg/L |
| 2,3,7,8-TCDD        | ND | 10  | pg/L |
| 2,3,7,8-TCDF        | ND | 10  | pg/L |
| OCDD                | ND | 100 | pg/L |
| OCDF                | ND | 100 | pg/L |
| Total HpCDD         | ND | 51  | pg/L |
| Total HpCDF         | ND | 51  | pg/L |
| Total HxCDD         | ND | 51  | pg/L |
| Total HxCDF         | ND | 51  | pg/L |
| Total PeCDD         | ND | 51  | pg/L |
| Total PeCDF         | ND | 51  | pg/L |
| Total TCDD          | ND | 10  | pg/L |
| Total TCDF          | ND | 10  | pg/L |

#### Surrogate(s)

|                         |      |      |      |     |            |
|-------------------------|------|------|------|-----|------------|
| 1,2,3,4,6,7,8-HpCDD-13C | 2000 | pg/L | 2000 | 99  | 40.0-135.0 |
| 1,2,3,4,6,7,8-HpCDF-13C | 1800 | pg/L | 2000 | 88  | 40.0-135.0 |
| 1,2,3,4,7,8,9-HpCDF-13C | 2000 | pg/L | 2000 | 99  | 40.0-135.0 |
| 1,2,3,4,7,8-HxCDD-13C   | 1800 | pg/L | 2000 | 89  | 40.0-135.0 |
| 1,2,3,4,7,8-HxCDF-13C   | 2100 | pg/L | 2000 | 102 | 40.0-135.0 |
| 1,2,3,6,7,8-HxCDD-13C   | 2100 | pg/L | 2000 | 104 | 40.0-135.0 |
| 1,2,3,6,7,8-HxCDF-13C   | 2400 | pg/L | 2000 | 116 | 40.0-135.0 |
| 1,2,3,7,8,9-HxCDF-13C   | 2100 | pg/L | 2000 | 102 | 40.0-135.0 |
| 1,2,3,7,8-PeCDD-13C     | 2600 | pg/L | 2000 | 127 | 40.0-135.0 |
| 1,2,3,7,8-PeCDF-13C     | 2900 | pg/L | 2000 | 143 | 40.0-135.0 |
| 2,3,4,6,7,8-HxCDF-13C   | 2100 | pg/L | 2000 | 104 | 40.0-135.0 |
| 2,3,4,7,8-PeCDF-13C     | 2400 | pg/L | 2000 | 118 | 40.0-135.0 |
| 2,3,7,8-TCDD-13C        | 1900 | pg/L | 2000 | 92  | 40.0-135.0 |

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**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                           | Result | MRL                | Units | Spike Level                           | Source Result | %REC Limits    | RPD | Limit | Qualifier |
|-----------------------------------|--------|--------------------|-------|---------------------------------------|---------------|----------------|-----|-------|-----------|
| Batch: 37129 - SW8290 (Continued) |        |                    |       |                                       |               |                |     |       |           |
| BLK (BLANK-111366)                |        |                    |       | Prepared: 02/28/24 Analyzed: 03/01/24 |               |                |     |       |           |
| Surrogate(s)                      |        |                    |       |                                       |               |                |     |       |           |
| 2,3,7,8-TCDF-13C                  | 2100   |                    | pg/L  | 2000                                  |               | 104 40.0-135.0 |     |       |           |
| OCDD-13C                          | 2900   |                    | pg/L  | 4100                                  |               | 72 40.0-135.0  |     |       |           |
| BS (LCS-111367)                   |        |                    |       | Prepared: 02/28/24 Analyzed: 03/01/24 |               |                |     |       |           |
| 1,2,3,4,6,7,8-HpCDD               | 920    | 52                 | pg/L  | 1000                                  |               | 89 70.0-130.0  |     |       |           |
| 1,2,3,4,6,7,8-HpCDF               | 1000   | 52                 | pg/L  | 1000                                  |               | 98 70.0-130.0  |     |       |           |
| 1,2,3,4,7,8,9-HpCDF               | 1000   | 52                 | pg/L  | 1000                                  |               | 97 70.0-130.0  |     |       |           |
| 1,2,3,4,7,8-HxCDD                 | 1000   | 52                 | pg/L  | 1000                                  |               | 100 70.0-130.0 |     |       |           |
| 1,2,3,4,7,8-HxCDF                 | 980    | 52                 | pg/L  | 1000                                  |               | 94 70.0-130.0  |     |       |           |
| 1,2,3,6,7,8-HxCDD                 | 950    | 52                 | pg/L  | 1000                                  |               | 92 70.0-130.0  |     |       |           |
| 1,2,3,6,7,8-HxCDF                 | 1000   | 52                 | pg/L  | 1000                                  |               | 99 70.0-130.0  |     |       |           |
| 1,2,3,7,8,9-HxCDD                 | 1100   | 52                 | pg/L  | 1000                                  |               | 106 70.0-130.0 |     |       |           |
| 1,2,3,7,8,9-HxCDF                 | 970    | 52                 | pg/L  | 1000                                  |               | 94 70.0-130.0  |     |       |           |
| 1,2,3,7,8-PeCDD                   | 880    | 52                 | pg/L  | 1000                                  |               | 85 70.0-130.0  |     |       |           |
| 1,2,3,7,8-PeCDF                   | 950    | 52                 | pg/L  | 1000                                  |               | 91 70.0-130.0  |     |       |           |
| 2,3,4,6,7,8-HxCDF                 | 960    | 52                 | pg/L  | 1000                                  |               | 93 70.0-130.0  |     |       |           |
| 2,3,4,7,8-PeCDF                   | 950    | 52                 | pg/L  | 1000                                  |               | 92 70.0-130.0  |     |       |           |
| 2,3,7,8-TCDD                      | 200    | 10                 | pg/L  | 210                                   |               | 96 70.0-130.0  |     |       |           |
| 2,3,7,8-TCDF                      | 190    | 10                 | pg/L  | 210                                   |               | 94 70.0-130.0  |     |       |           |
| OCDD                              | 2100   | 100                | pg/L  | 2100                                  |               | 100 70.0-130.0 |     |       |           |
| OCDF                              | 2000   | 100                | pg/L  | 2100                                  |               | 95 70.0-130.0  |     |       |           |
| Surrogate(s)                      |        |                    |       |                                       |               |                |     |       |           |
| 1,2,3,4,6,7,8-HpCDD-13C           | 2200   |                    | pg/L  | 2100                                  |               | 104 40.0-135.0 |     |       |           |
| 1,2,3,4,6,7,8-HpCDF-13C           | 1600   |                    | pg/L  | 2100                                  |               | 79 40.0-135.0  |     |       |           |
| 1,2,3,4,7,8,9-HpCDF-13C           | 1900   |                    | pg/L  | 2100                                  |               | 90 40.0-135.0  |     |       |           |
| 1,2,3,4,7,8-HxCDD-13C             | 1500   |                    | pg/L  | 2100                                  |               | 73 40.0-135.0  |     |       |           |
| 1,2,3,4,7,8-HxCDF-13C             | 1800   |                    | pg/L  | 2100                                  |               | 85 40.0-135.0  |     |       |           |
| 1,2,3,6,7,8-HxCDD-13C             | 1900   |                    | pg/L  | 2100                                  |               | 90 40.0-135.0  |     |       |           |
| 1,2,3,6,7,8-HxCDF-13C             | 2000   |                    | pg/L  | 2100                                  |               | 95 40.0-135.0  |     |       |           |
| 1,2,3,7,8,9-HxCDF-13C             | 1800   |                    | pg/L  | 2100                                  |               | 86 40.0-135.0  |     |       |           |
| 1,2,3,7,8-PeCDD-13C               | 2300   |                    | pg/L  | 2100                                  |               | 112 40.0-135.0 |     |       |           |
| 1,2,3,7,8-PeCDF-13C               | 2400   |                    | pg/L  | 2100                                  |               | 114 40.0-135.0 |     |       |           |
| 2,3,4,6,7,8-HxCDF-13C             | 1800   |                    | pg/L  | 2100                                  |               | 87 40.0-135.0  |     |       |           |
| 2,3,4,7,8-PeCDF-13C               | 2100   |                    | pg/L  | 2100                                  |               | 99 40.0-135.0  |     |       |           |
| 2,3,7,8-TCDD-13C                  | 1600   |                    | pg/L  | 2100                                  |               | 77 40.0-135.0  |     |       |           |
| 2,3,7,8-TCDF-13C                  | 2000   |                    | pg/L  | 2100                                  |               | 97 40.0-135.0  |     |       |           |
| OCDD-13C                          | 3000   |                    | pg/L  | 4100                                  |               | 72 40.0-135.0  |     |       |           |
| LCSD (LCSD-111368)                |        | Source: LCS-111367 |       | Prepared: 02/28/24 Analyzed: 03/01/24 |               |                |     |       |           |
| 1,2,3,4,6,7,8-HpCDD               | 860    | 51                 | pg/L  | 1000                                  | 920           | 84 70.0-130.0  | 6.5 | 20.0  |           |

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## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                                  | Result | MRL | Units                     | Spike Level | Source Result             | %REC | Limit                     | RPD  | Limit | Qualifier |
|------------------------------------------|--------|-----|---------------------------|-------------|---------------------------|------|---------------------------|------|-------|-----------|
| <b>Batch: 37129 - SW8290 (Continued)</b> |        |     |                           |             |                           |      |                           |      |       |           |
| <b>LCSD (LCSD-111368)</b>                |        |     | <b>Source: LCS-111367</b> |             | <b>Prepared: 02/28/24</b> |      | <b>Analyzed: 03/01/24</b> |      |       |           |
| 1,2,3,4,6,7,8-HpCDF                      | 980    | 51  | pg/L                      | 1000        | 1000                      | 95   | 70.0-130.0                | 2.5  | 20.0  |           |
| 1,2,3,4,7,8,9-HpCDF                      | 940    | 51  | pg/L                      | 1000        | 1000                      | 91   | 70.0-130.0                | 5.7  | 20.0  |           |
| 1,2,3,4,7,8-HxCDD                        | 1000   | 51  | pg/L                      | 1000        | 1000                      | 97   | 70.0-130.0                | 2.9  | 20.0  |           |
| 1,2,3,4,7,8-HxCDF                        | 910    | 51  | pg/L                      | 1000        | 980                       | 89   | 70.0-130.0                | 6.3  | 20.0  |           |
| 1,2,3,6,7,8-HxCDD                        | 910    | 51  | pg/L                      | 1000        | 950                       | 88   | 70.0-130.0                | 4.1  | 20.0  |           |
| 1,2,3,6,7,8-HxCDF                        | 950    | 51  | pg/L                      | 1000        | 1000                      | 93   | 70.0-130.0                | 6.8  | 20.0  |           |
| 1,2,3,7,8,9-HxCDD                        | 1000   | 51  | pg/L                      | 1000        | 1100                      | 102  | 70.0-130.0                | 4.5  | 20.0  |           |
| 1,2,3,7,8,9-HxCDF                        | 950    | 51  | pg/L                      | 1000        | 970                       | 92   | 70.0-130.0                | 2.0  | 20.0  |           |
| 1,2,3,7,8-PeCDD                          | 830    | 51  | pg/L                      | 1000        | 880                       | 81   | 70.0-130.0                | 5.9  | 20.0  |           |
| 1,2,3,7,8-PeCDF                          | 880    | 51  | pg/L                      | 1000        | 950                       | 86   | 70.0-130.0                | 6.4  | 20.0  |           |
| 2,3,4,6,7,8-HxCDF                        | 940    | 51  | pg/L                      | 1000        | 960                       | 91   | 70.0-130.0                | 1.9  | 20.0  |           |
| 2,3,4,7,8-PeCDF                          | 910    | 51  | pg/L                      | 1000        | 950                       | 89   | 70.0-130.0                | 3.7  | 20.0  |           |
| 2,3,7,8-TCDD                             | 190    | 10  | pg/L                      | 210         | 200                       | 90   | 70.0-130.0                | 6.9  | 20.0  |           |
| 2,3,7,8-TCDF                             | 170    | 10  | pg/L                      | 210         | 190                       | 84   | 70.0-130.0                | 11.1 | 20.0  |           |
| OCDD                                     | 2000   | 100 | pg/L                      | 2100        | 2100                      | 96   | 70.0-130.0                | 4.0  | 20.0  |           |
| OCDF                                     | 1800   | 100 | pg/L                      | 2100        | 2000                      | 88   | 70.0-130.0                | 8.3  | 20.0  |           |
| <i>Surrogate(s)</i>                      |        |     |                           |             |                           |      |                           |      |       |           |
| 1,2,3,4,6,7,8-HpCDD-13C                  | 1900   |     | pg/L                      | 2100        |                           | 91   | 40.0-135.0                |      |       |           |
| 1,2,3,4,6,7,8-HpCDF-13C                  | 1500   |     | pg/L                      | 2100        |                           | 75   | 40.0-135.0                |      |       |           |
| 1,2,3,4,7,8,9-HpCDF-13C                  | 1700   |     | pg/L                      | 2100        |                           | 83   | 40.0-135.0                |      |       |           |
| 1,2,3,4,7,8-HxCDD-13C                    | 1500   |     | pg/L                      | 2100        |                           | 75   | 40.0-135.0                |      |       |           |
| 1,2,3,4,7,8-HxCDF-13C                    | 1800   |     | pg/L                      | 2100        |                           | 87   | 40.0-135.0                |      |       |           |
| 1,2,3,6,7,8-HxCDD-13C                    | 1800   |     | pg/L                      | 2100        |                           | 89   | 40.0-135.0                |      |       |           |
| 1,2,3,6,7,8-HxCDF-13C                    | 2000   |     | pg/L                      | 2100        |                           | 96   | 40.0-135.0                |      |       |           |
| 1,2,3,7,8,9-HxCDF-13C                    | 1800   |     | pg/L                      | 2100        |                           | 86   | 40.0-135.0                |      |       |           |
| 1,2,3,7,8-PeCDD-13C                      | 2300   |     | pg/L                      | 2100        |                           | 112  | 40.0-135.0                |      |       |           |
| 1,2,3,7,8-PeCDF-13C                      | 2400   |     | pg/L                      | 2100        |                           | 117  | 40.0-135.0                |      |       |           |
| 2,3,4,6,7,8-HxCDF-13C                    | 1800   |     | pg/L                      | 2100        |                           | 88   | 40.0-135.0                |      |       |           |
| 2,3,4,7,8-PeCDF-13C                      | 2000   |     | pg/L                      | 2100        |                           | 100  | 40.0-135.0                |      |       |           |
| 2,3,7,8-TCDD-13C                         | 1800   |     | pg/L                      | 2100        |                           | 85   | 40.0-135.0                |      |       |           |
| 2,3,7,8-TCDF-13C                         | 2000   |     | pg/L                      | 2100        |                           | 99   | 40.0-135.0                |      |       |           |
| OCDD-13C                                 | 2600   |     | pg/L                      | 4100        |                           | 64   | 40.0-135.0                |      |       |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS

| Analyte                           | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|-----------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|-------|-----|-------|-----------|
| <b>Batch: W4B0965 - EPA 625.1</b> |        |     |       |                                              |               |      |       |     |       |           |
| <b>Blank (W4B0965-BLK1)</b>       |        |     |       | <b>Prepared: 02/13/24 Analyzed: 02/28/24</b> |               |      |       |     |       |           |
| 1,2,4-Trichlorobenzene            | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 1,2-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 1,2-Diphenylhydrazine/Azobenzene  | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 1,3-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 1,4-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2,4,6-Trichlorophenol             | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2,4-Dichlorophenol                | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2,4-Dimethylphenol                | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2,4-Dinitrophenol                 | ND     | 10  | ug/l  |                                              |               |      |       |     |       |           |
| 2,4-Dinitrotoluene                | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2,6-Dinitrotoluene                | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2-Chloronaphthalene               | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2-Chlorophenol                    | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2-Methyl-4,6-dinitrophenol        | ND     | 5.0 | ug/l  |                                              |               |      |       |     |       |           |
| 2-Nitrophenol                     | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 3,3'-Dichlorobenzidine            | ND     | 5.0 | ug/l  |                                              |               |      |       |     |       |           |
| 4-Bromophenyl phenyl ether        | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 4-Chloro-3-methylphenol           | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 4-Chlorophenyl phenyl ether       | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| 4-Nitrophenol                     | ND     | 5.0 | ug/l  |                                              |               |      |       |     |       |           |
| Acenaphthene                      | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Acenaphthylene                    | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Anthracene                        | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Benzidine                         | ND     | 10  | ug/l  |                                              |               |      |       |     |       |           |
| Benzo (a) anthracene              | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Benzo (a) pyrene                  | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Benzo (b) fluoranthene            | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Benzo (g,h,i) perylene            | ND     | 2.0 | ug/l  |                                              |               |      |       |     |       |           |
| Benzo (k) fluoranthene            | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Bis(2-chloroethoxy)methane        | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Bis(2-chloroethyl)ether           | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Bis(2-chloroisopropyl)ether       | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Bis(2-ethylhexyl)phthalate        | ND     | 5.0 | ug/l  |                                              |               |      |       |     |       |           |
| Butyl benzyl phthalate            | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Chrysene                          | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Dibenzo (a,h) anthracene          | ND     | 2.0 | ug/l  |                                              |               |      |       |     |       |           |
| Diethyl phthalate                 | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Dimethyl phthalate                | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |
| Di-n-butyl phthalate              | ND     | 1.0 | ug/l  |                                              |               |      |       |     |       |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits  | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-----------|-----------|
| <b>Batch: W4B0965 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |           |           |
| <b>Blank (W4B0965-BLK1)</b>                   |        |     |       | <b>Prepared: 02/13/24 Analyzed: 02/28/24</b> |               |      |         |     |           |           |
| Di-n-octyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Fluoranthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Fluorene                                      | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachlorobenzene                             | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachlorobutadiene                           | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachlorocyclopentadiene                     | ND     | 5.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachloroethane                              | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Indeno (1,2,3-cd) pyrene                      | ND     | 2.0 | ug/l  |                                              |               |      |         |     |           |           |
| Isophorone                                    | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Naphthalene                                   | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Nitrobenzene                                  | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| N-Nitrosodimethylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| N-Nitrosodi-n-propylamine                     | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| N-Nitrosodiphenylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Pentachlorophenol                             | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Phenanthrene                                  | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Phenol                                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Pyrene                                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |           |           |
| 2,4,6-Tribromophenol                          | 32.2   |     | ug/l  | 40.0                                         |               | 81   | 25-120  |     |           |           |
| 2-Fluorobiphenyl                              | 15.9   |     | ug/l  | 20.0                                         |               | 79   | 22-120  |     |           |           |
| 2-Fluorophenol                                | 24.8   |     | ug/l  | 40.0                                         |               | 62   | 17-120  |     |           |           |
| Nitrobenzene-d5                               | 19.2   |     | ug/l  | 20.0                                         |               | 96   | 47-120  |     |           |           |
| Phenol-d5                                     | 14.4   |     | ug/l  | 40.0                                         |               | 36   | 12-120  |     |           |           |
| Terphenyl-d14                                 | 21.2   |     | ug/l  | 20.0                                         |               | 106  | 44-129  |     |           |           |
| <b>LCS (W4B0965-BS1)</b>                      |        |     |       | <b>Prepared: 02/13/24 Analyzed: 02/28/24</b> |               |      |         |     |           |           |
| 1,2,4-Trichlorobenzene                        | 13.7   | 1.0 | ug/l  | 20.0                                         |               | 68   | 57-130  |     |           |           |
| 1,2-Dichlorobenzene                           | 15.1   | 1.0 | ug/l  | 20.0                                         |               | 76   | 57-120  |     |           |           |
| 1,3-Dichlorobenzene                           | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 72   | 55-120  |     |           |           |
| 1,4-Dichlorobenzene                           | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79   | 55-120  |     |           |           |
| 2,4,6-Trichlorophenol                         | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 77   | 52-129  |     |           |           |
| 2,4-Dichlorophenol                            | 15.1   | 1.0 | ug/l  | 20.0                                         |               | 75   | 53-122  |     |           |           |
| 2,4-Dimethylphenol                            | 13.7   | 1.0 | ug/l  | 20.0                                         |               | 69   | 42-120  |     |           |           |
| 2,4-Dinitrophenol                             | 18.1   | 10  | ug/l  | 20.0                                         |               | 90   | 0.1-173 |     |           |           |
| 2,4-Dinitrotoluene                            | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85   | 48-127  |     |           |           |
| 2,6-Dinitrotoluene                            | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75   | 68-137  |     |           |           |
| 2-Chloronaphthalene                           | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 73   | 65-120  |     |           |           |
| 2-Chlorophenol                                | 13.6   | 1.0 | ug/l  | 20.0                                         |               | 68   | 36-120  |     |           |           |
| 2-Methyl-4,6-dinitrophenol                    | 17.1   | 5.0 | ug/l  | 20.0                                         |               | 85   | 53-130  |     |           |           |

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**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4B0965 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |       |           |
| <b>LCS (W4B0965-BS1)</b>                      |        |     |       | <b>Prepared: 02/13/24 Analyzed: 02/28/24</b> |               |      |         |     |       |           |
| 2-Nitrophenol                                 | 15.7   | 1.0 | ug/l  | 20.0                                         |               | 79   | 45-167  |     |       |           |
| 3,3'-Dichlorobenzidine                        | 6.86   | 5.0 | ug/l  | 20.0                                         |               | 34   | 8-213   |     |       |           |
| 4-Bromophenyl phenyl ether                    | 14.8   | 1.0 | ug/l  | 20.0                                         |               | 74   | 65-120  |     |       |           |
| 4-Chloro-3-methylphenol                       | 14.8   | 1.0 | ug/l  | 20.0                                         |               | 74   | 41-128  |     |       |           |
| 4-Chlorophenyl phenyl ether                   | 13.5   | 1.0 | ug/l  | 20.0                                         |               | 67   | 38-145  |     |       |           |
| 4-Nitrophenol                                 | 6.31   | 5.0 | ug/l  | 20.0                                         |               | 32   | 13-129  |     |       |           |
| Acenaphthene                                  | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 78   | 60-132  |     |       |           |
| Acenaphthylene                                | 14.9   | 1.0 | ug/l  | 20.0                                         |               | 75   | 54-126  |     |       |           |
| Anthracene                                    | 17.2   | 1.0 | ug/l  | 20.0                                         |               | 86   | 43-120  |     |       |           |
| Benzo (a) anthracene                          | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 42-133  |     |       |           |
| Benzo (a) pyrene                              | 19.4   | 1.0 | ug/l  | 20.0                                         |               | 97   | 32-148  |     |       |           |
| Benzo (b) fluoranthene                        | 20.0   | 1.0 | ug/l  | 20.0                                         |               | 100  | 42-140  |     |       | AN-IP     |
| Benzo (g,h,i) perylene                        | 21.0   | 2.0 | ug/l  | 20.0                                         |               | 105  | 0.1-195 |     |       |           |
| Benzo (k) fluoranthene                        | 19.0   | 1.0 | ug/l  | 20.0                                         |               | 95   | 25-146  |     |       | AN-IP     |
| Bis(2-chloroethoxy)methane                    | 16.1   | 1.0 | ug/l  | 20.0                                         |               | 80   | 49-165  |     |       |           |
| Bis(2-chloroethyl)ether                       | 13.4   | 1.0 | ug/l  | 20.0                                         |               | 67   | 43-126  |     |       |           |
| Bis(2-chloroisopropyl)ether                   | 17.2   | 1.0 | ug/l  | 20.0                                         |               | 86   | 63-139  |     |       |           |
| Bis(2-ethylhexyl)phthalate                    | 21.4   | 5.0 | ug/l  | 20.0                                         |               | 107  | 29-137  |     |       |           |
| Butyl benzyl phthalate                        | 22.6   | 1.0 | ug/l  | 20.0                                         |               | 113  | 0.1-140 |     |       |           |
| Chrysene                                      | 18.6   | 1.0 | ug/l  | 20.0                                         |               | 93   | 44-140  |     |       |           |
| Dibenzo (a,h) anthracene                      | 16.4   | 2.0 | ug/l  | 20.0                                         |               | 82   | 0.1-200 |     |       |           |
| Diethyl phthalate                             | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 82   | 0.1-120 |     |       |           |
| Dimethyl phthalate                            | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 73   | 0.1-120 |     |       |           |
| Di-n-butyl phthalate                          | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 91   | 8-120   |     |       |           |
| Di-n-octyl phthalate                          | 21.7   | 1.0 | ug/l  | 20.0                                         |               | 108  | 19-132  |     |       |           |
| Fluoranthene                                  | 20.0   | 1.0 | ug/l  | 20.0                                         |               | 100  | 43-121  |     |       |           |
| Fluorene                                      | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 70-120  |     |       |           |
| Hexachlorobenzene                             | 15.2   | 1.0 | ug/l  | 20.0                                         |               | 76   | 8-142   |     |       |           |
| Hexachlorobutadiene                           | 14.2   | 1.0 | ug/l  | 20.0                                         |               | 71   | 38-120  |     |       |           |
| Hexachlorocyclopentadiene                     | 11.3   | 5.0 | ug/l  | 20.0                                         |               | 57   | 10-120  |     |       |           |
| Hexachloroethane                              | 14.6   | 1.0 | ug/l  | 20.0                                         |               | 73   | 55-120  |     |       |           |
| Indeno (1,2,3-cd) pyrene                      | 17.1   | 2.0 | ug/l  | 20.0                                         |               | 85   | 0.1-151 |     |       |           |
| Isophorone                                    | 13.3   | 1.0 | ug/l  | 20.0                                         |               | 66   | 47-180  |     |       |           |
| Naphthalene                                   | 14.6   | 1.0 | ug/l  | 20.0                                         |               | 73   | 36-120  |     |       |           |
| Nitrobenzene                                  | 16.1   | 1.0 | ug/l  | 20.0                                         |               | 81   | 54-158  |     |       |           |
| N-Nitrosodimethylamine                        | 7.97   | 1.0 | ug/l  | 20.0                                         |               | 40   | 22-120  |     |       |           |
| N-Nitrosodi-n-propylamine                     | 16.2   | 1.0 | ug/l  | 20.0                                         |               | 81   | 14-198  |     |       |           |
| N-Nitrosodiphenylamine                        | 13.2   | 1.0 | ug/l  | 20.0                                         |               | 66   | 47-120  |     |       |           |
| Pentachlorophenol                             | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 78   | 41-120  |     |       |           |



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Pollutant Scan  
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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                                     | Source Result | %REC | Limit   | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|-----------------------------------------------------------------|---------------|------|---------|-----|-----------|-----------|
| <b>Batch: W4B0965 - EPA 625.1 (Continued)</b> |        |     |       |                                                                 |               |      |         |     |           |           |
| <b>LCS (W4B0965-BS1)</b>                      |        |     |       | <b>Prepared: 02/13/24 Analyzed: 02/28/24</b>                    |               |      |         |     |           |           |
| Phenanthrene                                  | 18.0   | 1.0 | ug/l  | 20.0                                                            |               | 90   | 65-120  |     |           |           |
| Phenol                                        | 5.69   | 1.0 | ug/l  | 20.0                                                            |               | 28   | 17-120  |     |           |           |
| Pyrene                                        | 20.2   | 1.0 | ug/l  | 20.0                                                            |               | 101  | 70-120  |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                                                 |               |      |         |     |           |           |
| 2,4,6-Tribromophenol                          | 31.6   |     | ug/l  | 40.0                                                            |               | 79   | 25-120  |     |           |           |
| 2-Fluorobiphenyl                              | 13.9   |     | ug/l  | 20.0                                                            |               | 70   | 22-120  |     |           |           |
| 2-Fluorophenol                                | 19.2   |     | ug/l  | 40.0                                                            |               | 48   | 17-120  |     |           |           |
| Nitrobenzene-d5                               | 15.5   |     | ug/l  | 20.0                                                            |               | 77   | 47-120  |     |           |           |
| Phenol-d5                                     | 11.9   |     | ug/l  | 40.0                                                            |               | 30   | 12-120  |     |           |           |
| Terphenyl-d14                                 | 21.0   |     | ug/l  | 20.0                                                            |               | 105  | 44-129  |     |           |           |
| <b>Matrix Spike (W4B0965-MS1)</b>             |        |     |       | <b>Source: 4A22028-03 Prepared: 02/13/24 Analyzed: 02/28/24</b> |               |      |         |     |           |           |
| 1,2,4-Trichlorobenzene                        | 12.9   | 1.0 | ug/l  | 19.1                                                            | ND            | 68   | 44-142  |     |           |           |
| 1,2-Dichlorobenzene                           | 14.6   | 1.0 | ug/l  | 19.1                                                            | ND            | 76   | 51-120  |     |           |           |
| 1,3-Dichlorobenzene                           | 13.6   | 1.0 | ug/l  | 19.1                                                            | ND            | 71   | 37-120  |     |           |           |
| 1,4-Dichlorobenzene                           | 14.8   | 1.0 | ug/l  | 19.1                                                            | ND            | 78   | 39-120  |     |           |           |
| 2,4,6-Trichlorophenol                         | 11.4   | 1.0 | ug/l  | 19.1                                                            | ND            | 60   | 37-144  |     |           |           |
| 2,4-Dichlorophenol                            | 12.6   | 1.0 | ug/l  | 19.1                                                            | ND            | 66   | 39-135  |     |           |           |
| 2,4-Dimethylphenol                            | 1.94   | 1.0 | ug/l  | 19.1                                                            | ND            | 10   | 32-120  |     |           | MS-01     |
| 2,4-Dinitrophenol                             | 13.1   | 10  | ug/l  | 19.1                                                            | ND            | 68   | 0.1-191 |     |           |           |
| 2,4-Dinitrotoluene                            | 14.7   | 1.0 | ug/l  | 19.1                                                            | ND            | 77   | 39-139  |     |           |           |
| 2,6-Dinitrotoluene                            | 13.8   | 1.0 | ug/l  | 19.1                                                            | ND            | 73   | 50-158  |     |           |           |
| 2-Chloronaphthalene                           | 13.6   | 1.0 | ug/l  | 19.1                                                            | ND            | 71   | 60-120  |     |           |           |
| 2-Chlorophenol                                | 11.9   | 1.0 | ug/l  | 19.1                                                            | ND            | 62   | 23-134  |     |           |           |
| 2-Methyl-4,6-dinitrophenol                    | 12.5   | 5.0 | ug/l  | 19.1                                                            | ND            | 66   | 0.1-181 |     |           |           |
| 2-Nitrophenol                                 | 13.6   | 1.0 | ug/l  | 19.1                                                            | ND            | 71   | 29-182  |     |           |           |
| 3,3'-Dichlorobenzidine                        | ND     | 5.0 | ug/l  | 19.1                                                            | ND            |      | 0.1-262 |     |           | MS-01     |
| 4-Bromophenyl phenyl ether                    | 13.7   | 1.0 | ug/l  | 19.1                                                            | ND            | 72   | 53-127  |     |           |           |
| 4-Chloro-3-methylphenol                       | 8.01   | 1.0 | ug/l  | 19.1                                                            | ND            | 42   | 22-147  |     |           |           |
| 4-Chlorophenyl phenyl ether                   | 12.9   | 1.0 | ug/l  | 19.1                                                            | ND            | 68   | 25-158  |     |           |           |
| 4-Nitrophenol                                 | 4.30   | 5.0 | ug/l  | 19.1                                                            | ND            | 23   | 0.1-132 |     |           |           |
| Acenaphthene                                  | 6.03   | 1.0 | ug/l  | 19.1                                                            | ND            | 32   | 47-145  |     |           | MS-01     |
| Acenaphthylene                                | 0.576  | 1.0 | ug/l  | 19.1                                                            | ND            | 3    | 33-145  |     |           | MS-01     |
| Anthracene                                    | 0.109  | 1.0 | ug/l  | 19.1                                                            | ND            | 0.6  | 27-133  |     |           | MS-01     |
| Benzo (a) anthracene                          | 2.74   | 1.0 | ug/l  | 19.1                                                            | ND            | 14   | 33-143  |     |           | MS-01     |
| Benzo (a) pyrene                              | ND     | 1.0 | ug/l  | 19.1                                                            | ND            |      | 17-163  |     |           | MS-01     |
| Benzo (b) fluoranthene                        | 17.6   | 1.0 | ug/l  | 19.1                                                            | ND            | 92   | 24-159  |     |           | AN-IP     |
| Benzo (g,h,i) perylene                        | 10.3   | 2.0 | ug/l  | 19.1                                                            | ND            | 54   | 0.1-219 |     |           |           |
| Benzo (k) fluoranthene                        | 13.4   | 1.0 | ug/l  | 19.1                                                            | ND            | 70   | 11-162  |     |           | AN-IP     |
| Bis(2-chloroethoxy)methane                    | 16.5   | 1.0 | ug/l  | 19.1                                                            | ND            | 86   | 33-184  |     |           |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                                                                         | Result | MRL | Units | Spike Level | Source Result | %REC | Limit   | RPD  | Limit | Qualifier |
|-------------------------------------------------------------------------------------------------|--------|-----|-------|-------------|---------------|------|---------|------|-------|-----------|
| <b>Batch: W4B0965 - EPA 625.1 (Continued)</b>                                                   |        |     |       |             |               |      |         |      |       |           |
| <b>Matrix Spike (W4B0965-MS1) Source: 4A22028-03 Prepared: 02/13/24 Analyzed: 02/28/24</b>      |        |     |       |             |               |      |         |      |       |           |
| Bis(2-chloroethyl)ether                                                                         | 13.5   | 1.0 | ug/l  | 19.1        | ND            | 71   | 12-158  |      |       |           |
| Bis(2-chloroisopropyl)ether                                                                     | 17.9   | 1.0 | ug/l  | 19.1        | ND            | 94   | 36-166  |      |       |           |
| Bis(2-ethylhexyl)phthalate                                                                      | 18.3   | 5.0 | ug/l  | 19.1        | ND            | 96   | 8-158   |      |       |           |
| Butyl benzyl phthalate                                                                          | 19.6   | 1.0 | ug/l  | 19.1        | ND            | 103  | 0.1-152 |      |       |           |
| Chrysene                                                                                        | 15.1   | 1.0 | ug/l  | 19.1        | ND            | 79   | 17-168  |      |       |           |
| Dibenzo (a,h) anthracene                                                                        | 16.2   | 2.0 | ug/l  | 19.1        | ND            | 85   | 0.1-227 |      |       |           |
| Diethyl phthalate                                                                               | 14.8   | 1.0 | ug/l  | 19.1        | ND            | 78   | 0.1-120 |      |       |           |
| Dimethyl phthalate                                                                              | 14.8   | 1.0 | ug/l  | 19.1        | 1.04          | 72   | 0.1-120 |      |       |           |
| Di-n-butyl phthalate                                                                            | 16.1   | 1.0 | ug/l  | 19.1        | ND            | 84   | 1-120   |      |       |           |
| Di-n-octyl phthalate                                                                            | 18.3   | 1.0 | ug/l  | 19.1        | ND            | 96   | 4-146   |      |       |           |
| Fluoranthene                                                                                    | 17.4   | 1.0 | ug/l  | 19.1        | ND            | 91   | 26-137  |      |       |           |
| Fluorene                                                                                        | 14.4   | 1.0 | ug/l  | 19.1        | ND            | 75   | 59-121  |      |       |           |
| Hexachlorobenzene                                                                               | 13.8   | 1.0 | ug/l  | 19.1        | ND            | 72   | 0.1-152 |      |       |           |
| Hexachlorobutadiene                                                                             | 13.3   | 1.0 | ug/l  | 19.1        | ND            | 70   | 24-120  |      |       |           |
| Hexachlorocyclopentadiene                                                                       | 13.6   | 5.0 | ug/l  | 19.1        | ND            | 71   | 10-120  |      |       |           |
| Hexachloroethane                                                                                | 13.3   | 1.0 | ug/l  | 19.1        | ND            | 70   | 40-120  |      |       |           |
| Indeno (1,2,3-cd) pyrene                                                                        | 14.4   | 2.0 | ug/l  | 19.1        | ND            | 76   | 0.1-171 |      |       |           |
| Isophorone                                                                                      | 13.5   | 1.0 | ug/l  | 19.1        | ND            | 71   | 21-196  |      |       |           |
| Naphthalene                                                                                     | 14.4   | 1.0 | ug/l  | 19.1        | ND            | 76   | 21-133  |      |       |           |
| Nitrobenzene                                                                                    | 17.4   | 1.0 | ug/l  | 19.1        | ND            | 91   | 35-180  |      |       |           |
| N-Nitrosodimethylamine                                                                          | 11.3   | 1.0 | ug/l  | 19.1        | 3.38          | 41   | 18-120  |      |       |           |
| N-Nitrosodi-n-propylamine                                                                       | 16.7   | 1.0 | ug/l  | 19.1        | ND            | 87   | 0.1-230 |      |       |           |
| N-Nitrosodiphenylamine                                                                          | 0.204  | 1.0 | ug/l  | 19.1        | ND            | 100  | 49-120  |      |       | MS-01     |
| Pentachlorophenol                                                                               | 11.1   | 1.0 | ug/l  | 19.1        | ND            | 58   | 0.1-133 |      |       |           |
| Phenanthrene                                                                                    | 16.3   | 1.0 | ug/l  | 19.1        | ND            | 86   | 54-120  |      |       |           |
| Phenol                                                                                          | 2.68   | 1.0 | ug/l  | 19.1        | ND            | 14   | 5-120   |      |       |           |
| Pyrene                                                                                          | 10.3   | 1.0 | ug/l  | 19.1        | ND            | 54   | 52-120  |      |       |           |
| <b>Surrogate(s)</b>                                                                             |        |     |       |             |               |      |         |      |       |           |
| 2,4,6-Tribromophenol                                                                            | 21.8   |     | ug/l  | 38.2        |               | 57   | 25-120  |      |       |           |
| 2-Fluorobiphenyl                                                                                | 13.1   |     | ug/l  | 19.1        |               | 69   | 22-120  |      |       |           |
| 2-Fluorophenol                                                                                  | 13.2   |     | ug/l  | 38.2        |               | 35   | 17-120  |      |       |           |
| Nitrobenzene-d5                                                                                 | 15.8   |     | ug/l  | 19.1        |               | 83   | 47-120  |      |       |           |
| Phenol-d5                                                                                       | 4.74   |     | ug/l  | 38.2        |               | 12   | 12-120  |      |       |           |
| Terphenyl-d14                                                                                   | 16.2   |     | ug/l  | 19.1        |               | 85   | 44-129  |      |       |           |
| <b>Matrix Spike Dup (W4B0965-MSD1) Source: 4A22028-03 Prepared: 02/13/24 Analyzed: 02/28/24</b> |        |     |       |             |               |      |         |      |       |           |
| 1,2,4-Trichlorobenzene                                                                          | 12.9   | 1.0 | ug/l  | 19.3        | ND            | 67   | 44-142  | 0.5  | 30    |           |
| 1,2-Dichlorobenzene                                                                             | 14.6   | 1.0 | ug/l  | 19.3        | ND            | 76   | 51-120  | 0.09 | 30    |           |
| 1,3-Dichlorobenzene                                                                             | 13.5   | 1.0 | ug/l  | 19.3        | ND            | 70   | 37-120  | 0.9  | 30    |           |
| 1,4-Dichlorobenzene                                                                             | 14.7   | 1.0 | ug/l  | 19.3        | ND            | 76   | 39-120  | 0.5  | 30    |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                                                                         | Result | MRL | Units | Spike Level | Source Result | %REC | Limit   | RPD  | Limit | Qualifier   |
|-------------------------------------------------------------------------------------------------|--------|-----|-------|-------------|---------------|------|---------|------|-------|-------------|
| <b>Batch: W4B0965 - EPA 625.1 (Continued)</b>                                                   |        |     |       |             |               |      |         |      |       |             |
| <b>Matrix Spike Dup (W4B0965-MSD1) Source: 4A22028-03 Prepared: 02/13/24 Analyzed: 02/28/24</b> |        |     |       |             |               |      |         |      |       |             |
| 2,4,6-Trichlorophenol                                                                           | 8.94   | 1.0 | ug/l  | 19.3        | ND            | 46   | 37-144  | 24   | 30    |             |
| 2,4-Dichlorophenol                                                                              | 11.8   | 1.0 | ug/l  | 19.3        | ND            | 61   | 39-135  | 7    | 30    |             |
| 2,4-Dimethylphenol                                                                              | 1.73   | 1.0 | ug/l  | 19.3        | ND            | 9    | 32-120  | 11   | 30    | MS-01       |
| 2,4-Dinitrophenol                                                                               | 13.9   | 10  | ug/l  | 19.3        | ND            | 72   | 0.1-191 | 6    | 30    |             |
| 2,4-Dinitrotoluene                                                                              | 15.4   | 1.0 | ug/l  | 19.3        | ND            | 80   | 39-139  | 4    | 30    |             |
| 2,6-Dinitrotoluene                                                                              | 14.3   | 1.0 | ug/l  | 19.3        | ND            | 74   | 50-158  | 3    | 30    |             |
| 2-Chloronaphthalene                                                                             | 13.6   | 1.0 | ug/l  | 19.3        | ND            | 70   | 60-120  | 0.08 | 30    |             |
| 2-Chlorophenol                                                                                  | 11.4   | 1.0 | ug/l  | 19.3        | ND            | 59   | 23-134  | 4    | 30    |             |
| 2-Methyl-4,6-dinitrophenol                                                                      | 13.3   | 5.0 | ug/l  | 19.3        | ND            | 69   | 0.1-181 | 6    | 30    |             |
| 2-Nitrophenol                                                                                   | 13.9   | 1.0 | ug/l  | 19.3        | ND            | 72   | 29-182  | 2    | 30    |             |
| 3,3'-Dichlorobenzidine                                                                          | ND     | 5.0 | ug/l  | 19.3        | ND            |      | 0.1-262 |      | 30    | MS-01       |
| 4-Bromophenyl phenyl ether                                                                      | 13.7   | 1.0 | ug/l  | 19.3        | ND            | 71   | 53-127  | 0.3  | 30    |             |
| 4-Chloro-3-methylphenol                                                                         | 7.78   | 1.0 | ug/l  | 19.3        | ND            | 40   | 22-147  | 3    | 30    |             |
| 4-Chlorophenyl phenyl ether                                                                     | 13.2   | 1.0 | ug/l  | 19.3        | ND            | 69   | 25-158  | 3    | 30    |             |
| 4-Nitrophenol                                                                                   | 4.89   | 5.0 | ug/l  | 19.3        | ND            | 25   | 0.1-132 | 13   | 30    |             |
| Acenaphthene                                                                                    | 7.84   | 1.0 | ug/l  | 19.3        | ND            | 41   | 47-145  | 26   | 30    | MS-01       |
| Acenaphthylene                                                                                  | 0.516  | 1.0 | ug/l  | 19.3        | ND            | 3    | 33-145  | 11   | 30    | MS-01       |
| Anthracene                                                                                      | 0.117  | 1.0 | ug/l  | 19.3        | ND            | 0.6  | 27-133  | 200  | 30    | MS-01, R-03 |
| Benzo (a) anthracene                                                                            | 4.18   | 1.0 | ug/l  | 19.3        | ND            | 22   | 33-143  | 42   | 30    | MS-01, R-02 |
| Benzo (a) pyrene                                                                                | ND     | 1.0 | ug/l  | 19.3        | ND            |      | 17-163  |      | 30    | MS-01       |
| Benzo (b) fluoranthene                                                                          | 18.1   | 1.0 | ug/l  | 19.3        | ND            | 94   | 24-159  | 3    | 30    | AN-IP       |
| Benzo (g,h,i) perylene                                                                          | 11.0   | 2.0 | ug/l  | 19.3        | ND            | 57   | 0.1-219 | 6    | 30    |             |
| Benzo (k) fluoranthene                                                                          | 14.1   | 1.0 | ug/l  | 19.3        | ND            | 73   | 11-162  | 5    | 30    | AN-IP       |
| Bis(2-chloroethoxy)methane                                                                      | 17.0   | 1.0 | ug/l  | 19.3        | ND            | 88   | 33-184  | 3    | 30    |             |
| Bis(2-chloroethyl)ether                                                                         | 13.7   | 1.0 | ug/l  | 19.3        | ND            | 71   | 12-158  | 2    | 30    |             |
| Bis(2-chloroisopropyl)ether                                                                     | 18.4   | 1.0 | ug/l  | 19.3        | ND            | 95   | 36-166  | 3    | 30    |             |
| Bis(2-ethylhexyl)phthalate                                                                      | 18.2   | 5.0 | ug/l  | 19.3        | ND            | 94   | 8-158   | 0.9  | 30    |             |
| Butyl benzyl phthalate                                                                          | 19.9   | 1.0 | ug/l  | 19.3        | ND            | 103  | 0.1-152 | 1    | 30    |             |
| Chrysene                                                                                        | 15.9   | 1.0 | ug/l  | 19.3        | ND            | 83   | 17-168  | 6    | 30    |             |
| Dibenzo (a,h) anthracene                                                                        | 14.7   | 2.0 | ug/l  | 19.3        | ND            | 76   | 0.1-227 | 10   | 30    |             |
| Diethyl phthalate                                                                               | 15.2   | 1.0 | ug/l  | 19.3        | ND            | 79   | 0.1-120 | 2    | 30    |             |
| Dimethyl phthalate                                                                              | 14.9   | 1.0 | ug/l  | 19.3        | 1.04          | 72   | 0.1-120 | 0.5  | 30    |             |
| Di-n-butyl phthalate                                                                            | 16.3   | 1.0 | ug/l  | 19.3        | ND            | 85   | 1-120   | 1    | 30    |             |
| Di-n-octyl phthalate                                                                            | 18.8   | 1.0 | ug/l  | 19.3        | ND            | 97   | 4-146   | 3    | 30    |             |
| Fluoranthene                                                                                    | 17.4   | 1.0 | ug/l  | 19.3        | ND            | 90   | 26-137  | 0.4  | 30    |             |
| Fluorene                                                                                        | 14.7   | 1.0 | ug/l  | 19.3        | ND            | 76   | 59-121  | 2    | 30    |             |
| Hexachlorobenzene                                                                               | 14.2   | 1.0 | ug/l  | 19.3        | ND            | 74   | 0.1-152 | 3    | 30    |             |
| Hexachlorobutadiene                                                                             | 13.2   | 1.0 | ug/l  | 19.3        | ND            | 69   | 24-120  | 1    | 30    |             |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units                     | Spike Level | Source Result             | %REC | Limit                     | RPD | Limit | Qualifier      |
|-----------------------------------------------|--------|-----|---------------------------|-------------|---------------------------|------|---------------------------|-----|-------|----------------|
| <b>Batch: W4B0965 - EPA 625.1 (Continued)</b> |        |     |                           |             |                           |      |                           |     |       |                |
| <b>Matrix Spike Dup (W4B0965-MSD1)</b>        |        |     | <b>Source: 4A22028-03</b> |             | <b>Prepared: 02/13/24</b> |      | <b>Analyzed: 02/28/24</b> |     |       |                |
| Hexachlorocyclopentadiene                     | 13.5   | 5.0 | ug/l                      | 19.3        | ND                        | 70   | 10-120                    | 0.7 | 30    |                |
| Hexachloroethane                              | 13.3   | 1.0 | ug/l                      | 19.3        | ND                        | 69   | 40-120                    | 0.1 | 30    |                |
| Indeno (1,2,3-cd) pyrene                      | 13.8   | 2.0 | ug/l                      | 19.3        | ND                        | 72   | 0.1-171                   | 4   | 30    |                |
| Isophorone                                    | 13.9   | 1.0 | ug/l                      | 19.3        | ND                        | 72   | 21-196                    | 3   | 30    |                |
| Naphthalene                                   | 14.3   | 1.0 | ug/l                      | 19.3        | ND                        | 74   | 21-133                    | 1   | 30    |                |
| Nitrobenzene                                  | 17.9   | 1.0 | ug/l                      | 19.3        | ND                        | 93   | 35-180                    | 3   | 30    |                |
| N-Nitrosodimethylamine                        | 16.6   | 1.0 | ug/l                      | 19.3        | 3.38                      | 69   | 18-120                    | 38  | 30    | R-02           |
| N-Nitrosodi-n-propylamine                     | 16.9   | 1.0 | ug/l                      | 19.3        | ND                        | 88   | 0.1-230                   | 1   | 30    |                |
| N-Nitrosodiphenylamine                        | 0.432  | 1.0 | ug/l                      | 19.3        | ND                        | 2    | 49-120                    | 72  | 30    | MS-01,<br>R-02 |
| Pentachlorophenol                             | 11.5   | 1.0 | ug/l                      | 19.3        | ND                        | 60   | 0.1-133                   | 4   | 30    |                |
| Phenanthrene                                  | 16.6   | 1.0 | ug/l                      | 19.3        | ND                        | 86   | 54-120                    | 2   | 30    |                |
| Phenol                                        | 3.35   | 1.0 | ug/l                      | 19.3        | ND                        | 17   | 5-120                     | 22  | 30    |                |
| Pyrene                                        | 12.1   | 1.0 | ug/l                      | 19.3        | ND                        | 63   | 52-120                    | 16  | 30    |                |
| <i>Surrogate(s)</i>                           |        |     |                           |             |                           |      |                           |     |       |                |
| 2,4,6-Tribromophenol                          | 20.0   |     | ug/l                      | 38.5        |                           | 52   | 25-120                    |     |       |                |
| 2-Fluorobiphenyl                              | 13.0   |     | ug/l                      | 19.3        |                           | 68   | 22-120                    |     |       |                |
| 2-Fluorophenol                                | 12.6   |     | ug/l                      | 38.5        |                           | 33   | 17-120                    |     |       |                |
| Nitrobenzene-d5                               | 16.0   |     | ug/l                      | 19.3        |                           | 83   | 47-120                    |     |       |                |
| Phenol-d5                                     | 5.93   |     | ug/l                      | 38.5        |                           | 15   | 12-120                    |     |       |                |
| Terphenyl-d14                                 | 17.9   |     | ug/l                      | 19.3        |                           | 93   | 44-129                    |     |       |                |

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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|---------|--------|-----|-------|-------------|---------------|------|-------|-----|-------|-----------|
|---------|--------|-----|-------|-------------|---------------|------|-------|-----|-------|-----------|

#### Batch: W4B0770 - EPA 608.3

##### Blank (W4B0770-BLK1)

Prepared: 02/09/24 Analyzed: 03/06/24

|                     |    |        |      |
|---------------------|----|--------|------|
| 4,4'-DDD            | ND | 0.050  | ug/l |
| 4,4'-DDE            | ND | 0.050  | ug/l |
| 4,4'-DDT            | ND | 0.010  | ug/l |
| Aldrin              | ND | 0.0050 | ug/l |
| alpha-BHC           | ND | 0.010  | ug/l |
| Aroclor 1016        | ND | 0.50   | ug/l |
| Aroclor 1221        | ND | 0.50   | ug/l |
| Aroclor 1232        | ND | 0.50   | ug/l |
| Aroclor 1242        | ND | 0.50   | ug/l |
| Aroclor 1248        | ND | 0.50   | ug/l |
| Aroclor 1254        | ND | 0.50   | ug/l |
| Aroclor 1260        | ND | 0.50   | ug/l |
| beta-BHC            | ND | 0.0050 | ug/l |
| Chlordane (tech)    | ND | 0.10   | ug/l |
| delta-BHC           | ND | 0.0050 | ug/l |
| Dieldrin            | ND | 0.010  | ug/l |
| Endosulfan I        | ND | 0.020  | ug/l |
| Endosulfan II       | ND | 0.010  | ug/l |
| Endosulfan sulfate  | ND | 0.050  | ug/l |
| Endrin              | ND | 0.010  | ug/l |
| Endrin aldehyde     | ND | 0.010  | ug/l |
| gamma-BHC (Lindane) | ND | 0.020  | ug/l |
| Heptachlor          | ND | 0.010  | ug/l |
| Heptachlor epoxide  | ND | 0.010  | ug/l |
| Toxaphene           | ND | 0.50   | ug/l |

##### Surrogate(s)

|                         |        |      |       |    |        |
|-------------------------|--------|------|-------|----|--------|
| Decachlorobiphenyl      | 0.0851 | ug/l | 0.100 | 85 | 33-133 |
| Tetrachloro-meta-xylene | 0.0582 | ug/l | 0.100 | 58 | 32-130 |

##### LCS (W4B0770-BS1)

Prepared: 02/09/24 Analyzed: 03/06/24

|               |        |        |      |       |     |        |
|---------------|--------|--------|------|-------|-----|--------|
| 4,4'-DDD      | 0.127  | 0.050  | ug/l | 0.100 | 127 | 48-130 |
| 4,4'-DDE      | 0.107  | 0.050  | ug/l | 0.100 | 107 | 54-130 |
| 4,4'-DDT      | 0.129  | 0.010  | ug/l | 0.100 | 129 | 46-137 |
| Aldrin        | 0.0920 | 0.0050 | ug/l | 0.100 | 92  | 54-130 |
| alpha-BHC     | 0.107  | 0.010  | ug/l | 0.100 | 107 | 49-130 |
| beta-BHC      | 0.101  | 0.0050 | ug/l | 0.100 | 101 | 39-130 |
| delta-BHC     | 0.100  | 0.0050 | ug/l | 0.100 | 100 | 51-130 |
| Dieldrin      | 0.0921 | 0.010  | ug/l | 0.100 | 92  | 58-130 |
| Endosulfan I  | 0.0874 | 0.020  | ug/l | 0.100 | 87  | 57-141 |
| Endosulfan II | 0.106  | 0.010  | ug/l | 0.100 | 106 | 22-171 |

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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

| Analyte                                       | Result | MRL    | Units | Spike Level                                  | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|--------|-------|----------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4B0770 - EPA 608.3 (Continued)</b> |        |        |       |                                              |               |             |     |           |           |
| <b>LCS (W4B0770-BS1)</b>                      |        |        |       | <b>Prepared: 02/09/24 Analyzed: 03/06/24</b> |               |             |     |           |           |
| Endosulfan sulfate                            | 0.122  | 0.050  | ug/l  | 0.100                                        |               | 122 38-132  |     |           |           |
| Endrin                                        | 0.135  | 0.010  | ug/l  | 0.100                                        |               | 135 51-130  |     |           | Q-08      |
| Endrin aldehyde                               | 0.102  | 0.010  | ug/l  | 0.100                                        |               | 102 18-130  |     |           |           |
| gamma-BHC (Lindane)                           | 0.0968 | 0.020  | ug/l  | 0.100                                        |               | 97 43-130   |     |           |           |
| Heptachlor                                    | 0.0954 | 0.010  | ug/l  | 0.100                                        |               | 95 43-130   |     |           |           |
| Heptachlor epoxide                            | 0.102  | 0.010  | ug/l  | 0.100                                        |               | 102 57-132  |     |           |           |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |     |           |           |
| Decachlorobiphenyl                            | 0.0957 |        | ug/l  | 0.100                                        |               | 96 33-133   |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0809 |        | ug/l  | 0.100                                        |               | 81 32-130   |     |           |           |
| <b>LCS Dup (W4B0770-BSD1)</b>                 |        |        |       | <b>Prepared: 02/09/24 Analyzed: 03/06/24</b> |               |             |     |           |           |
| 4,4'-DDD                                      | 0.108  | 0.050  | ug/l  | 0.100                                        |               | 108 48-130  | 16  | 30        |           |
| 4,4'-DDE                                      | 0.0910 | 0.050  | ug/l  | 0.100                                        |               | 91 54-130   | 17  | 30        |           |
| 4,4'-DDT                                      | 0.110  | 0.010  | ug/l  | 0.100                                        |               | 110 46-137  | 16  | 30        |           |
| Aldrin                                        | 0.0947 | 0.0050 | ug/l  | 0.100                                        |               | 95 54-130   | 3   | 30        |           |
| alpha-BHC                                     | 0.0963 | 0.010  | ug/l  | 0.100                                        |               | 96 49-130   | 10  | 30        |           |
| beta-BHC                                      | 0.0875 | 0.0050 | ug/l  | 0.100                                        |               | 87 39-130   | 14  | 30        |           |
| delta-BHC                                     | 0.0822 | 0.0050 | ug/l  | 0.100                                        |               | 82 51-130   | 20  | 30        |           |
| Dieldrin                                      | 0.0795 | 0.010  | ug/l  | 0.100                                        |               | 80 58-130   | 15  | 30        |           |
| Endosulfan I                                  | 0.0765 | 0.020  | ug/l  | 0.100                                        |               | 77 57-141   | 13  | 30        |           |
| Endosulfan II                                 | 0.0918 | 0.010  | ug/l  | 0.100                                        |               | 92 22-171   | 15  | 30        |           |
| Endosulfan sulfate                            | 0.101  | 0.050  | ug/l  | 0.100                                        |               | 101 38-132  | 19  | 30        |           |
| Endrin                                        | 0.116  | 0.010  | ug/l  | 0.100                                        |               | 116 51-130  | 15  | 30        |           |
| Endrin aldehyde                               | 0.0836 | 0.010  | ug/l  | 0.100                                        |               | 84 18-130   | 19  | 30        |           |
| gamma-BHC (Lindane)                           | 0.0804 | 0.020  | ug/l  | 0.100                                        |               | 80 43-130   | 19  | 30        |           |
| Heptachlor                                    | 0.0843 | 0.010  | ug/l  | 0.100                                        |               | 84 43-130   | 12  | 30        |           |
| Heptachlor epoxide                            | 0.0981 | 0.010  | ug/l  | 0.100                                        |               | 98 57-132   | 4   | 30        |           |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |     |           |           |
| Decachlorobiphenyl                            | 0.0783 |        | ug/l  | 0.100                                        |               | 78 33-133   |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0608 |        | ug/l  | 0.100                                        |               | 61 32-130   |     |           |           |

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS

| Analyte                            | Result | MRL | Units | Spike Level                              | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|------------------------------------|--------|-----|-------|------------------------------------------|---------------|------|-------|-----|-------|-----------|
| <b>Batch: W4B0748 - EPA 624.1</b>  |        |     |       |                                          |               |      |       |     |       |           |
| <b>Blank (W4B0748-BLK1)</b>        |        |     |       | <b>Prepared &amp; Analyzed: 02/09/24</b> |               |      |       |     |       |           |
| 1,1,1-Trichloroethane              | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1,2,2-Tetrachloroethane          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1,2-Trichloroethane              | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1-Dichloroethane                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1-Dichloroethene                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,2-Dichloroethane                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,2-Dichloropropane                | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Butanone                         | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Chloroethyl vinyl ether          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Hexanone                         | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| 4-Methyl-2-pentanone               | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acetone                            | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acrolein                           | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acrylonitrile                      | ND     | 2.0 | ug/l  |                                          |               |      |       |     |       |           |
| Benzene                            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromodichloromethane               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromoform                          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromomethane                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Carbon Disulfide                   | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Carbon tetrachloride               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chlorobenzene                      | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloroethane                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloroform                         | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloromethane                      | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| cis-1,3-Dichloropropene            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Dibromochloromethane               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Dichlorodifluoromethane (Freon 12) | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Ethylbenzene                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| m-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Methylene chloride                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| o-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| p-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Tetrachloroethene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Toluene                            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| trans-1,2-Dichloroethene           | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| trans-1,3-Dichloropropene          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Trichloroethene                    | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Trichlorofluoromethane             | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4B0748 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |             |     |           |           |
| <b>Blank (W4B0748-BLK1)</b>                   |        |     |       | <b>Prepared &amp; Analyzed: 02/09/24</b> |               |             |     |           |           |
| Vinyl chloride                                | ND     | 1.0 | ug/l  |                                          |               |             |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 54.2   |     | ug/l  | 50.0                                     |               | 108 82-125  |     |           |           |
| 4-Bromofluorobenzene                          | 51.2   |     | ug/l  | 50.0                                     |               | 102 88-108  |     |           |           |
| Toluene-d8                                    | 56.8   |     | ug/l  | 50.0                                     |               | 114 92-112  |     |           | S-11      |
| <b>LCS (W4B0748-BS1)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 02/09/24</b> |               |             |     |           |           |
| 1,1,1-Trichloroethane                         | 26.2   | 1.0 | ug/l  | 20.0                                     |               | 131 52-162  |     |           |           |
| 1,1,2,2-Tetrachloroethane                     | 18.2   | 1.0 | ug/l  | 20.0                                     |               | 91 46-157   |     |           |           |
| 1,1,2-Trichloroethane                         | 24.9   | 1.0 | ug/l  | 20.0                                     |               | 124 52-150  |     |           |           |
| 1,1-Dichloroethane                            | 25.1   | 1.0 | ug/l  | 20.0                                     |               | 126 59-155  |     |           |           |
| 1,1-Dichloroethene                            | 23.8   | 1.0 | ug/l  | 20.0                                     |               | 119 0.1-234 |     |           |           |
| 1,2-Dichloroethane                            | 24.3   | 1.0 | ug/l  | 20.0                                     |               | 121 49-155  |     |           |           |
| 1,2-Dichloropropane                           | 25.1   | 1.0 | ug/l  | 20.0                                     |               | 125 0.1-210 |     |           |           |
| 2-Butanone                                    | 24.7   | 5.0 | ug/l  | 20.0                                     |               | 123 67-136  |     |           |           |
| 2-Chloroethyl vinyl ether                     | 54.5   | 1.0 | ug/l  | 20.0                                     |               | 272 0.1-305 |     |           |           |
| 2-Hexanone                                    | 23.9   | 5.0 | ug/l  | 20.0                                     |               | 120 76-133  |     |           |           |
| 4-Methyl-2-pentanone                          | 24.5   | 5.0 | ug/l  | 20.0                                     |               | 123 74-132  |     |           |           |
| Acetone                                       | 245    | 5.0 | ug/l  | 200                                      |               | 123 60-147  |     |           |           |
| Acrolein                                      | 19.5   | 5.0 | ug/l  | 20.0                                     |               | 98 49-152   |     |           |           |
| Acrylonitrile                                 | 24.9   | 2.0 | ug/l  | 20.0                                     |               | 125 74-127  |     |           |           |
| Benzene                                       | 24.4   | 1.0 | ug/l  | 20.0                                     |               | 122 37-151  |     |           |           |
| Bromodichloromethane                          | 25.5   | 1.0 | ug/l  | 20.0                                     |               | 127 35-155  |     |           |           |
| Bromoform                                     | 20.4   | 1.0 | ug/l  | 20.0                                     |               | 102 45-169  |     |           |           |
| Bromomethane                                  | 21.7   | 1.0 | ug/l  | 20.0                                     |               | 109 0.1-242 |     |           |           |
| Carbon Disulfide                              | 19.9   | 1.0 | ug/l  | 20.0                                     |               | 100 79-118  |     |           |           |
| Carbon tetrachloride                          | 25.4   | 1.0 | ug/l  | 20.0                                     |               | 127 70-140  |     |           |           |
| Chlorobenzene                                 | 19.2   | 1.0 | ug/l  | 20.0                                     |               | 96 37-160   |     |           |           |
| Chloroethane                                  | 25.2   | 1.0 | ug/l  | 20.0                                     |               | 126 14-230  |     |           |           |
| Chloroform                                    | 25.2   | 1.0 | ug/l  | 20.0                                     |               | 126 51-138  |     |           |           |
| Chloromethane                                 | 23.7   | 1.0 | ug/l  | 20.0                                     |               | 118 0.1-273 |     |           |           |
| cis-1,2-Dichloroethene                        | 25.0   | 1.0 | ug/l  | 20.0                                     |               | 125 85-121  |     |           | Q-08      |
| cis-1,3-Dichloropropene                       | 26.9   | 1.0 | ug/l  | 20.0                                     |               | 134 0.1-227 |     |           |           |
| Dibromochloromethane                          | 24.5   | 1.0 | ug/l  | 20.0                                     |               | 123 53-149  |     |           |           |
| Dichlorodifluoromethane (Freon 12)            | 22.4   | 1.0 | ug/l  | 20.0                                     |               | 112 67-126  |     |           |           |
| Ethylbenzene                                  | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100 37-162  |     |           |           |
| m,p-Xylene                                    | 20.4   | 1.0 | ug/l  | 20.0                                     |               | 102 81-121  |     |           |           |
| m-Dichlorobenzene                             | 18.5   | 1.0 | ug/l  | 20.0                                     |               | 93 59-156   |     |           |           |
| Methyl tert-butyl ether (MTBE)                | 110    | 1.0 | ug/l  | 80.0                                     |               | 137 80-128  |     |           | Q-08      |
| Methylene chloride                            | 24.1   | 1.0 | ug/l  | 20.0                                     |               | 121 0.1-221 |     |           |           |



Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4B0748 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |             |     |           |           |
| <b>LCS (W4B0748-BS1)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 02/09/24</b> |               |             |     |           |           |
| o-Dichlorobenzene                             | 18.7   | 1.0 | ug/l  | 20.0                                     |               | 94 18-190   |     |           |           |
| o-Xylene                                      | 20.1   | 1.0 | ug/l  | 20.0                                     |               | 101 84-121  |     |           |           |
| p-Dichlorobenzene                             | 18.7   | 1.0 | ug/l  | 20.0                                     |               | 94 18-190   |     |           |           |
| Tert-butyl alcohol                            | 107    | 5.0 | ug/l  | 80.0                                     |               | 134 53-144  |     |           |           |
| Tetrachloroethene                             | 25.3   | 1.0 | ug/l  | 20.0                                     |               | 126 64-148  |     |           |           |
| Toluene                                       | 24.7   | 1.0 | ug/l  | 20.0                                     |               | 124 47-150  |     |           |           |
| trans-1,2-Dichloroethene                      | 24.1   | 1.0 | ug/l  | 20.0                                     |               | 121 54-156  |     |           |           |
| trans-1,3-Dichloropropene                     | 27.7   | 1.0 | ug/l  | 20.0                                     |               | 138 17-183  |     |           |           |
| Trichloroethene                               | 24.8   | 1.0 | ug/l  | 20.0                                     |               | 124 71-157  |     |           |           |
| Trichlorofluoromethane                        | 24.5   | 1.0 | ug/l  | 20.0                                     |               | 122 17-181  |     |           |           |
| Vinyl chloride                                | 24.0   | 1.0 | ug/l  | 20.0                                     |               | 120 0.1-251 |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 52.4   |     | ug/l  | 50.0                                     |               | 105 82-125  |     |           |           |
| 4-Bromofluorobenzene                          | 53.2   |     | ug/l  | 50.0                                     |               | 106 88-108  |     |           |           |
| Toluene-d8                                    | 57.1   |     | ug/l  | 50.0                                     |               | 114 92-112  |     |           | S-11      |
| <b>LCS Dup (W4B0748-BSD1)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 02/09/24</b> |               |             |     |           |           |
| 1,1,1-Trichloroethane                         | 23.6   | 1.0 | ug/l  | 20.0                                     |               | 118 52-162  | 11  | 25        |           |
| 1,1,2,2-Tetrachloroethane                     | 15.9   | 1.0 | ug/l  | 20.0                                     |               | 80 46-157   | 13  | 25        |           |
| 1,1,2-Trichloroethane                         | 21.8   | 1.0 | ug/l  | 20.0                                     |               | 109 52-150  | 13  | 25        |           |
| 1,1-Dichloroethane                            | 21.8   | 1.0 | ug/l  | 20.0                                     |               | 109 59-155  | 14  | 25        |           |
| 1,1-Dichloroethene                            | 21.1   | 1.0 | ug/l  | 20.0                                     |               | 106 0.1-234 | 12  | 25        |           |
| 1,2-Dichloroethane                            | 21.5   | 1.0 | ug/l  | 20.0                                     |               | 108 49-155  | 12  | 25        |           |
| 1,2-Dichloropropane                           | 21.8   | 1.0 | ug/l  | 20.0                                     |               | 109 0.1-210 | 14  | 25        |           |
| 2-Butanone                                    | 23.8   | 5.0 | ug/l  | 20.0                                     |               | 119 67-136  | 4   | 25        |           |
| 2-Chloroethyl vinyl ether                     | 42.8   | 1.0 | ug/l  | 20.0                                     |               | 214 0.1-305 | 24  | 25        |           |
| 2-Hexanone                                    | 22.9   | 5.0 | ug/l  | 20.0                                     |               | 114 76-133  | 5   | 25        |           |
| 4-Methyl-2-pentanone                          | 22.6   | 5.0 | ug/l  | 20.0                                     |               | 113 74-132  | 8   | 25        |           |
| Acetone                                       | 238    | 5.0 | ug/l  | 200                                      |               | 119 60-147  | 3   | 25        |           |
| Acrolein                                      | 19.6   | 5.0 | ug/l  | 20.0                                     |               | 98 49-152   | 0.4 | 25        |           |
| Acrylonitrile                                 | 21.8   | 2.0 | ug/l  | 20.0                                     |               | 109 74-127  | 13  | 25        |           |
| Benzene                                       | 21.4   | 1.0 | ug/l  | 20.0                                     |               | 107 37-151  | 13  | 25        |           |
| Bromodichloromethane                          | 21.9   | 1.0 | ug/l  | 20.0                                     |               | 109 35-155  | 15  | 25        |           |
| Bromoform                                     | 17.7   | 1.0 | ug/l  | 20.0                                     |               | 88 45-169   | 14  | 25        |           |
| Bromomethane                                  | 19.5   | 1.0 | ug/l  | 20.0                                     |               | 97 0.1-242  | 11  | 25        |           |
| Carbon Disulfide                              | 16.9   | 1.0 | ug/l  | 20.0                                     |               | 85 79-118   | 16  | 25        |           |
| Carbon tetrachloride                          | 22.4   | 1.0 | ug/l  | 20.0                                     |               | 112 70-140  | 12  | 25        |           |
| Chlorobenzene                                 | 17.0   | 1.0 | ug/l  | 20.0                                     |               | 85 37-160   | 12  | 25        |           |
| Chloroethane                                  | 21.2   | 1.0 | ug/l  | 20.0                                     |               | 106 14-230  | 17  | 25        |           |
| Chloroform                                    | 21.8   | 1.0 | ug/l  | 20.0                                     |               | 109 51-138  | 14  | 25        |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
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**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4B0748 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |      |         |     |       |           |
| <b>LCS Dup (W4B0748-BSD1)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 02/09/24</b> |               |      |         |     |       |           |
| Chloromethane                                 | 20.1   | 1.0 | ug/l  | 20.0                                     |               | 100  | 0.1-273 | 16  | 25    |           |
| cis-1,2-Dichloroethene                        | 22.0   | 1.0 | ug/l  | 20.0                                     |               | 110  | 85-121  | 13  | 25    |           |
| cis-1,3-Dichloropropene                       | 23.5   | 1.0 | ug/l  | 20.0                                     |               | 117  | 0.1-227 | 13  | 25    |           |
| Dibromochloromethane                          | 21.4   | 1.0 | ug/l  | 20.0                                     |               | 107  | 53-149  | 14  | 25    |           |
| Dichlorodifluoromethane (Freon 12)            | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105  | 67-126  | 7   | 25    |           |
| Ethylbenzene                                  | 17.6   | 1.0 | ug/l  | 20.0                                     |               | 88   | 37-162  | 13  | 25    |           |
| m,p-Xylene                                    | 17.7   | 1.0 | ug/l  | 20.0                                     |               | 89   | 81-121  | 14  | 25    |           |
| m-Dichlorobenzene                             | 16.0   | 1.0 | ug/l  | 20.0                                     |               | 80   | 59-156  | 14  | 25    |           |
| Methyl tert-butyl ether (MTBE)                | 96.5   | 1.0 | ug/l  | 80.0                                     |               | 121  | 80-128  | 13  | 25    |           |
| Methylene chloride                            | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105  | 0.1-221 | 14  | 25    |           |
| o-Dichlorobenzene                             | 16.7   | 1.0 | ug/l  | 20.0                                     |               | 83   | 18-190  | 11  | 25    |           |
| o-Xylene                                      | 17.6   | 1.0 | ug/l  | 20.0                                     |               | 88   | 84-121  | 13  | 25    |           |
| p-Dichlorobenzene                             | 16.5   | 1.0 | ug/l  | 20.0                                     |               | 82   | 18-190  | 13  | 25    |           |
| Tert-butyl alcohol                            | 110    | 5.0 | ug/l  | 80.0                                     |               | 137  | 53-144  | 3   | 25    |           |
| Tetrachloroethene                             | 22.7   | 1.0 | ug/l  | 20.0                                     |               | 114  | 64-148  | 11  | 25    |           |
| Toluene                                       | 21.4   | 1.0 | ug/l  | 20.0                                     |               | 107  | 47-150  | 15  | 25    |           |
| trans-1,2-Dichloroethene                      | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105  | 54-156  | 14  | 25    |           |
| trans-1,3-Dichloropropene                     | 24.3   | 1.0 | ug/l  | 20.0                                     |               | 121  | 17-183  | 13  | 25    |           |
| Trichloroethene                               | 21.8   | 1.0 | ug/l  | 20.0                                     |               | 109  | 71-157  | 13  | 25    |           |
| Trichlorofluoromethane                        | 22.1   | 1.0 | ug/l  | 20.0                                     |               | 110  | 17-181  | 10  | 25    |           |
| Vinyl chloride                                | 21.3   | 1.0 | ug/l  | 20.0                                     |               | 107  | 0.1-251 | 12  | 25    |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |      |         |     |       |           |
| 1,2-Dichloroethane-d4                         | 50.9   |     | ug/l  | 50.0                                     |               | 102  | 82-125  |     |       |           |
| 4-Bromofluorobenzene                          | 52.9   |     | ug/l  | 50.0                                     |               | 106  | 88-108  |     |       |           |
| Toluene-d8                                    | 55.7   |     | ug/l  | 50.0                                     |               | 111  | 92-112  |     |       |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Encina Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 16:06

## Notes and Definitions

| Item   | Definition                                                                                                                                                                                                                                     |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN-IP  | Sample results for structural isomers may have contribution from their isomeric pair.                                                                                                                                                          |
| M-04   | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.                                                                                                      |
| M-05   | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.                                                                                                              |
| MS-01  | The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.                                                                                                                     |
| P      | Recovery outside of target range                                                                                                                                                                                                               |
| Q-08   | High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.                                                                                                                          |
| R-01   | The MDL and/or MRL for this analyte has been raised to account for matrix interference.                                                                                                                                                        |
| R-02   | The RPD was outside of QC acceptance limits due to possible matrix interference.                                                                                                                                                               |
| R-03   | The RPD is not applicable for result below the reporting limit (either ND or J value).                                                                                                                                                         |
| S-11   | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.                                                                                                                        |
| S-GC   | Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.                                                                                        |
| %REC   | Percent Recovery                                                                                                                                                                                                                               |
| Dil    | Dilution                                                                                                                                                                                                                                       |
| MDL    | Method Detection Limit                                                                                                                                                                                                                         |
| MRL    | Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) |
| ND     | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.                                                                                        |
| RPD    | Relative Percent Difference                                                                                                                                                                                                                    |
| Source | Sample that was matrix spiked or duplicated.                                                                                                                                                                                                   |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

### Report Prepared for:

Ryan Gasio  
Weck Laboratories Inc  
14859 Clark Avenue  
Hacienda Heights CA 91745

## REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

### Report Prepared Date:

March 1, 2024

### Report Information:

**Pace Project #: 10683804**  
**Sample Receipt Date: 02/14/2024**  
**Client Project #: 4B09033**  
**Client Sub PO #: N/A**  
**State Cert #: 2929**

### Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

### This report has been reviewed by:



March 01, 2024

Joanne Richardson,  
(612) 607-6453  
(612) 607-6444 (fax)



### Report of Laboratory Analysis

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The results relate only to the samples included in this report.

## **DISCUSSION**

This report presents the results from the analysis performed on one sample submitted by a representative of Weck Laboratories, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 1-liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 53-90%. Except for one value, which was flagged "R" on the results tables, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 81-106% with relative percent differences of 2.2-11.2%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

The response obtained for the labeled OCDD in calibration standard analysis U240301A\_16 was outside the target range. As specified in our procedures for this method, the average of the daily response factors for this compound was used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

## **REPORT OF LABORATORY ANALYSIS**

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## Minnesota Laboratory Certifications

| Authority      | Certificate #  | Authority       | Certificate #  |
|----------------|----------------|-----------------|----------------|
| A2LA           | 2926.01        | Missouri        | 10100          |
| Alabama        | 40770          | Montana         | CERT0092       |
| Alaska-DW      | MN00064        | Nebraska        | NE-OS-18-06    |
| Alaska-UST     | 17-009         | Nevada          | MN00064        |
| Arizona        | AZ0014         | New Hampshire   | 2081           |
| Arkansas - WW  | 88-0680        | New Jersey      | MN002          |
| Arkansas-DW    | MN00064        | New York        | 11647          |
| California     | 2929           | North Carolina- | 27700          |
| Colorado       | MN00064        | North Carolina- | 530            |
| Connecticut    | PH-0256        | North Dakota    | R-036          |
| Florida        | E87605         | Ohio-DW         | 41244          |
| Georgia        | 959            | Ohio-VAP (170   | CL101          |
| Hawaii         | MN00064        | Ohio-VAP (180   | CL110          |
| Idaho          | MN00064        | Oklahoma        | 9507           |
| Illinois       | 200011         | Oregon-Primary  | MN300001       |
| Indiana        | C-MN-01        | Oregon-Second   | MN200001       |
| Iowa           | 368            | Pennsylvania    | 68-00563       |
| Kansas         | E-10167        | Puerto Rico     | MN00064        |
| Kentucky-DW    | 90062          | South Carolina  | 74003          |
| Kentucky-WW    | 90062          | Tennessee       | TN02818        |
| Louisiana-DEQ  | AI-84596       | Texas           | T104704192     |
| Louisiana-DW   | MN00064        | Utah            | MN00064        |
| Maine          | MN00064        | Vermont         | VT-027053137   |
| Maryland       | 322            | Virginia        | 460163         |
| Michigan       | 9909           | Washington      | C486           |
| Minnesota      | 027-053-137    | West Virginia-D | 382            |
| Minnesota-Ag   | via MN 027-053 | West Virginia-D | 9952C          |
| Minnesota-Petr | 1240           | Wisconsin       | 999407970      |
| Mississippi    | MN00064        | Wyoming-UST     | via A2LA 2926. |

## REPORT OF LABORATORY ANALYSIS

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## **Appendix A**

### **Sample Management**

## **REPORT OF LABORATORY ANALYSIS**

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WECK LABORATORIES, INC.

Laboratory:

Pace Analytical Services - Minneapolis MN  
1700 Elm St. SE, Suite 200  
Minneapolis, MN 55414  
Phone: (612) 607-1700  
Fax:

Project: Encina Wastewater Authority

Project Number: 4B09033

Week Manager: Ryan J. Gasio Ryan.Gasio@wecklabs.com

Sample Name

• Container(s)

4B09033-01/Encina Influent

Water 2/8/24 8:21

Matrix Sampled  
Date/Time (24h)

Dioxins/Furans - EPA 8290

Analyses Requested

Chain of Custody

Project Number: 4B09033

Turn Around Time:

Normal

Drinking Water:

Yes / No

Need Transfer File (xls):

Yes / No

RG ✓

Tracking Number:

Comments

061

Remarks / Special Comments:

Relinquished By

Date / Time Received By

Date / Time

Temperature:

0.9

Preserved:

Yes / No

Evidence Seal Intact:

Yes / No

Container Attacked:

Yes / No

Preserved at Lab:

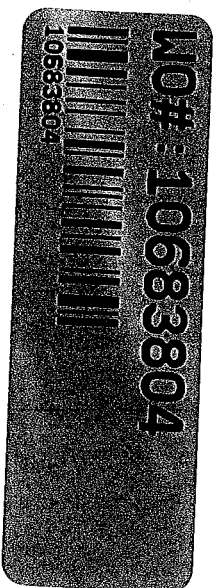
Yes / No

Date / Time Received By

Date / Time

Relinquished By

Weck Laboratories, Inc. - Chain of Custody - 4B09033





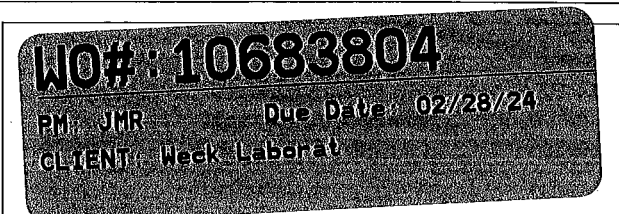
# ENV-FRM-MIN4-0150 v15\_Sample Condition Upon Receipt

CLIENT NAME: Weck Laboratories

PROJECT #:

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace  
☐ SpeedDee ☐ UPS ☐ USPS

TRACKING NUMBER: 7753 2605 0528 ☐ See Exceptions form ENV-FRM-MIN4-0142



Custody Seal on Coole/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A  
Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet  
Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)  
☐ T7 (0042) ☐ T8 (0775) ☒ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A  
Correction Factor: -0.2 Cooler Temp Read w/Temp Blank: \_\_\_\_\_ °C Average Corrected Temp (no Temp Blank Only): 0.9 °C  
Cooler Temp Corrected w/Temp Blank: \_\_\_\_\_ °C  
NOTE: Temp should be above freezing to 6°C. ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☒ N/A - Water Sample/Other (describe): \_\_\_\_\_ Initials & Date of Person Examining Contents: 2-27-24 Acc  
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO  
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

| LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA                                                                                                                                                                                                                                                                                                                                                 | YES                                 | NO                                  | N/A                                 | COMMENT(S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out?                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Chain of Custody Relinquished?                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Sampler Name and/or Signature on COC?                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Samples Arrived within Hold Time?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Short Hold Time Analysis (<72 hr)?                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom<br><input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos<br><input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____                                                                                                                                                                                                     |                   |          |           |            |  |  |  |  |
| Rush Turn Around Time Requested?                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Sufficient Sample Volume?                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Correct Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| - Pace Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Containers Intact?                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Field Filtered Volume Received for Dissolved Tests?                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. Is sediment visible in the dissolved container:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Is sufficient information available to reconcile the samples to the COC?<br>NOTE: If ID/Date/Time don't match fill out section 11.<br>Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. If NO, write ID/Date/Time of container below:<br><input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| All containers needing acid/base preservation have been checked?<br>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)<br>Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS<br>NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first. | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 12. Sample #:<br><input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate<br>Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO<br>pH Paper Lot #<br><table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 | Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip |  |  |  |  |
| Residual Chlorine                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-6 Roll                            | 0-6 Strip                           | 0-14 Strip                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Headspace in Methyl Mercury Container?                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Extra labels present on soil VOA or WIDRO containers?                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Headspace in VOA Vials (greater than 6mm)?                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |          |           |            |  |  |  |  |
| Trip Blanks Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Trip Blank Custody Seals Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Pace Trip Blank Lot # (if purchased): _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |          |           |            |  |  |  |  |

## CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Comments / Resolution: \_\_\_\_\_

Project Manager Review: Joanne Richardson

Date: 2-27-24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: AG6 Line: (3)

Workorder #: 10683804

| No Temp Blank |                |              |
|---------------|----------------|--------------|
| Read Temp     | Corrected Temp | Average temp |
| 0.9           | 0.7            | 0.9          |
| 1.4           | 1.2            |              |
| 1.1           | 0.9            |              |
|               |                |              |

|                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM Notified of Out of Temp Cooler?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, indicate who was contacted, date and time.<br>If no, indicate reason why.<br><br> |
| <b>Multiple Cooler Project?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                        |

If anything is OVER 6.0°C, you **MUST** document containers in this section **HERE**



| Tracking Number | Temperature |
|-----------------|-------------|
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |



| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |

| pH Adjustment Log for Preserved Samples |                  |                 |               |               |                   |             |          |                               |                          |          |
|-----------------------------------------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
| Sample ID                               | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? |                          | Initials |
|                                         |                  |                 |               |               |                   |             |          | YES                           | NO                       |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |

Comments:

# Subcontract Order

Project Number: 4B09033

**Subcontracted Laboratory:**

Pace Analytical Services - Minneapolis MN  
1700 Elm St. SE, Suite 200  
Minneapolis, MN 55414  
Phone: (612) 607-1700  
Fax:

**Turn Around Time:**

Normal

**Project Manager:**

Ryan J. Gasio

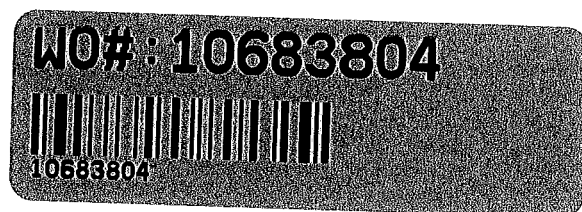
**Project Name:**

Encina Wastewater Authority

VJ /

Project Number: 4B09033

| Analysis                              | Expires          | Comments                  |
|---------------------------------------|------------------|---------------------------|
| Sample ID: 4B09033-01/Encina Influent |                  |                           |
| Matrix: Water                         |                  | Sampled: 02/08/2024 08:21 |
| Dioxins/Furans - EPA 8290             | 03/09/2024 08:21 |                           |



Remarks / Special Comments:

additional volume for 10683804.  
Requested by Jo Anne R.

*ACR*

Sample Condition

Temperature: 6.7

Preserved: Yes / ☒ No

Evidence Seal Intact: Yes / No

Container Attacked: Yes / No

Preserved at Lab: Yes / No

Relinquished By

*Calvin King*

2/22/24

Date / Time

Received By

*Samuel Pae*

2/26/24 840

Date / Time

Relinquished By

Weck Laboratories, Inc. - Subcontract Order - 4B09033

Report No.....10683804\_SW8290FC\_L2\_dfr

Date / Time Received By

Date / Time

# ENV-FRM-MIN4-0150 v15\_Sample Condition Upon Receipt

CLIENT NAME: Week Labs

PROJECT #:

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace  
☐ SpeedDee ☐ UPS ☐ USPS

WO#: **10683804**

PM: JMR Due Date: 02/28/24

CLIENT: Week Laborat

TRACKING NUMBER: 7752 7898 8595 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☒ NO ☐ N/A

Packing Material: ☒ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet

Thermometer: ☐ T1 (0461) ☒ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)  
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710) ☒ Melted ☐ None

|                                                                                                             |                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| Correction Factor: <u>+0.3</u> Cooler Temp Read w/Temp Blank: _____ °C                                      | Average Corrected Temp (no Temp Blank Only): <u>6.7</u> °C                                                                       |
| NOTE: Temp should be above freezing to 6°C.                                                                 | <input checked="" type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container                   |

|                                                                                                                                                                                                           |                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| USDA Regulated Soil: <input checked="" type="checkbox"/> N/A - Water Sample/Other (describe): _____                                                                                                       | Initials & Date of Person Examining Contents: <u>DGS 2/26/24</u>                                                                                        |
| Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input type="checkbox"/> NO | Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input type="checkbox"/> NO |
| NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.                                                                             |                                                                                                                                                         |

| LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA                                                                                                                                                                                                                                                                                                                                                 | YES                                 | NO                                  | N/A                                 | COMMENT(S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |          |           |            |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out?                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| Chain of Custody Relinquished?                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| Sampler Name and/or Signature on COC?                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| Samples Arrived within Hold Time?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |          |           |            |  |  |  |  |
| Short Hold Time Analysis (<72 hr)?                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom<br><input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos<br><input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____                                                                                                                                                                                                                                                              |                   |          |           |            |  |  |  |  |
| Rush Turn Around Time Requested?                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| Sufficient Sample Volume?                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| Correct Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| - Pace Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |          |           |            |  |  |  |  |
| Containers Intact?                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |          |           |            |  |  |  |  |
| Field Filtered Volume Received for Dissolved Tests?                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. Is sediment visible in the dissolved container:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |          |           |            |  |  |  |  |
| Is sufficient information available to reconcile the samples to the COC?<br>NOTE: If ID/Date/Time don't match fill out section 11.<br>Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. If NO, write ID/Date/Time of container below:<br><input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
| All containers needing acid/base preservation have been checked?<br>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)<br>Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS<br>NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first. | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 12. Sample #:<br><input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate<br>Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO<br><p style="text-align: center;">pH Paper Lot #</p> <table border="1" style="width: 100%;"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 | Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip |  |  |  |  |
| Residual Chlorine                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-6 Roll                            | 0-6 Strip                           | 0-14 Strip                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |          |           |            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |          |           |            |  |  |  |  |
| Headspace in Methyl Mercury Container?                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
| Extra labels present on soil VOA or WIDRO containers?                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
| Headspace in VOA Vials (greater than 6mm)?                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |          |           |            |  |  |  |  |
| Trip Blanks Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
| Trip Blank Custody Seals Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Pace Trip Blank Lot # (if purchased): _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |

## CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Comments / Resolution: \_\_\_\_\_

Project Manager Review: Joanne Richardson

Date: 2-26-24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

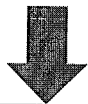
Labeled By: DGS Line: 3

Workorder #: 10683804

| No Temp Blank |                |              |
|---------------|----------------|--------------|
| Read Temp     | Corrected Temp | Average temp |
| 5.3           | 6.6            | 6.7          |
| 6.7           | 7.0            |              |
| 6.6           | 6.9            |              |
| 5.9           | 6.2            |              |

|                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM Notified of Out of Temp Cooler?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, indicate who was contacted, date and time.<br>If no, indicate reason why.<br>JMR 2/26/24 935 |
| <b>Multiple Cooler Project?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                                                                   |

If anything is OVER 6.0°C, you MUST document containers in this section HERE



| Tracking Number | Temperature |
|-----------------|-------------|
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |



| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
| All                   | All            | All             |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |

pH Adjustment Log for Preserved Samples

| Sample ID | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? |                          | Initials |
|-----------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
|           |                  |                 |               |               |                   |             |          | YES                           | NO                       |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |

Comments:

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WECK LABORATORIES, INC.

Laboratory:

Pace Analytical Services - Minneapolis MN  
1700 Elm St. SE, Suite 200  
Minneapolis, MN 55414  
Phone: (612) 607-1700  
Fax:

Project: Encina Wastewater Authority

Project Number: 4B09033

Week Manager: Ryan J. Gasio Ryan.Gasio@wecklabs.com

Sample Name

• Container(s)

4B09033-01/Encina Influent

Water 2/8/24 8:21

Matrix Sampled  
Date/Time (24h)

Dioxins/Furans - EPA 8290

Analyses Requested

Chain of Custody

Project Number: 4B09033

Turn Around Time:

Normal

Drinking Water:

Yes / No

Need Transfer File (xls):

Yes / No

RG ✓

Tracking Number:

Comments

061

Remarks / Special Comments:

Relinquished By

Date / Time Received By

Date / Time

Evidence Seal Intact:

Yes / No

Container Attacked:

Yes / No

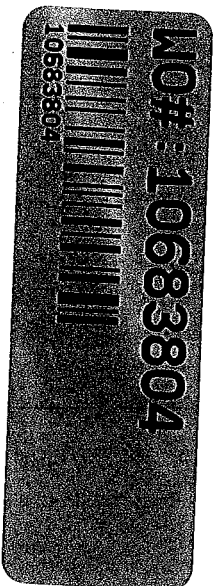
Relinquished By

Date / Time Received By

Date / Time

Preserved at Lab:

Yes / No



Sample Condition

Temperature:

0.9

Preserved:

Yes / No

Evidence Seal Intact:

Yes / No

Container Attacked:

Yes / No

Preserved at Lab:

Yes / No

Relinquished By  
Weck Laboratories, Inc. - Chain of Custody - 4B09033



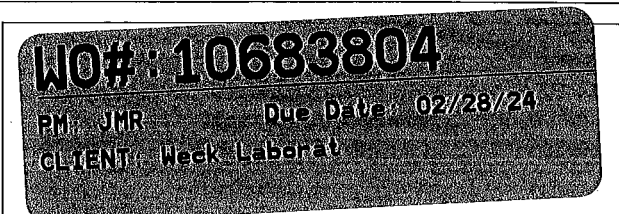
# ENV-FRM-MIN4-0150 v15 Sample Condition Upon Receipt

CLIENT NAME: Weck Laboratories

PROJECT #:

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace  
☐ SpeedDee ☐ UPS ☐ USPS

TRACKING NUMBER: 7753 2605 0528 ☐ See Exceptions form ENV-FRM-MIN4-0142



Custody Seal on Coole/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A  
Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet  
Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)  
☐ T7 (0042) ☐ T8 (0775) ☒ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A  
Correction Factor: -0.2 Cooler Temp Read w/Temp Blank: \_\_\_\_\_ °C Average Corrected Temp (no Temp Blank Only): 0.9 °C  
Cooler Temp Corrected w/Temp Blank: \_\_\_\_\_ °C  
NOTE: Temp should be above freezing to 6°C. ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☒ N/A - Water Sample/Other (describe): \_\_\_\_\_ Initials & Date of Person Examining Contents: 2-27-24 Acc  
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO  
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

| LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA                                                                                                                                                                                                                                                                                                                                                 | YES                                 | NO                                  | N/A                                 | COMMENT(S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out?                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Chain of Custody Relinquished?                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Sampler Name and/or Signature on COC?                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Samples Arrived within Hold Time?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Short Hold Time Analysis (<72 hr)?                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom<br><input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos<br><input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____                                                                                                                                                                                                     |                   |          |           |            |  |  |  |  |
| Rush Turn Around Time Requested?                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Sufficient Sample Volume?                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Correct Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| - Pace Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Containers Intact?                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Field Filtered Volume Received for Dissolved Tests?                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. Is sediment visible in the dissolved container:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Is sufficient information available to reconcile the samples to the COC?<br>NOTE: If ID/Date/Time don't match fill out section 11.<br>Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. If NO, write ID/Date/Time of container below:<br><input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| All containers needing acid/base preservation have been checked?<br>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)<br>Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS<br>NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first. | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 12. Sample #:<br><input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate<br>Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO<br>pH Paper Lot #<br><table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 | Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip |  |  |  |  |
| Residual Chlorine                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-6 Roll                            | 0-6 Strip                           | 0-14 Strip                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Headspace in Methyl Mercury Container?                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Extra labels present on soil VOA or WIDRO containers?                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Headspace in VOA Vials (greater than 6mm)?                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |          |           |            |  |  |  |  |
| Trip Blanks Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Trip Blank Custody Seals Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Pace Trip Blank Lot # (if purchased): _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |          |           |            |  |  |  |  |

## CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Comments / Resolution: \_\_\_\_\_

Project Manager Review: Joanne Richardson

Date: 2-27-24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: AG6 Line: (3)

Workorder #: 10683804

| No Temp Blank |                |              |
|---------------|----------------|--------------|
| Read Temp     | Corrected Temp | Average temp |
| 0.9           | 0.7            | 0.9          |
| 1.4           | 1.2            |              |
| 1.1           | 0.9            |              |
|               |                |              |

|                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM Notified of Out of Temp Cooler?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, indicate who was contacted, date and time.<br>If no, indicate reason why.<br><br> |
| <b>Multiple Cooler Project?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                        |

If anything is OVER 6.0°C, you **MUST** document containers in this section **HERE**



| Tracking Number | Temperature |
|-----------------|-------------|
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |



| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |

| pH Adjustment Log for Preserved Samples |                  |                 |               |               |                   |             |          |                               |                          |          |
|-----------------------------------------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
| Sample ID                               | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? |                          | Initials |
|                                         |                  |                 |               |               |                   |             |          | YES                           | NO                       |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |

Comments:





## Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



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Fax: 612.607.6444  
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## **Appendix B**

### **Sample Analysis Summary**

## **REPORT OF LABORATORY ANALYSIS**

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## Method 8290 Sample Analysis Results

Client - Weck Laboratories Inc

|                        |                            |           |                  |
|------------------------|----------------------------|-----------|------------------|
| Client's Sample ID     | 4B09033-01/Encina Influent |           |                  |
| Lab Sample ID          | 10683804001-R              |           |                  |
| Filename               | U240301A_11                |           |                  |
| Injected By            | JF                         |           |                  |
| Total Amount Extracted | 922 mL                     | Matrix    | WATER            |
| % Moisture             | NA                         | Dilution  | NA               |
| Dry Weight Extracted   | NA                         | Collected | 02/08/2024 08:21 |
| ICAL ID                | U240206                    | Received  | 02/14/2024 08:50 |
| CCal Filename(s)       | U240229A_16 & U240301A_16  | Extracted | 02/28/2024 11:07 |
| Method Blank ID        | BLANK-111366               | Analyzed  | 03/01/2024 08:14 |

| Native Isomers      | Conc<br>pg/L | EMPC<br>pg/L | RL<br>pg/L | Internal Standards                     | ng's<br>Added | Percent<br>Recovery |
|---------------------|--------------|--------------|------------|----------------------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND           | ----         | 10         | 2,3,7,8-TCDF-13C                       | 2.00          | 62                  |
| Total TCDF          | ND           | ----         | 10         | 2,3,7,8-TCDD-13C                       | 2.00          | 53                  |
|                     |              |              |            | 1,2,3,7,8-PeCDF-13C                    | 2.00          | 70                  |
| 2,3,7,8-TCDD        | ND           | ----         | 10         | 2,3,4,7,8-PeCDF-13C                    | 2.00          | 72                  |
| Total TCDD          | ND           | ----         | 10         | 1,2,3,7,8-PeCDD-13C                    | 2.00          | 78                  |
|                     |              |              |            | 1,2,3,4,7,8-HxCDF-13C                  | 2.00          | 83                  |
| 1,2,3,7,8-PeCDF     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDF-13C                  | 2.00          | 90                  |
| 2,3,4,7,8-PeCDF     | ND           | ----         | 50         | 2,3,4,6,7,8-HxCDF-13C                  | 2.00          | 85                  |
| Total PeCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDF-13C                  | 2.00          | 81                  |
|                     |              |              |            | 1,2,3,4,7,8-HxCDD-13C                  | 2.00          | 75                  |
| 1,2,3,7,8-PeCDD     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDD-13C                  | 2.00          | 84                  |
| Total PeCDD         | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDF-13C                | 2.00          | 81                  |
|                     |              |              |            | 1,2,3,4,7,8,9-HpCDF-13C                | 2.00          | 70                  |
| 1,2,3,4,7,8-HxCDF   | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDD-13C                | 2.00          | 75                  |
| 1,2,3,6,7,8-HxCDF   | ND           | ----         | 50         | OCDD-13C                               | 4.00          | 83 Y                |
| 2,3,4,6,7,8-HxCDF   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND           | ----         | 50         | 1,2,3,4-TCDD-13C                       | 2.00          | NA                  |
| Total HxCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDD-13C                  | 2.00          | NA                  |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND           | ----         | 50         | 2,3,7,8-TCDD-37Cl4                     | 0.20          | 69                  |
| 1,2,3,6,7,8-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| Total HxCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND           | ----         | 50         | Total 2,3,7,8-TCDD                     |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND           | ----         | 50         | Equivalence: 0.00 pg/L                 |               |                     |
| Total HpCDF         | ND           | ----         | 50         | (Lower-bound - Using 2005 WHO Factors) |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND           | ----         | 50         |                                        |               |                     |
| Total HpCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| OCDF                | ND           | ----         | 100        |                                        |               |                     |
| OCDD                | ND           | ----         | 100        |                                        |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

Y = Calculated using average of daily RFs

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Blank Analysis Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample Name        | DFBLKVC                   | Matrix      | Water            |
| Lab Sample ID          | BLANK-111366              | Dilution    | NA               |
| Filename               | L240301A_15               | Extracted   | 02/28/2024 11:07 |
| Total Amount Extracted | 982 mL                    | Analyzed    | 03/01/2024 09:58 |
| ICAL ID                | L240204                   | Injected By | JF               |
| CCal Filename(s)       | L240229A_16 & L240301A_16 |             |                  |

| Native Isomers      | Conc<br>pg/L | EMPC<br>pg/L | RL<br>pg/L | Internal Standards                     | ng's<br>Added | Percent<br>Recovery |
|---------------------|--------------|--------------|------------|----------------------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND           | ----         | 10         | 2,3,7,8-TCDF-13C                       | 2.00          | 104                 |
| Total TCDF          | ND           | ----         | 10         | 2,3,7,8-TCDD-13C                       | 2.00          | 92                  |
|                     |              |              |            | 1,2,3,7,8-PeCDF-13C                    | 2.00          | 143 R               |
| 2,3,7,8-TCDD        | ND           | ----         | 10         | 2,3,4,7,8-PeCDF-13C                    | 2.00          | 118                 |
| Total TCDD          | ND           | ----         | 10         | 1,2,3,7,8-PeCDD-13C                    | 2.00          | 127                 |
|                     |              |              |            | 1,2,3,4,7,8-HxCDF-13C                  | 2.00          | 102                 |
| 1,2,3,7,8-PeCDF     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDF-13C                  | 2.00          | 116                 |
| 2,3,4,7,8-PeCDF     | ND           | ----         | 50         | 2,3,4,6,7,8-HxCDF-13C                  | 2.00          | 104                 |
| Total PeCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDF-13C                  | 2.00          | 102                 |
|                     |              |              |            | 1,2,3,4,7,8-HxCDD-13C                  | 2.00          | 89                  |
| 1,2,3,7,8-PeCDD     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDD-13C                  | 2.00          | 104                 |
| Total PeCDD         | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDF-13C                | 2.00          | 88                  |
|                     |              |              |            | 1,2,3,4,7,8,9-HpCDF-13C                | 2.00          | 99                  |
| 1,2,3,4,7,8-HxCDF   | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDD-13C                | 2.00          | 99                  |
| 1,2,3,6,7,8-HxCDF   | ND           | ----         | 50         | OCDD-13C                               | 4.00          | 72                  |
| 2,3,4,6,7,8-HxCDF   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND           | ----         | 50         | 1,2,3,4-TCDD-13C                       | 2.00          | NA                  |
| Total HxCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDD-13C                  | 2.00          | NA                  |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND           | ----         | 50         | 2,3,7,8-TCDD-37Cl4                     | 0.20          | 81                  |
| 1,2,3,6,7,8-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| Total HxCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND           | ----         | 50         | Total 2,3,7,8-TCDD                     |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND           | ----         | 50         | Equivalence: 0.00 pg/L                 |               |                     |
| Total HpCDF         | ND           | ----         | 50         | (Lower-bound - Using 2005 WHO Factors) |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND           | ----         | 50         |                                        |               |                     |
| Total HpCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| OCDF                | ND           | ----         | 100        |                                        |               |                     |
| OCDD                | ND           | ----         | 100        |                                        |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

R = Recovery outside target range

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Laboratory Control Spike Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample ID          | LCS-111367                | Matrix      | Water            |
| Filename               | L240301A_12               | Dilution    | NA               |
| Total Amount Extracted | 967 mL                    | Extracted   | 02/28/2024 11:07 |
| ICAL ID                | L240204                   | Analyzed    | 03/01/2024 07:47 |
| CCal Filename(s)       | L240229A_16 & L240301A_16 | Injected By | JF               |
| Method Blank ID        | BLANK-111366              |             |                  |

| Native Isomers      | Qs (ng) | Qm (ng) | % Rec. | Internal Standards      | ng's Added | Percent Recovery |
|---------------------|---------|---------|--------|-------------------------|------------|------------------|
| 2,3,7,8-TCDF        | 0.20    | 0.19    | 94     | 2,3,7,8-TCDF-13C        | 2.0        | 97               |
| Total TCDF          |         |         |        | 2,3,7,8-TCDD-13C        | 2.0        | 77               |
|                     |         |         |        | 1,2,3,7,8-PeCDF-13C     | 2.0        | 114              |
| 2,3,7,8-TCDD        | 0.20    | 0.19    | 96     | 2,3,4,7,8-PeCDF-13C     | 2.0        | 99               |
| Total TCDD          |         |         |        | 1,2,3,7,8-PeCDD-13C     | 2.0        | 112              |
|                     |         |         |        | 1,2,3,4,7,8-HxCDF-13C   | 2.0        | 85               |
| 1,2,3,7,8-PeCDF     | 1.0     | 0.91    | 91     | 1,2,3,6,7,8-HxCDF-13C   | 2.0        | 95               |
| 2,3,4,7,8-PeCDF     | 1.0     | 0.92    | 92     | 2,3,4,6,7,8-HxCDF-13C   | 2.0        | 87               |
| Total PeCDF         |         |         |        | 1,2,3,7,8,9-HxCDF-13C   | 2.0        | 86               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDD-13C   | 2.0        | 73               |
| 1,2,3,7,8-PeCDD     | 1.0     | 0.85    | 85     | 1,2,3,6,7,8-HxCDD-13C   | 2.0        | 90               |
| Total PeCDD         |         |         |        | 1,2,3,4,6,7,8-HpCDF-13C | 2.0        | 79               |
|                     |         |         |        | 1,2,3,4,7,8,9-HpCDF-13C | 2.0        | 90               |
| 1,2,3,4,7,8-HxCDF   | 1.0     | 0.94    | 94     | 1,2,3,4,6,7,8-HpCDD-13C | 2.0        | 104              |
| 1,2,3,6,7,8-HxCDF   | 1.0     | 0.99    | 99     | OCDD-13C                | 4.0        | 72               |
| 2,3,4,6,7,8-HxCDF   | 1.0     | 0.93    | 93     |                         |            |                  |
| 1,2,3,7,8,9-HxCDF   | 1.0     | 0.94    | 94     | 1,2,3,4-TCDD-13C        | 2.0        | NA               |
| Total HxCDF         |         |         |        | 1,2,3,7,8,9-HxCDD-13C   | 2.0        | NA               |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,7,8-HxCDD   | 1.0     | 1.00    | 100    | 2,3,7,8-TCDD-37Cl4      | 0.20       | 83               |
| 1,2,3,6,7,8-HxCDD   | 1.0     | 0.92    | 92     |                         |            |                  |
| 1,2,3,7,8,9-HxCDD   | 1.0     | 1.1     | 106    |                         |            |                  |
| Total HxCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDF | 1.0     | 0.98    | 98     |                         |            |                  |
| 1,2,3,4,7,8,9-HpCDF | 1.0     | 0.97    | 97     |                         |            |                  |
| Total HpCDF         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDD | 1.0     | 0.89    | 89     |                         |            |                  |
| Total HpCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| OCDF                | 2.0     | 1.9     | 95     |                         |            |                  |
| OCDD                | 2.0     | 2.0     | 100    |                         |            |                  |

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
R = Recovery outside of target range

Y = RF averaging used in calculations  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Laboratory Control Spike Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample ID          | LCSD-111368               | Matrix      | Water            |
| Filename               | L240301A_13               | Dilution    | NA               |
| Total Amount Extracted | 972 mL                    | Extracted   | 02/28/2024 11:07 |
| ICAL ID                | L240204                   | Analyzed    | 03/01/2024 08:31 |
| CCal Filename(s)       | L240229A_16 & L240301A_16 | Injected By | JF               |
| Method Blank ID        | BLANK-111366              |             |                  |

| Native Isomers      | Qs (ng) | Qm (ng) | % Rec. | Internal Standards      | ng's Added | Percent Recovery |
|---------------------|---------|---------|--------|-------------------------|------------|------------------|
| 2,3,7,8-TCDF        | 0.20    | 0.17    | 84     | 2,3,7,8-TCDF-13C        | 2.0        | 99               |
| Total TCDF          |         |         |        | 2,3,7,8-TCDD-13C        | 2.0        | 85               |
|                     |         |         |        | 1,2,3,7,8-PeCDF-13C     | 2.0        | 117              |
| 2,3,7,8-TCDD        | 0.20    | 0.18    | 90     | 2,3,4,7,8-PeCDF-13C     | 2.0        | 100              |
| Total TCDD          |         |         |        | 1,2,3,7,8-PeCDD-13C     | 2.0        | 112              |
|                     |         |         |        | 1,2,3,4,7,8-HxCDF-13C   | 2.0        | 87               |
| 1,2,3,7,8-PeCDF     | 1.0     | 0.86    | 86     | 1,2,3,6,7,8-HxCDF-13C   | 2.0        | 96               |
| 2,3,4,7,8-PeCDF     | 1.0     | 0.89    | 89     | 2,3,4,6,7,8-HxCDF-13C   | 2.0        | 88               |
| Total PeCDF         |         |         |        | 1,2,3,7,8,9-HxCDF-13C   | 2.0        | 86               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDD-13C   | 2.0        | 75               |
| 1,2,3,7,8-PeCDD     | 1.0     | 0.81    | 81     | 1,2,3,6,7,8-HxCDD-13C   | 2.0        | 89               |
| Total PeCDD         |         |         |        | 1,2,3,4,6,7,8-HpCDF-13C | 2.0        | 75               |
|                     |         |         |        | 1,2,3,4,7,8,9-HpCDF-13C | 2.0        | 83               |
| 1,2,3,4,7,8-HxCDF   | 1.0     | 0.89    | 89     | 1,2,3,4,6,7,8-HpCDD-13C | 2.0        | 91               |
| 1,2,3,6,7,8-HxCDF   | 1.0     | 0.93    | 93     | OCDD-13C                | 4.0        | 64               |
| 2,3,4,6,7,8-HxCDF   | 1.0     | 0.91    | 91     |                         |            |                  |
| 1,2,3,7,8,9-HxCDF   | 1.0     | 0.92    | 92     | 1,2,3,4-TCDD-13C        | 2.0        | NA               |
| Total HxCDF         |         |         |        | 1,2,3,7,8,9-HxCDD-13C   | 2.0        | NA               |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,7,8-HxCDD   | 1.0     | 0.97    | 97     | 2,3,7,8-TCDD-37Cl4      | 0.20       | 94               |
| 1,2,3,6,7,8-HxCDD   | 1.0     | 0.88    | 88     |                         |            |                  |
| 1,2,3,7,8,9-HxCDD   | 1.0     | 1.0     | 102    |                         |            |                  |
| Total HxCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDF | 1.0     | 0.95    | 95     |                         |            |                  |
| 1,2,3,4,7,8,9-HpCDF | 1.0     | 0.91    | 91     |                         |            |                  |
| Total HpCDF         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDD | 1.0     | 0.84    | 84     |                         |            |                  |
| Total HpCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| OCDF                | 2.0     | 1.8     | 88     |                         |            |                  |
| OCDD                | 2.0     | 1.9     | 96     |                         |            |                  |

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
R = Recovery outside of target range

Y = RF averaging used in calculations  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

## REPORT OF LABORATORY ANALYSIS

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## Method 8290

### Spike Recovery Relative Percent Difference (RPD) Results

Client Weck Laboratories Inc

Spike 1 ID LCS-111367  
Spike 1 Filename L240301A\_12

Spike 2 ID LCSD-111368  
Spike 2 Filename L240301A\_13

| Compound            | Spike 1<br>%REC | Spike 2<br>%REC | %RPD |
|---------------------|-----------------|-----------------|------|
| 2,3,7,8-TCDF        | 94              | 84              | 11.2 |
| 2,3,7,8-TCDD        | 96              | 90              | 6.5  |
| 1,2,3,7,8-PeCDF     | 91              | 86              | 5.6  |
| 2,3,4,7,8-PeCDF     | 92              | 89              | 3.3  |
| 1,2,3,7,8-PeCDD     | 85              | 81              | 4.8  |
| 1,2,3,4,7,8-HxCDF   | 94              | 89              | 5.5  |
| 1,2,3,6,7,8-HxCDF   | 99              | 93              | 6.3  |
| 2,3,4,6,7,8-HxCDF   | 93              | 91              | 2.2  |
| 1,2,3,7,8,9-HxCDF   | 94              | 92              | 2.2  |
| 1,2,3,4,7,8-HxCDD   | 100             | 97              | 3.0  |
| 1,2,3,6,7,8-HxCDD   | 92              | 88              | 4.4  |
| 1,2,3,7,8,9-HxCDD   | 106             | 102             | 3.8  |
| 1,2,3,4,6,7,8-HpCDF | 98              | 95              | 3.1  |
| 1,2,3,4,7,8,9-HpCDF | 97              | 91              | 6.4  |
| 1,2,3,4,6,7,8-HpCDD | 89              | 84              | 5.8  |
| OCDF                | 95              | 88              | 7.7  |
| OCDD                | 100             | 96              | 4.1  |

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Rachael Morgan  
Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, California 92011

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## JOB DESCRIPTION

EWA Inf,MDLK Inf,CWRF Eff PP resample

## JOB NUMBER

570-209822-1



# Eurofins Calscience

## Job Notes

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## Authorization



Authorized for release by  
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## Definitions/Glossary

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                  |
|-----------|--------------------------------------------------------|
| S1-       | Surrogate recovery exceeds control limits, low biased. |

### Glossary

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

## Case Narrative

Client: Encina Wastewater Authority  
Project: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

**Job ID: 570-209822-1**

**Eurofins Calscience**

### **Job Narrative 570-209822-1**

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 12/5/2024 6:40 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 1.7°C.

#### **GC/MS Semi VOA**

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-511009. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1

Method 625.1: Surrogate recovery for the following sample was outside control limits: EWA INFLUENT (570-209822-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 625.1: The following samples were diluted due to the nature of the sample matrix: EWA INFLUENT (570-209822-1) and MDLK INFLUENT (570-209822-2). Elevated reporting limits (RLs) are provided.

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

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Detection Summary

Client: Encina Wastewater Authority

Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

Client Sample ID: EWA INFLUENT

Lab Sample ID: 570-209822-1

No Detections.

Client Sample ID: MDLK INFLUENT

Lab Sample ID: 570-209822-2

No Detections.

Client Sample ID: CWRF EFF

Lab Sample ID: 570-209822-3

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

## Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: EWA INFLUENT

Date Collected: 12/04/24 09:33

Date Received: 12/05/24 18:40

Lab Sample ID: 570-209822-1

Matrix: Water

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| 1,2-Diphenylhydrazine(as Azobenzene) | ND        |           | 47       | 3.5 | ug/L |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| N-Nitrosodiphenylamine               | ND        |           | 47       | 5.8 | ug/L |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| N-Nitrosodimethylamine               | ND        |           | 47       | 3.5 | ug/L |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |      |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol (Surr)          | 52        |           | 33 - 139 |     |      |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| 2-Fluorobiphenyl (Surr)              | 46        |           | 33 - 126 |     |      |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| 2-Fluorophenol (Surr)                | 21        |           | 12 - 120 |     |      |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| Nitrobenzene-d5 (Surr)               | 51        |           | 36 - 120 |     |      |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| Phenol-d6 (Surr)                     | 16        |           | 10 - 120 |     |      |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |
| p-Terphenyl-d14 (Surr)               | 46        | S1-       | 47 - 131 |     |      |   | 12/06/24 14:54 | 12/12/24 18:13 | 5       |

Client Sample ID: MDLK INFLUENT

Date Collected: 12/04/24 07:00

Date Received: 12/05/24 18:40

Lab Sample ID: 570-209822-2

Matrix: Water

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| 1,2-Diphenylhydrazine(as Azobenzene) | ND        |           | 48       | 3.5 | ug/L |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| N-Nitrosodiphenylamine               | ND        |           | 48       | 5.8 | ug/L |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| N-Nitrosodimethylamine               | ND        |           | 48       | 3.5 | ug/L |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |      |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol (Surr)          | 71        |           | 33 - 139 |     |      |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| 2-Fluorobiphenyl (Surr)              | 58        |           | 33 - 126 |     |      |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| 2-Fluorophenol (Surr)                | 24        |           | 12 - 120 |     |      |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| Nitrobenzene-d5 (Surr)               | 63        |           | 36 - 120 |     |      |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| Phenol-d6 (Surr)                     | 16        |           | 10 - 120 |     |      |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |
| p-Terphenyl-d14 (Surr)               | 56        |           | 47 - 131 |     |      |   | 12/06/24 14:54 | 12/12/24 17:24 | 5       |

Client Sample ID: CWRF EFF

Date Collected: 12/04/24 07:00

Date Received: 12/05/24 18:40

Lab Sample ID: 570-209822-3

Matrix: Water

| Analyte                              | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| 1,2-Diphenylhydrazine(as Azobenzene) | ND        |           | 9.6      | 0.71 | ug/L |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| N-Nitrosodiphenylamine               | ND        |           | 9.6      | 1.2  | ug/L |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| N-Nitrosodimethylamine               | ND        |           | 9.6      | 0.71 | ug/L |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol (Surr)          | 92        |           | 33 - 139 |      |      |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| 2-Fluorobiphenyl (Surr)              | 68        |           | 33 - 126 |      |      |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| 2-Fluorophenol (Surr)                | 33        |           | 12 - 120 |      |      |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| Nitrobenzene-d5 (Surr)               | 76        |           | 36 - 120 |      |      |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| Phenol-d6 (Surr)                     | 23        |           | 10 - 120 |      |      |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |
| p-Terphenyl-d14 (Surr)               | 76        |           | 47 - 131 |      |      |   | 12/06/24 14:54 | 12/12/24 14:35 | 1       |

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## Surrogate Summary

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

### Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

|                      |                        | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                  |                    |
|----------------------|------------------------|------------------------------------------------|-----------------|-----------------|-----------------|------------------|--------------------|
| Lab Sample ID        | Client Sample ID       | TBP<br>(33-139)                                | FBP<br>(33-126) | 2FP<br>(12-120) | NBZ<br>(36-120) | PHL6<br>(10-120) | TPHD14<br>(47-131) |
| 380-124754-J-1-A MS  | Matrix Spike           | 102                                            | 83              | 36              | 84              | 23               | 80                 |
| 380-124754-K-1-A MSD | Matrix Spike Duplicate | 95                                             | 75              | 38              | 78              | 27               | 79                 |
| 570-209822-1         | EWA INFLUENT           | 52                                             | 46              | 21              | 51              | 16               | 46 S1-             |
| 570-209822-2         | MDLK INFLUENT          | 71                                             | 58              | 24              | 63              | 16               | 56                 |
| 570-209822-3         | CWRF EFF               | 92                                             | 68              | 33              | 76              | 23               | 76                 |
| LCS 570-511009/2-A   | Lab Control Sample     | 99                                             | 83              | 55              | 84              | 38               | 85                 |
| LCSD 570-511009/3-A  | Lab Control Sample Dup | 97                                             | 77              | 56              | 81              | 40               | 83                 |
| MB 570-511009/1-A    | Method Blank           | 76                                             | 65              | 44              | 78              | 30               | 79                 |

#### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHD14 = p-Terphenyl-d14 (Surr)

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

## Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-511009/1-A

Matrix: Water

Analysis Batch: 513028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 511009

| Analyte                              | MB Result | MB Qualifier | RL | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|----|------|------|---|----------------|----------------|---------|
| 1,2-Diphenylhydrazine(as Azobenzene) | ND        |              | 10 | 0.74 | ug/L |   | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| N-Nitrosodiphenylamine               | ND        |              | 10 | 1.2  | ug/L |   | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| N-Nitrosodimethylamine               | ND        |              | 10 | 0.74 | ug/L |   | 12/06/24 14:54 | 12/12/24 11:22 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 76           |              | 33 - 139 | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| 2-Fluorobiphenyl (Surr)     | 65           |              | 33 - 126 | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| 2-Fluorophenol (Surr)       | 44           |              | 12 - 120 | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| Nitrobenzene-d5 (Surr)      | 78           |              | 36 - 120 | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| Phenol-d6 (Surr)            | 30           |              | 10 - 120 | 12/06/24 14:54 | 12/12/24 11:22 | 1       |
| p-Terphenyl-d14 (Surr)      | 79           |              | 47 - 131 | 12/06/24 14:54 | 12/12/24 11:22 | 1       |

Lab Sample ID: LCS 570-511009/2-A

Matrix: Water

Analysis Batch: 513028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 511009

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,2-Diphenylhydrazine(as Azobenzene) | 100         | 82.7       |               | ug/L |   | 83   | 57 - 120    |
| N-Nitrosodiphenylamine               | 100         | 104        |               | ug/L |   | 104  | 79 - 127    |
| N-Nitrosodimethylamine               | 100         | 55.5       |               | ug/L |   | 56   | 38 - 120    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 99            |               | 33 - 139 |
| 2-Fluorobiphenyl (Surr)     | 83            |               | 33 - 126 |
| 2-Fluorophenol (Surr)       | 55            |               | 12 - 120 |
| Nitrobenzene-d5 (Surr)      | 84            |               | 36 - 120 |
| Phenol-d6 (Surr)            | 38            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 85            |               | 47 - 131 |

Lab Sample ID: LCSD 570-511009/3-A

Matrix: Water

Analysis Batch: 513028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 511009

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,2-Diphenylhydrazine(as Azobenzene) | 100         | 76.2        |                | ug/L |   | 76   | 57 - 120    | 8   | 20        |
| N-Nitrosodiphenylamine               | 100         | 95.8        |                | ug/L |   | 96   | 79 - 127    | 8   | 20        |
| N-Nitrosodimethylamine               | 100         | 54.4        |                | ug/L |   | 54   | 38 - 120    | 2   | 20        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 97             |                | 33 - 139 |
| 2-Fluorobiphenyl (Surr)     | 77             |                | 33 - 126 |
| 2-Fluorophenol (Surr)       | 56             |                | 12 - 120 |
| Nitrobenzene-d5 (Surr)      | 81             |                | 36 - 120 |
| Phenol-d6 (Surr)            | 40             |                | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 83             |                | 47 - 131 |

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# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

## Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-124754-J-1-A MS

Matrix: Water

Analysis Batch: 513028

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 511009

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,2-Diphenylhydrazine(as Azobenzene) | ND            |                  | 95.1        | 77.1      |              | ug/L |   | 81   | 60 - 140    |
| N-Nitrosodiphenylamine               | ND            |                  | 95.1        | 94.8      |              | ug/L |   | 100  | 50 - 110    |
| N-Nitrosodimethylamine               | ND            |                  | 95.1        | 30.1      |              | ug/L |   | 32   | 25 - 110    |
| Surrogate                            | MS %Recovery  | MS Qualifier     | MS Limits   |           |              |      |   |      |             |
| 2,4,6-Tribromophenol (Surr)          | 102           |                  | 33 - 139    |           |              |      |   |      |             |
| 2-Fluorobiphenyl (Surr)              | 83            |                  | 33 - 126    |           |              |      |   |      |             |
| 2-Fluorophenol (Surr)                | 36            |                  | 12 - 120    |           |              |      |   |      |             |
| Nitrobenzene-d5 (Surr)               | 84            |                  | 36 - 120    |           |              |      |   |      |             |
| Phenol-d6 (Surr)                     | 23            |                  | 10 - 120    |           |              |      |   |      |             |
| p-Terphenyl-d14 (Surr)               | 80            |                  | 47 - 131    |           |              |      |   |      |             |

Lab Sample ID: 380-124754-K-1-A MSD

Matrix: Water

Analysis Batch: 513028

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 511009

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,2-Diphenylhydrazine(as Azobenzene) | ND            |                  | 95.1        | 70.2       |               | ug/L |   | 74   | 60 - 140    | 9   | 30        |
| N-Nitrosodiphenylamine               | ND            |                  | 95.1        | 90.1       |               | ug/L |   | 95   | 50 - 110    | 5   | 30        |
| N-Nitrosodimethylamine               | ND            |                  | 95.1        | 34.6       |               | ug/L |   | 36   | 25 - 110    | 14  | 30        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | MSD Limits  |            |               |      |   |      |             |     |           |
| 2,4,6-Tribromophenol (Surr)          | 95            |                  | 33 - 139    |            |               |      |   |      |             |     |           |
| 2-Fluorobiphenyl (Surr)              | 75            |                  | 33 - 126    |            |               |      |   |      |             |     |           |
| 2-Fluorophenol (Surr)                | 38            |                  | 12 - 120    |            |               |      |   |      |             |     |           |
| Nitrobenzene-d5 (Surr)               | 78            |                  | 36 - 120    |            |               |      |   |      |             |     |           |
| Phenol-d6 (Surr)                     | 27            |                  | 10 - 120    |            |               |      |   |      |             |     |           |
| p-Terphenyl-d14 (Surr)               | 79            |                  | 47 - 131    |            |               |      |   |      |             |     |           |

## QC Association Summary

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

### GC/MS Semi VOA

#### Prep Batch: 511009

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 570-209822-1         | EWA INFLUENT           | Total/NA  | Water  | 625.1  |            |
| 570-209822-2         | MDLK INFLUENT          | Total/NA  | Water  | 625.1  |            |
| 570-209822-3         | CWRF EFF               | Total/NA  | Water  | 625.1  |            |
| MB 570-511009/1-A    | Method Blank           | Total/NA  | Water  | 625.1  |            |
| LCS 570-511009/2-A   | Lab Control Sample     | Total/NA  | Water  | 625.1  |            |
| LCSD 570-511009/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 625.1  |            |
| 380-124754-J-1-A MS  | Matrix Spike           | Total/NA  | Water  | 625.1  |            |
| 380-124754-K-1-A MSD | Matrix Spike Duplicate | Total/NA  | Water  | 625.1  |            |

#### Analysis Batch: 513028

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 570-209822-1         | EWA INFLUENT           | Total/NA  | Water  | 625.1  | 511009     |
| 570-209822-2         | MDLK INFLUENT          | Total/NA  | Water  | 625.1  | 511009     |
| 570-209822-3         | CWRF EFF               | Total/NA  | Water  | 625.1  | 511009     |
| MB 570-511009/1-A    | Method Blank           | Total/NA  | Water  | 625.1  | 511009     |
| LCS 570-511009/2-A   | Lab Control Sample     | Total/NA  | Water  | 625.1  | 511009     |
| LCSD 570-511009/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 625.1  | 511009     |
| 380-124754-J-1-A MS  | Matrix Spike           | Total/NA  | Water  | 625.1  | 511009     |
| 380-124754-K-1-A MSD | Matrix Spike Duplicate | Total/NA  | Water  | 625.1  | 511009     |

Lab Chronicle

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

Client Sample ID: EWA INFLUENT  
Date Collected: 12/04/24 09:33  
Date Received: 12/05/24 18:40

Lab Sample ID: 570-209822-1  
Matrix: Water

| Prep Type             | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|-----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA              | Prep       | 625.1        |     |            | 1053.2 mL      | 2 mL         | 511009       | 12/06/24 14:54       | UD4J    | EET CAL 4 |
| Total/NA              | Analysis   | 625.1        |     | 5          | 1 mL           | 1 mL         | 513028       | 12/12/24 18:13       | CG      | EET CAL 4 |
| Instrument ID: GCMSTT |            |              |     |            |                |              |              |                      |         |           |

Client Sample ID: MDLK INFLUENT  
Date Collected: 12/04/24 07:00  
Date Received: 12/05/24 18:40

Lab Sample ID: 570-209822-2  
Matrix: Water

| Prep Type             | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|-----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA              | Prep       | 625.1        |     |            | 1050.8 mL      | 2 mL         | 511009       | 12/06/24 14:54       | UD4J    | EET CAL 4 |
| Total/NA              | Analysis   | 625.1        |     | 5          | 1 mL           | 1 mL         | 513028       | 12/12/24 17:24       | CG      | EET CAL 4 |
| Instrument ID: GCMSTT |            |              |     |            |                |              |              |                      |         |           |

Client Sample ID: CWRF EFF  
Date Collected: 12/04/24 07:00  
Date Received: 12/05/24 18:40

Lab Sample ID: 570-209822-3  
Matrix: Water

| Prep Type             | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|-----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA              | Prep       | 625.1        |     |            | 1046.1 mL      | 2 mL         | 511009       | 12/06/24 14:54       | UD4J    | EET CAL 4 |
| Total/NA              | Analysis   | 625.1        |     | 1          | 1 mL           | 1 mL         | 513028       | 12/12/24 14:35       | CG      | EET CAL 4 |
| Instrument ID: GCMSTT |            |              |     |            |                |              |              |                      |         |           |

Laboratory References:  
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

| Authority  | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| California | State   | 3082                  | 07-31-26        |
| Oregon     | NELAP   | 4175                  | 02-02-25        |

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## Method Summary

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

| Method | Method Description                     | Protocol  | Laboratory |
|--------|----------------------------------------|-----------|------------|
| 625.1  | Semivolatile Organic Compounds (GC/MS) | EPA       | EET CAL 4  |
| 625.1  | Liquid-Liquid Extraction               | 40CFR136A | EET CAL 4  |

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

Client: Encina Wastewater Authority  
Project/Site: EWA Inf,MDLK Inf,CWRF Eff PP resample

Job ID: 570-209822-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 570-209822-1  | EWA INFLUENT     | Water  | 12/04/24 09:33 | 12/05/24 18:40 |
| 570-209822-2  | MDLK INFLUENT    | Water  | 12/04/24 07:00 | 12/05/24 18:40 |
| 570-209822-3  | CWRF EFF         | Water  | 12/04/24 07:00 | 12/05/24 18:40 |

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## Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-209822-1

Login Number: 209822

List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |



eSMR PDF Report

Summary: Semi-Annual SMR ( MONNPDES ) report for H1 2024

Summary: Semi-Annual SMR ( MONNPDES ) report for H1 2024 submitted by Octavio Navarrete (Chief Plant Operator) on 07/26/2024.

**Facility Name:** Carlsbad WRF   
 \*\*/\*\* Encina Ocean Outfall   
 \*\*/\*\* Encina Water Pollution Control   
 Facility   
 \*\*/\*\* Vallecitos WD Meadowlark WRP

**Order Number:** R9-2018-0059   
**Case Worker:** Joann L Lim

**Waterboard Office:** Region 9 - San Diego   
 \*\*/\*\* Region 9 - San Diego   
 \*\*/\*\* Region 9 - San Diego   
 \*\*/\*\* Region 9 - San Diego

**Report Effective Dates:** 01/01/2024 - 06/30/2024

No Discharge Periods

| Name                     | Description                   | Dates | Comments                       |
|--------------------------|-------------------------------|-------|--------------------------------|
| Encina Ocean Outfall 001 | POTW Effluent and waste brine |       | No Discharge Flows from M-005. |

Self-Determined Violations

No Violations Entered

Attachments

No Attachments Available

Cover Letter

| Title                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|
| SDRWQCB,<br><br>Attached is the January-June 2024 Semi Annual NPDES Monitoring Report.<br><br>Sincerely,<br><br>EWA Staff |

Data Summary

Analytical Results

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .19<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0404<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane E624 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .15<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane E624 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0319<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane E624   | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .16<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane E624   | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0341<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene E624    | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0447<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene E624    | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .21<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .27<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0575<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane E624      | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .17<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane E624      | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0362<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .1064<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0383<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .18<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0383<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene E624     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .18<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .4<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0851<br>-<br>.4257 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD E625                 | 01/24/2024 07:10:00<br>02/05/2024       | -<br>1<br>-                   | ND ug/L       | .003<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD E625                 | 01/24/2024 07:10:00<br>02/05/2024       | -<br>1<br>-                   | ND lb/day     | .0004<br>-<br>.0011 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE E625                 | 01/24/2024 07:10:00<br>02/05/2024       | -<br>1<br>-                   | ND lb/day     | .0004<br>-<br>.0011 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|---------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE<br>E625                    | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>E625                    | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>E625                    | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0006<br>-<br>.0011   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>E625          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | 2<br>-<br>5           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>E625          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .4257<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>E625         | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1916<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>E625         | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>5          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>E625      | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | 1.0642<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>E625      | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | 5<br>-<br>5           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>E625                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0021<br>-<br>.01     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>E625                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0008<br>-<br>.0021   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>E625                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0009<br>-<br>.01     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>E625                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0002<br>-<br>.0021   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>E625                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0021   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>E625                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0021<br>-<br>.01     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>E625 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | 2<br>-<br>5           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>E625 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .4257<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>E625             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.2        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>E625             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0043<br>-<br>.0426   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|---------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Acrolein E624                      | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .81<br>-<br>2         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrolein E624                      | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .1724<br>-<br>.4257   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile E624                 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .1596<br>-<br>.4257   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile E624                 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .75<br>-<br>2         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin E625                        | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .0014<br>-<br>.005    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin E625                        | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0003<br>-<br>.0011   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .03<br>-<br>.3        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0064<br>-<br>.0639   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND ug/L       | 6<br>-<br>12          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND lb/day     | 1.277<br>-<br>2.554   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable E200.7  | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND lb/day     | 1.0642<br>-<br>2.1284 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable E200.7  | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND ug/L       | 5<br>-<br>10          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene E624                       | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L       | .18<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene E624                       | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day     | .0383<br>-<br>.1064   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzydine E625                     | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | 4<br>-<br>5           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzydine E625                     | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .8513<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene E625            | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .05<br>-<br>.3        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene E625            | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0106<br>-<br>.0639   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .04<br>-<br>.3        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method        | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene E625                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0085<br>-<br>.0639  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene E625           | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.3       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene E625           | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0106<br>-<br>.0639  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene E625             | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0106<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene E625             | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene E625           | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .02<br>-<br>.3       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene E625           | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0043<br>-<br>.0639  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable E200.8 | 01/24/2024 07:00:00<br>01/31/2024       | -<br>1<br>-                   | DNQ 0.45<br>ug/L    | .22<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable E200.8 | 01/24/2024 07:00:00<br>01/31/2024       | -<br>1<br>-                   | DNQ 0.096<br>lb/day | .0468<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum E625                       | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .0112<br>-<br>.03    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum E625                       | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0024<br>-<br>.0064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .5<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .1064<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .9<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .1916<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether E625  | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .9<br>-<br>2         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether E625  | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .1916<br>-<br>.4257  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L          | .5<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day        | .1064<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units  | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|----------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Bromoform E624                     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L        | .15<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromoform E624                     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day      | .0319<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane E624                  | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L        | .13<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane E624                  | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day      | .0277<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable E200.7  | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND ug/L        | 3<br>-<br>6          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable E200.7  | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND lb/day      | .6385<br>-<br>1.277  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride E624          | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day      | .0447<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride E624          | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L        | .21<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane E625                     | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L        | .0034<br>-<br>.01    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane E625                     | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day      | .0007<br>-<br>.0021  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene E624                 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day      | .0383<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene E624                 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L        | .18<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform E624                    | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | = 1.1 ug/L     | .17<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform E624                    | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | = 0.234 lb/day | .0362<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane E624                 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND lb/day      | .0979<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane E624                 | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND ug/L        | .46<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND ug/L        | 2.7<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND lb/day      | .5747<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chrysene E625                      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day      | .0106<br>-<br>.0639  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method                     | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Chrysene<br>E625                                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.3       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>E624                  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .09<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>E624                  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0192<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>E200.8              | 02/08/2024<br>07:00:00<br>02/15/2024    | -<br>1<br>-                   | = 1.03<br>lb/day    | .077<br>-<br>.1675   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>E200.8              | 02/08/2024<br>07:00:00<br>02/15/2024    | -<br>1<br>-                   | = 3.1<br>ug/L       | .23<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>DU                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .5321<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>DU                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | 2.5<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>E625 | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>lb/day        | .007<br>-<br>.0096   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>E625 | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L          | .031<br>-<br>.045    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>E625                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0851<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>E625                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .4<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>E625                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>E625                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0106<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>E624                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .17<br>-<br>.25      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>E624                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0362<br>-<br>.0532  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>E624                    | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .45<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>E624                    | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0958<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>E624                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | DNQ 0.16<br>ug/L    | .08<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>E624                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | DNQ 0.034<br>lb/day | .017<br>-<br>.1064   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Dieldrin E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dieldrin E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .0017<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate E625       | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>.4257 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate E625       | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>.4257 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum E625        | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .0076<br>-<br>.03   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum E625        | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0016<br>-<br>.0064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin E625                  | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0006<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin E625                  | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene E624            | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0213<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene E624            | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .1<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene E625            | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene E625            | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0043<br>-<br>.0106 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0043<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum E624       | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .74<br>-<br>1.5     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum E624       | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1575<br>-<br>.3193 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor E625              | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .0031<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |



| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method      | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units     | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------|-----------------------------------------|-------------------------------|-------------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Heptachlor E625                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0007<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide E625           | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide E625           | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0006<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene E625            | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .2128<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene E625            | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | 1<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene E625          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0851<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene E625          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .4<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene E625    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .1916<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene E625    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .9<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane E625             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .4<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane E625             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0851<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene E625     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0106<br>-<br>.0106 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene E625     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .05<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone E625                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone E625                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .1064<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable E200.8    | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | = 0.22<br>ug/L    | .12<br>-<br>.2      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable E200.8    | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | = 0.047<br>lb/day | .0255<br>-<br>.0426 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable E245.1 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .12<br>-<br>.2      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable E245.1 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0255<br>-<br>.0426 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method     | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|----------------------------------|-----------------------------------------|-------------------------------|---------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride E624          | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1043<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride E624          | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .49<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine E625   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .149<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .7<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .149<br>-<br>.2128   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine E625      | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .7<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | 3<br>-<br>6          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .6385<br>-<br>1.277  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene E625                | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1242 E625                    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method                  | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|---------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | PCB-1242 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1254 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1254 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260 E625                                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene E625                             | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0043<br>-<br>.0106  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene E625                             | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .02<br>-<br>.05      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated E625                     | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | 2.7<br>-<br>11       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated E625                     | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .5747<br>-<br>2.3412 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated E625                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | 7.4<br>-<br>33       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated E625                 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | 1.575<br>-<br>7.0236 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs), Sum E625    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .21<br>-<br>.7       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs), Sum E625    | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0447<br>-<br>.149   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs) E625 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .1<br>-<br>.5215     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs) E625 | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .47<br>-<br>2.45     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene E625                                   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND ug/L       | .02<br>-<br>.05      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene E625                                   | 01/24/2024 07:10:00<br>02/02/2024       | -<br>1<br>-                   | ND lb/day     | .0043<br>-<br>.0106  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units        | MDL, ML, RL            | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|----------------------|------------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Radiation, Gross Alpha E900        | 01/24/2024<br>07:10:00<br>02/12/2024    | -<br>1<br>-                   | = 3.08<br>PCi/L      | -<br>-<br>-            | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Radiation, Gross Beta E900         | 01/24/2024<br>07:10:00<br>02/12/2024    | -<br>1<br>-                   | = 14.5<br>PCi/L      | -<br>-<br>-            | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Radioactivity E900                 | 01/24/2024<br>07:10:00<br>02/12/2024    | -<br>1<br>-                   | = 17.58<br>PCi/L     | -<br>-<br>-            | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable E200.8 | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.362<br>lb/day  | .1107<br>-<br>.4257    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable E200.8 | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 1.7<br>ug/L      | .52<br>-<br>2          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable E200.7   | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | ND<br>lb/day         | .7236<br>-<br>2.1284   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable E200.7   | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | ND<br>ug/L           | 3.4<br>-<br>10         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents SW8280            | 06/03/2024<br>07:00:00<br>06/10/2024    | -<br>1<br>-                   | ND<br>lb/day         | 0<br>-<br>.0001        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents SW8280            | 06/03/2024<br>07:00:00<br>06/10/2024    | -<br>1<br>-                   | ND<br>ug/L           | .00005<br>-<br>.0005   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene E624             | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L           | .19<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene E624             | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day         | .0404<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable E200.8 | 01/24/2024<br>07:00:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.11<br>ug/L     | .11<br>-<br>1          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable E200.8 | 01/24/2024<br>07:00:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.0234<br>lb/day | .0234<br>-<br>.2128368 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene E624                       | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day         | .0404<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene E624                       | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L           | .19<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene E625                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day         | .0851<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene E625                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L           | .4<br>-<br>.5          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT) DU               | 01/24/2024<br>07:10:00<br>02/21/2024    | -<br>1<br>-                   | ND<br>ug/L           | .0023<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT) DU               | 01/24/2024<br>07:10:00<br>02/21/2024    | -<br>1<br>-                   | ND<br>lb/day         | .0005<br>-<br>.0011    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units   | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------|-----------------------------------------|-------------------------------|-----------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Trichloroethene E624           | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day    | .0426<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene E624           | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L      | .2<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride E624            | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day    | .0532<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride E624            | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L      | .25<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | = 16<br>ug/L    | 6<br>-<br>12        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable E200.7 | 01/24/2024 07:00:00<br>02/08/2024       | -<br>1<br>-                   | = 3.4<br>lb/day | 1.277<br>-<br>2.554 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

### Calculated Values

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type              | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane 30-Day Average     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .19<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane 30-Day Average     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0404<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane 30-Day Average | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .15<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane 30-Day Average | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0319<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane 30-Day Average     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .16<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane 30-Day Average     | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0341<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene 30-Day Average      | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0447<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene 30-Day Average      | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .21<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene 30-Day Average       | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .27<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene 30-Day Average       | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0575<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane 30-Day Average        | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>ug/L    | .17<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane 30-Day Average        | 01/24/2024 07:25:00<br>01/27/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0362<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type             | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------|-----------------------------------------|-------------------------------|---------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>.2128   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene<br>30-Day Average   | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene<br>30-Day Average   | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0383<br>-<br>.1064   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene<br>30-Day Average   | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0383<br>-<br>.1064   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene<br>30-Day Average   | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>2          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0851<br>-<br>.4257   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD<br>30-Day Average               | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0011   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD<br>30-Day Average               | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L    | .003<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE<br>30-Day Average               | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE<br>30-Day Average               | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0011   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>30-Day Average               | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0006<br>-<br>.0011   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>30-Day Average               | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>30-Day Average     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | 2<br>-<br>5           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>30-Day Average     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .4257<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>30-Day Average    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>5          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>30-Day Average    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1916<br>-<br>1.0642  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | 1.0642<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                  | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units    | MDL, ML, RL              | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|----------------------------------------------|-----------------------------------------|-------------------------------|------------------|--------------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>30-Day Average      | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | 5<br>-<br>5              | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0021<br>-<br>.01        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0008<br>-<br>.0021      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0002<br>-<br>.0021      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0009<br>-<br>.01        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0021<br>-<br>.01        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0004<br>-<br>.0021      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | 2<br>-<br>5              | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .4257<br>-<br>1.0642     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>30-Day Average             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .02<br>-<br>.2           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>30-Day Average             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0043<br>-<br>.0426      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrolein<br>30-Day Average                   | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L       | .81<br>-<br>2            | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrolein<br>30-Day Average                   | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day     | .1724<br>-<br>.4257      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile<br>30-Day Average              | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day     | .1596<br>-<br>.4257      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile<br>30-Day Average              | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L       | .75<br>-<br>2            | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin<br>30-Day Average                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0003<br>-<br>.0011      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin<br>30-Day Average                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0014<br>-<br>.005       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median      | 01/10/2024<br>07:00:00<br>01/11/2024    | -<br>2<br>-                   | = 40000<br>ug/L  | 800<br>-<br>420          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median      | 01/10/2024<br>07:00:00<br>01/11/2024    | -<br>1<br>-                   | = 8053<br>lb/day | 161.0659<br>-<br>84.5596 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units    | MDL, ML, RL              | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|------------------|--------------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median       | 01/10/2024<br>07:00:00<br>01/11/2024    | -<br>1<br>-                   | = 40000<br>ug/L  | 800<br>-<br>420          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median       | 01/10/2024<br>07:00:00<br>01/11/2024    | -<br>2<br>-                   | = 8053<br>lb/day | 161.0659<br>-<br>84.5596 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0064<br>-<br>.0639      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .03<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable<br>30-Day Average | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | 6<br>-<br>12             | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable<br>30-Day Average | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | 1.277<br>-<br>2.554      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable<br>6-Month Median  | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | 1.0642<br>-<br>2.1284    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable<br>6-Month Median  | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | 5<br>-<br>10             | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L       | .18<br>-<br>.5           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0383<br>-<br>.1064      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzidine<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | 4<br>-<br>5              | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzidine<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .8513<br>-<br>1.0642     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene<br>30-Day Average          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0106<br>-<br>.0639      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene<br>30-Day Average          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene<br>30-Day Average              | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .04<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene<br>30-Day Average              | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0085<br>-<br>.0639      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene<br>30-Day Average        | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene<br>30-Day Average        | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0106<br>-<br>.0639      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene<br>30-Day Average          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0106<br>-<br>.0213      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |



| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                     | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-------------------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene<br>30-Day Average            | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene<br>30-Day Average          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .02<br>-<br>.3       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene<br>30-Day Average          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0043<br>-<br>.0639  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable<br>30-Day Average  | 01/24/2024<br>07:00:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.096<br>lb/day | .0468<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable<br>30-Day Average  | 01/24/2024<br>07:00:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.45<br>ug/L    | .22<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum<br>6-Month Median                      | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .0112<br>-<br>.03    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum<br>6-Month Median                      | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0024<br>-<br>.0064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .5<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1064<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether<br>30-Day Average     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .9<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether<br>30-Day Average     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1916<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1916<br>-<br>.4257  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .9<br>-<br>2         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .5<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1064<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromoform<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0319<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromoform<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .15<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane<br>30-Day Average                  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .13<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane<br>30-Day Average                  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0277<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units     | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|-------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable<br>6-Month Median  | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>lb/day      | .6385<br>-<br>1.277  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable<br>6-Month Median  | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>ug/L        | 3<br>-<br>6          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride<br>30-Day Average        | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L        | .21<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride<br>30-Day Average        | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0447<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0007<br>-<br>.0021  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .0034<br>-<br>.01    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene<br>30-Day Average               | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L        | .18<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene<br>30-Day Average               | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0383<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform<br>30-Day Average                  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | = 0.234<br>lb/day | .0362<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform<br>30-Day Average                  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | = 1.1<br>ug/L     | .17<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane<br>30-Day Average               | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0979<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane<br>30-Day Average               | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L        | .46<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable<br>6-Month Median | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>ug/L        | 2.7<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable<br>6-Month Median | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>lb/day      | .5747<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chrysene<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0106<br>-<br>.0639  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Chrysene<br>30-Day Average                    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .05<br>-<br>.3       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>30-Day Average     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L        | .09<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>30-Day Average     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0192<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>6-Month Median   | 02/08/2024<br>07:00:00<br>02/15/2024    | -<br>1<br>-                   | = 1.03<br>lb/day  | .077<br>-<br>.1675   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                                | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>6-Month Median                | 02/08/2024<br>07:00:00<br>02/15/2024    | -<br>1<br>-                   | = 3.1<br>ug/L       | .23<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>6-Month Median                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | 2.5<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>6-Month Median                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .5321<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>ug/L          | .031<br>-<br>.045    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/05/2024    | -<br>1<br>-                   | ND<br>lb/day        | .007<br>-<br>.0096   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>30-Day Average                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .4<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>30-Day Average                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0851<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0106<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .17<br>-<br>.25      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0362<br>-<br>.0532  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>30-Day Average                    | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0958<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>30-Day Average                    | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L          | .45<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | DNQ 0.034<br>lb/day | .017<br>-<br>.1064   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | DNQ 0.16<br>ug/L    | .08<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dieldrin<br>30-Day Average                                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0004<br>-<br>.0021  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dieldrin<br>30-Day Average                                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .0017<br>-<br>.01    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate<br>30-Day Average                        | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .5<br>-<br>2         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate<br>30-Day Average                        | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1064<br>-<br>.4257  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type          | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>.4257 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum<br>6-Month Median   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0076<br>-<br>.03   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum<br>6-Month Median   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0016<br>-<br>.0064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin<br>6-Month Median             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0006<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin<br>6-Month Median             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene<br>30-Day Average       | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L    | .1<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene<br>30-Day Average       | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0213<br>-<br>.1064 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene<br>30-Day Average       | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene<br>30-Day Average       | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0043<br>-<br>.0106 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene<br>30-Day Average           | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene<br>30-Day Average           | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0043<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum<br>30-Day Average  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L    | .74<br>-<br>1.5     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum<br>30-Day Average  | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1575<br>-<br>.3193 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor<br>30-Day Average         | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0007<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor<br>30-Day Average         | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0031<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0006<br>-<br>.0021 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | 1<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                  | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units     | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|----------------------------------------------|-----------------------------------------|-------------------------------|-------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene<br>30-Day Average          | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .2128<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene<br>30-Day Average        | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0851<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene<br>30-Day Average        | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .4<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .9<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .1916<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane<br>30-Day Average           | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .4<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane<br>30-Day Average           | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0851<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene<br>30-Day Average   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0106<br>-<br>.0106  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene<br>30-Day Average   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .05<br>-<br>.05      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone<br>30-Day Average                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .5<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone<br>30-Day Average                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .1064<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable<br>6-Month Median    | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | = 0.22<br>ug/L    | .12<br>-<br>.2       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable<br>6-Month Median    | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | = 0.047<br>lb/day | .0255<br>-<br>.0426  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable<br>6-Month Median | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .0255<br>-<br>.0426  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable<br>6-Month Median | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .12<br>-<br>.2       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride<br>30-Day Average         | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L        | .49<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride<br>30-Day Average         | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day      | .1043<br>-<br>.1064  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L        | .5<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine<br>30-Day Average  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day      | .1064<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                 | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|---------------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine<br>30-Day Average    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .149<br>-<br>1.0642 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine<br>30-Day Average    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .7<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine<br>30-Day Average    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .7<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine<br>30-Day Average    | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .149<br>-<br>.2128  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable<br>6-Month Median | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .6385<br>-<br>1.277 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable<br>6-Month Median | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 3<br>-<br>6         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene<br>30-Day Average              | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene<br>30-Day Average              | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1064<br>-<br>.2128 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1242<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1242<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1254<br>30-Day Average                  | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0064<br>-<br>.0213 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                                | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | PCB-1254<br>30-Day Average                                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260<br>30-Day Average                                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0064<br>-<br>.0213  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260<br>30-Day Average                                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene<br>30-Day Average                             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0043<br>-<br>.0106  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene<br>30-Day Average                             | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .02<br>-<br>.05      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated<br>6-Month Median                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | 2.7<br>-<br>11       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated<br>6-Month Median                     | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .5747<br>-<br>2.3412 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated<br>6-Month Median                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | 7.4<br>-<br>33       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated<br>6-Month Median                 | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | 1.575<br>-<br>7.0236 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs),<br>Sum<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .21<br>-<br>.7       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs),<br>Sum<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0447<br>-<br>.149   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs)<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .47<br>-<br>2.45     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs)<br>30-Day Average | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1<br>-<br>.5215     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene<br>30-Day Average                                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0043<br>-<br>.0106  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene<br>30-Day Average                                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L          | .02<br>-<br>.05      | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable<br>6-Month Median              | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 1.7<br>ug/L     | .52<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable<br>6-Month Median              | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.362<br>lb/day | .1107<br>-<br>.4257  | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable<br>6-Month Median                | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | ND<br>lb/day        | .7236<br>-<br>2.1284 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable<br>6-Month Median                | 01/24/2024<br>07:10:00<br>01/31/2024    | -<br>1<br>-                   | ND<br>ug/L          | 3.4<br>-<br>10       | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units           | MDL, ML, RL            | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|-------------------------|------------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents<br>30-Day Average            | 06/03/2024<br>07:00:00<br>06/10/2024    | -<br>1<br>-                   | ND<br>ug/L              | .00005<br>-<br>.0005   | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents<br>30-Day Average            | 06/03/2024<br>07:00:00<br>06/10/2024    | -<br>1<br>-                   | ND<br>lb/day            | 0<br>-<br>.0001        | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene<br>30-Day Average           | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L              | .19<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene<br>30-Day Average           | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day            | .0404<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable<br>30-Day Average | 01/24/2024<br>07:00:00<br>01/31/2024    | -<br>1<br>-                   | DNQ 0.11<br>ug/L        | .11<br>-<br>1          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable<br>30-Day Average | 01/24/2024<br>07:00:00<br>01/31/2024    | -<br>1<br>-                   | DNQ<br>0.0234<br>lb/day | .0234<br>-<br>.2128368 | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L              | .19<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene<br>30-Day Average                     | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day            | .0404<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>ug/L              | .4<br>-<br>.5          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene<br>30-Day Average                   | 01/24/2024<br>07:10:00<br>02/02/2024    | -<br>1<br>-                   | ND<br>lb/day            | .0851<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT)<br>30-Day Average           | 01/24/2024<br>07:10:00<br>02/21/2024    | -<br>1<br>-                   | ND<br>ug/L              | .0023<br>-<br>.005     | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT)<br>30-Day Average           | 01/24/2024<br>07:10:00<br>02/21/2024    | -<br>1<br>-                   | ND<br>lb/day            | .0005<br>-<br>.0011    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene<br>30-Day Average             | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day            | .0426<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene<br>30-Day Average             | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L              | .2<br>-<br>.5          | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride<br>30-Day Average              | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>lb/day            | .0532<br>-<br>.1064    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride<br>30-Day Average              | 01/24/2024<br>07:25:00<br>01/27/2024    | -<br>1<br>-                   | ND<br>ug/L              | .25<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable<br>6-Month Median     | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | = 3.4<br>lb/day         | 1.277<br>-<br>2.554    | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable<br>6-Month Median     | 01/24/2024<br>07:00:00<br>02/08/2024    | -<br>1<br>-                   | = 16<br>ug/L            | 6<br>-<br>12           | No<br>-                   |          | CDF_Analytical_Calculated_07232024.zip |

## Lab Batches

No Lab Batch Data Available / Reported



**Questionnaire**

No Questionnaire Available

**Certificate**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I certify that I am Octavio Navarrete and am authorized to submit this report on behalf of Carlsbad WRF / Encina Ocean Outfall / Encina Water Pollution Control Facility / Vallecitos WD Meadowlark WRP. I understand that I am submitting the following report(s):

- Semi-Annual SMR ( MONNPDES ) report for H1 2024 (due 08/01/2024)

I understand that data submitted in this report(s) can be used by authorized agencies for water quality management related analyses and enforcement actions, if required.

I am also aware that my user ID, password, and answer to a challenge question constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that my electronic signature is the legal equivalent of my handwritten signature. I certify that I have not violated any term in my Electronic Signature Agreement and that I am otherwise without any reason to believe that the confidentiality of my password and challenge question answers have been compromised now or at any time prior to this submission. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal environmental program and must be true to the best of my knowledge.

**Name:** Octavio Navarrete

**Title:** Chief Plant Operator

eSMR PDF Report

Summary: Semi-Annual SMR ( MONNPDES ) report for H2 2024

Summary: Semi-Annual SMR ( MONNPDES ) report for H2 2024 submitted by Octavio Navarrete (Chief Plant Operator) on 01/29/2025.

Facility Name:

Carlsbad WRF \*\*/\*\* Encina Ocean Outfall  
\*\*/\*\* Encina Water Pollution Control  
Facility \*\*/\*\* Vallecitos WD Meadowlark WRP

Order Number:

R9-2018-0059

Case Worker:

Joann Lim

Waterboard Office:

Region 9 - San Diego \*\*/\*\* Region 9  
- San Diego \*\*/\*\* Region 9 - San  
Diego \*\*/\*\* Region 9 - San Diego

Report Effective Dates:

07/01/2024 - 12/31/2024

No Discharge Periods

| Name                     | Description                   | Dates | Comments      |
|--------------------------|-------------------------------|-------|---------------|
| Encina Ocean Outfall 001 | POTW Effluent and waste brine |       | No Flows M005 |

Self-Determined Violations

No Violations Entered

Attachments

No Attachments Available

Cover Letter

| Title                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------|
| SDRWQCB,<br><br>Attached is the July-December 2024 Semi Annual NPDES Monitoring Report.<br><br>Sincerely,<br><br>EWA Staff |

Data Summary

Analytical Results

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND ug/L       | .46<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND lb/day     | .081<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane E624 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND lb/day     | .0406<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane E624 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND ug/L       | .23<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane E624   | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .24<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane E624   | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .042<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene E624    | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .41<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene E624    | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .073<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .27<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0477<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane E624      | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .17<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane E624      | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .03<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0318<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0318<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene E624     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0707<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD E625                 | 07/24/2024 08:00:00<br>08/07/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD E625                 | 07/24/2024 08:00:00<br>08/07/2024       | -<br>1<br>-                   | ND<br>ug/L    | .003<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE E625                 | 07/24/2024 08:00:00<br>08/07/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE<br>E625                    | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>E625                    | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>E625                    | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>E625          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 2<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>E625          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .353<br>-<br>.884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>E625         | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>E625         | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>E625      | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .8836<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>E625      | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 5<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>E625                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>E625                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0021<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>E625                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0002<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>E625                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0009<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>E625                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0007<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>E625                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0038<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>E625 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 2<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>E625 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .353<br>-<br>.884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>E625             | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0353 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>E625             | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.2      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL              | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|---------------|--------------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Acrolein E624                      | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1431<br>-<br>.3534      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrolein E624                      | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .81<br>-<br>2            | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile E624                 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .2297<br>-<br>.3534      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile E624                 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | 1.3<br>-<br>2            | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin E625                        | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .0014<br>-<br>.005       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin E625                        | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0002<br>-<br>.0009      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene E625                    | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene E625                    | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.053       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>lb/day  | 1.0603<br>-<br>2.1206952 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>ug/L    | 6<br>-<br>12             | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable E200.7  | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>lb/day  | .8836<br>-<br>1.7672     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable E200.7  | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>ug/L    | 5<br>-<br>10             | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene E624                       | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene E624                       | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0318<br>-<br>.0884      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzidine E625                     | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | 4<br>-<br>5              | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzidine E625                     | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .7069<br>-<br>.8836      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene E625            | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0009<br>-<br>.053       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene E625            | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .05<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene E625                | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .04<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method        | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene E625                 | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0071<br>-<br>.053  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene E625           | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .05<br>-<br>.3      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene E625           | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0088<br>-<br>.053  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene E625             | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0088<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene E625             | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .05<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene E625           | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.3      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene E625           | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .004<br>-<br>.053   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable E200.8 | 07/24/2024 08:00:00<br>07/31/2024       | -<br>1<br>-                   | ND<br>ug/L    | .029<br>-<br>.1     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable E200.8 | 07/24/2024 08:00:00<br>07/31/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0051<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum E625                       | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .002<br>-<br>.0053  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum E625                       | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .011<br>-<br>.03    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether E625  | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether E625  | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Bromoform E624                     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0265<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bromoform E624                     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L          | .15<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane E624                  | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L          | .13<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane E624                  | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day        | .023<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable E200.7  | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>lb/day        | .5302<br>-<br>1.0603 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable E200.7  | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>ug/L          | 3<br>-<br>6          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride E624          | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0371<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride E624          | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L          | .21<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane E625                     | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L          | .0034<br>-<br>.01    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane E625                     | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0006<br>-<br>.0018  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene E624                 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0318<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene E624                 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L          | .18<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform E624                    | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | DNQ 0.086<br>lb/day | .03<br>-<br>.0884    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform E624                    | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | DNQ 0.49<br>ug/L    | .17<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane E624                 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L          | .46<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane E624                 | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0813<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>lb/day        | .4772<br>-<br>.8836  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | ND<br>ug/L          | 2.7<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chrysene E625                      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day        | .0009<br>-<br>.053   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method                     | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units    | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------------------------|-----------------------------------------|-------------------------------|------------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Chrysene<br>E625                                 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.3      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>E624                  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0159<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>E624                  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .09<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>E200.8              | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | = 7.2<br>ug/L    | .23<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>E200.8              | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | = 1.27<br>lb/day | .0406<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>DU                     | 07/24/2024<br>08:00:00<br>08/01/2024    | -<br>1<br>-                   | ND<br>lb/day     | .4418<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>DU                     | 07/24/2024<br>08:00:00<br>08/01/2024    | -<br>1<br>-                   | ND<br>ug/L       | 2.5<br>-<br>5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>E625 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0138<br>-<br>.045  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>E625 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0024<br>-<br>.008  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>E625                     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .4<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>E625                     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0707<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>E625                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0088<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>E625                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>E624                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .17<br>-<br>.25     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>E624                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .03<br>-<br>.0442   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>E624                    | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .45<br>-<br>1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>E624                    | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0795<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>E624                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0014<br>-<br>.0088 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>E624                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .008<br>-<br>.5     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |



| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Dieldrin E625                | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L       | .0017<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dieldrin E625                | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND lb/day     | .0003<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate E625       | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L       | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate E625       | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day     | .0884<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day     | .0884<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L       | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum E625        | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND lb/day     | .0013<br>-<br>.0053 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum E625        | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L       | .0076<br>-<br>.03   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin E625                  | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND lb/day     | .0005<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin E625                  | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L       | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene E624            | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND lb/day     | .0884<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene E624            | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND ug/L       | .5<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene E625            | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L       | .02<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene E625            | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day     | .0035<br>-<br>.0088 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene E625                | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L       | .02<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene E625                | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day     | .0035<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum E624       | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND lb/day     | .1308<br>-<br>.2651 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum E624       | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND ug/L       | .74<br>-<br>1.5     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor E625              | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L       | .0031<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method      | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Heptachlor E625                   | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide E625           | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide E625           | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene E625            | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | 1<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene E625            | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1767<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene E625          | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0707<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene E625          | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene E625    | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene E625    | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane E625             | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane E625             | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0707<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene E625     | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0088<br>-<br>.0088 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene E625     | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .05<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone E625                   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .088<br>-<br>.177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone E625                   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable E200.8    | 07/24/2024 08:00:00<br>07/31/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0147<br>-<br>.0353 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable E200.8    | 07/24/2024 08:00:00<br>07/31/2024       | -<br>1<br>-                   | ND<br>ug/L    | .083<br>-<br>.2     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable E245.1 | 07/24/2024 08:00:00<br>07/31/2024       | -<br>1<br>-                   | ND<br>ug/L    | .1<br>-<br>.2       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable E245.1 | 07/24/2024 08:00:00<br>07/31/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0177<br>-<br>.0353 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method     | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units    | MDL, ML, RL | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|----------------------------------|-----------------------------------------|-------------------------------|------------------|-------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride E624          | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND ug/L          | .49<br>-    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride E624          | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND lb/day        | .0866<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L          | .5<br>-     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine E625   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day        | .0884<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day        | .1237<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L          | .7<br>-     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L          | .7<br>-     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine E625      | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day        | .1237<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | DNQ 0.883 lb/day | .5302<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | DNQ 5 ug/L       | 3<br>-      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene E625                | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND ug/L          | .5<br>-     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene E625                | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND lb/day        | .0884<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L          | .03<br>-    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND lb/day        | .0053<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L          | .03<br>-    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND lb/day        | .0053<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L          | .03<br>-    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND lb/day        | .0053<br>-  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1242 E625                    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND ug/L          | .03<br>-    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method                  | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|---------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | PCB-1242 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.0177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.0177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1254 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1254 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.0177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260 E625                                 | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.0177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene E625                             | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0088   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene E625                             | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated E625                     | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .5302<br>-<br>2.6509  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated E625                     | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | 3<br>-<br>15          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated E625                 | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | 1.2547<br>-<br>5.8319 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated E625                 | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | 7.1<br>-<br>33        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs), Sum E625    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0371<br>-<br>.1237   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs), Sum E625    | 07/24/2024 08:00:00<br>08/14/2024       | -<br>1<br>-                   | ND<br>ug/L    | .21<br>-<br>.7        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs) E625 | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .083<br>-<br>.433     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs) E625 | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .47<br>-<br>2.45      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene E625                                   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene E625                                   | 07/24/2024 08:00:00<br>08/08/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0088   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method       | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units                      | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------|-----------------------------------------|-------------------------------|------------------------------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Radiation, Gross Alpha E900        | 07/24/2024<br>08:00:00<br>08/21/2024    | -<br>1<br>-                   | = -1.18<br>PCi/L                   | -<br>-<br>-           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Radiation, Gross Beta E900         | 07/24/2024<br>08:00:00<br>08/24/2024    | -<br>1<br>-                   | = 41.8<br>PCi/L                    | -<br>-<br>-           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Radioactivity E900                 | 07/24/2024<br>08:00:00<br>08/21/2024    | -<br>1<br>-                   | = 41.8<br>PCi/L                    | -<br>-<br>-           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable E200.7 | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L                         | 4.9<br>-<br>10        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable E200.7 | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .866<br>-<br>1.7672   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable E200.8   | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0048<br>-<br>.0353   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable E200.8   | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .027<br>-<br>.2       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents SW8290            | 07/24/2024<br>08:00:00<br>08/06/2024    | -<br>1<br>-                   | DNQ<br>0.0000009<br>686<br>ug/L    | .00003<br>-<br>.0006  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents SW8290            | 07/24/2024<br>08:00:00<br>08/06/2024    | -<br>1<br>-                   | DNQ<br>0.0000001<br>7118<br>lb/day | .000005<br>-<br>.0001 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene E624             | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .19<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene E624             | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0336<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable E200.7 | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L                         | 4<br>-<br>8           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable E200.7 | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .7069<br>-<br>1.4138  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene E624                       | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .19<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene E624                       | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .034<br>-<br>.0884    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene E625                     | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0707<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene E625                     | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .4<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT) DU               | 08/05/2024<br>07:00:00<br>09/09/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0004<br>-<br>.0009   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Analytical Method   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units     | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------|-----------------------------------------|-------------------------------|-------------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT) DU           | 08/05/2024 07:00:00<br>09/09/2024       | -<br>1<br>-                   | ND<br>ug/L        | .0023<br>-<br>.005    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene E624           | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L        | .2<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene E624           | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day      | .0353<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride E624            | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L        | .25<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride E624            | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day      | .0442<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | DNQ 11<br>ug/L    | 6<br>-<br>12          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable E200.7 | 07/24/2024 08:00:00<br>08/05/2024       | -<br>1<br>-                   | DNQ 1.9<br>lb/day | 1.2493<br>-<br>2.1207 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

### Calculated Values

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type              | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane 30-Day Average     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .46<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,1-Trichloroethane 30-Day Average     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .081<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane 30-Day Average | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .23<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2,2-Tetrachloroethane 30-Day Average | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0406<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane 30-Day Average     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .24<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1,2-Trichloroethane 30-Day Average     | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .042<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene 30-Day Average      | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .41<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,1-Dichloroethylene 30-Day Average      | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .073<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene 30-Day Average       | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .0477<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichlorobenzene 30-Day Average       | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>ug/L    | .27<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane 30-Day Average        | 07/24/2024 08:00:00<br>07/26/2024       | -<br>1<br>-                   | ND<br>lb/day  | .03<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type             | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 1,2-Dichloroethane<br>30-Day Average    | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .17<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,2-Diphenylhydrazine<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene<br>30-Day Average   | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0318<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,3-Dichlorobenzene<br>30-Day Average   | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene<br>30-Day Average   | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .18<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 1,4-Dichlorobenzene<br>30-Day Average   | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0318<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0707<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4,6-Trichlorophenol<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD<br>30-Day Average               | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDD<br>30-Day Average               | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>ug/L    | .003<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE<br>30-Day Average               | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDE<br>30-Day Average               | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>30-Day Average               | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0004<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-DDT<br>30-Day Average               | 07/24/2024<br>08:00:00<br>08/07/2024    | -<br>1<br>-                   | ND<br>ug/L    | .002<br>-<br>.005   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>30-Day Average     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .353<br>-<br>.884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrophenol<br>30-Day Average     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 2<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>30-Day Average    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 2,4-Dinitrotoluene<br>30-Day Average    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                  | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units   | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|----------------------------------------------|-----------------------------------------|-------------------------------|-----------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>30-Day Average      | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L      | 5<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 3,3-Dichlorobenzidine<br>30-Day Average      | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day    | .8836<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L      | .0021<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDD<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day    | .0004<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L      | .0009<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDE<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day    | .0002<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L      | .0038<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,4-DDT<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day    | .0007<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L      | 2<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | 4,6-Dinitro-2-methylphenol<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day    | .353<br>-<br>.884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>30-Day Average             | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L      | .02<br>-<br>.2      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acenaphthylene<br>30-Day Average             | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day    | .0035<br>-<br>.0353 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrolein<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L      | .81<br>-<br>2       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrolein<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day    | .1431<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile<br>30-Day Average              | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day    | .2297<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Acrylonitrile<br>30-Day Average              | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L      | 1.3<br>-<br>2       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L      | .0014<br>-<br>.005  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Aldrin<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day    | .0002<br>-<br>.0009 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median      | 12/31/2024<br>00:00:00<br>12/31/2024    | -<br>2<br>-                   | = 48000<br>ug/L | 2.1<br>-<br>4       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |



| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units    | MDL, ML, RL              | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|------------------|--------------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median       | 12/31/2024<br>00:00:00<br>12/31/2024    | -<br>1<br>-                   | = 8694<br>lb/day | .3804<br>-<br>.724       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median       | 12/31/2024<br>00:00:00<br>12/31/2024    | -<br>2<br>-                   | = 8694<br>lb/day | .3804<br>-<br>.724       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ammonia, Total (as N)<br>6-Month Median       | 12/31/2024<br>00:00:00<br>12/31/2024    | -<br>1<br>-                   | = 48000<br>ug/L  | 2.1<br>-<br>4            | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .03<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Anthracene<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0053<br>-<br>.053       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day     | 1.0603<br>-<br>2.1206952 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Antimony, Total Recoverable<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L       | 6<br>-<br>12             | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable<br>6-Month Median  | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day     | .8836<br>-<br>1.7672     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Arsenic, Total Recoverable<br>6-Month Median  | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L       | 5<br>-<br>10             | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .18<br>-<br>.5           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzene<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0318<br>-<br>.0884      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzidine<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .7069<br>-<br>.8836      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzidine<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | 4<br>-<br>5              | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene<br>30-Day Average          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)anthracene<br>30-Day Average          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0009<br>-<br>.053       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene<br>30-Day Average              | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0071<br>-<br>.053       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(a)pyrene<br>30-Day Average              | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .04<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene<br>30-Day Average        | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.3           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(b)fluoranthene<br>30-Day Average        | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0088<br>-<br>.053       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                     | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-------------------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene<br>30-Day Average            | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .05<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(ghi)perylene<br>30-Day Average            | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0088<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene<br>30-Day Average          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .004<br>-<br>.053   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Benzo(k)fluoranthene<br>30-Day Average          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.3      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable<br>30-Day Average  | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0051<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Beryllium, Total Recoverable<br>30-Day Average  | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>ug/L    | .029<br>-<br>.1     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum<br>6-Month Median                      | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .002<br>-<br>.0053  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | BHC, Sum<br>6-Month Median                      | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .011<br>-<br>.03    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethoxy) Methane<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether<br>30-Day Average     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroethyl) Ether<br>30-Day Average     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Chloroisopropyl) Ether<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bis (2-Ethylhexyl) Phthalate<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bromoform<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0265<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bromoform<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .15<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Bromomethane<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .13<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Bromomethane<br>30-Day Average                | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day        | .023<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable<br>6-Month Median  | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L          | 3<br>-<br>6          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cadmium, Total Recoverable<br>6-Month Median  | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day        | .5302<br>-<br>1.0603 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride<br>30-Day Average        | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0371<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Carbon Tetrachloride<br>30-Day Average        | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L          | .21<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0006<br>-<br>.0018  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlordane<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L          | .0034<br>-<br>.01    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene<br>30-Day Average               | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L          | .18<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chlorobenzene<br>30-Day Average               | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0318<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | DNQ 0.49<br>ug/L    | .17<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloroform<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | DNQ 0.086<br>lb/day | .03<br>-<br>.0884    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane<br>30-Day Average               | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0813<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chloromethane<br>30-Day Average               | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L          | .46<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable<br>6-Month Median | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L          | 2.7<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chromium, Total Recoverable<br>6-Month Median | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day        | .4772<br>-<br>.8836  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chrysene<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0009<br>-<br>.053   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Chrysene<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L          | .05<br>-<br>.3       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>30-Day Average     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0159<br>-<br>.0884  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | cis-1,3-Dichloropropene<br>30-Day Average     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L          | .09<br>-<br>.5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                                | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units    | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------------------------------|-----------------------------------------|-------------------------------|------------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>6-Month Median                | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | = 1.27<br>lb/day | .0406<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Copper, Total Recoverable<br>6-Month Median                | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | = 7.2<br>ug/L    | .23<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>6-Month Median                   | 07/24/2024<br>08:00:00<br>08/01/2024    | -<br>1<br>-                   | ND<br>lb/day     | .4418<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Cyanide, Total (as CN)<br>6-Month Median                   | 07/24/2024<br>08:00:00<br>08/01/2024    | -<br>1<br>-                   | ND<br>ug/L       | 2.5<br>-<br>5       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0024<br>-<br>.008  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | DDT/DDD/DDE, Sum of P,P & O,P<br>Isomers<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0138<br>-<br>.045  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0707<br>-<br>.8836 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Di-n-butyl Phthalate<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .4<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0088<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibenzo(a,h)anthracene<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .05<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .03<br>-<br>.0442   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dibromochloromethane<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .17<br>-<br>.25     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0795<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobenzenes, Sum<br>30-Day Average                    | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .45<br>-<br>1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0014<br>-<br>.0088 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dichlorobromomethane<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L       | .008<br>-<br>.5     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dieldrin<br>30-Day Average                                 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day     | .0003<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dieldrin<br>30-Day Average                                 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L       | .0017<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate<br>30-Day Average                        | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L       | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type          | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|--------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Diethyl Phthalate<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.3534 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Dimethyl Phthalate<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>2        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum<br>6-Month Median   | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0013<br>-<br>.0053 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endosulfans, Sum<br>6-Month Median   | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0076<br>-<br>.03   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin<br>6-Month Median             | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Endrin<br>6-Month Median             | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene<br>30-Day Average       | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Ethylbenzene<br>30-Day Average       | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0884<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene<br>30-Day Average       | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluoranthene<br>30-Day Average       | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0088 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene<br>30-Day Average           | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0177 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Fluorene<br>30-Day Average           | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.1      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum<br>30-Day Average  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .74<br>-<br>1.5     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Halomethanes, Sum<br>30-Day Average  | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1308<br>-<br>.2651 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor<br>30-Day Average         | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor<br>30-Day Average         | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0031<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0005<br>-<br>.0018 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Heptachlor Epoxide<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .0027<br>-<br>.01   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                  | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL         | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|----------------------------------------------|-----------------------------------------|-------------------------------|---------------|---------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene<br>30-Day Average          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 1<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobenzene<br>30-Day Average          | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1767<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene<br>30-Day Average        | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0707<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorobutadiene<br>30-Day Average        | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .9<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachlorocyclopentadiene<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .1591<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane<br>30-Day Average           | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0707<br>-<br>.1767 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Hexachloroethane<br>30-Day Average           | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .4<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene<br>30-Day Average   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .05<br>-<br>.05     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Indeno (1,2,3-cd) Pyrene<br>30-Day Average   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0088<br>-<br>.0088 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone<br>30-Day Average                 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .088<br>-<br>.177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Isophorone<br>30-Day Average                 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable<br>6-Month Median    | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>ug/L    | .083<br>-<br>.2     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Lead, Total Recoverable<br>6-Month Median    | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0147<br>-<br>.0353 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable<br>6-Month Median | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>ug/L    | .1<br>-<br>.2       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Mercury, Total Recoverable<br>6-Month Median | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0177<br>-<br>.0353 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride<br>30-Day Average         | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L    | .49<br>-<br>.5      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Methylene Chloride<br>30-Day Average         | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0866<br>-<br>.0884 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine<br>30-Day Average  | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .5<br>-<br>5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                 | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units       | MDL, ML, RL          | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|---------------------------------------------|-----------------------------------------|-------------------------------|---------------------|----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodi-n-Propylamine<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0884<br>-<br>.8836  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine<br>30-Day Average    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L          | .7<br>-<br>5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodimethylamine<br>30-Day Average    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1237<br>-<br>.8836  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine<br>30-Day Average    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L          | .7<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | N-Nitrosodiphenylamine<br>30-Day Average    | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day        | .1237<br>-<br>.1767  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable<br>6-Month Median | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | DNQ 5<br>ug/L       | 3<br>-<br>6          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nickel, Total Recoverable<br>6-Month Median | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | DNQ 0.883<br>lb/day | .5302<br>-<br>1.0603 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene<br>30-Day Average              | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L          | .5<br>-<br>1         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Nitrobenzene<br>30-Day Average              | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0884<br>-<br>.1767  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1016<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0053<br>-<br>.0177  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1221<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0053<br>-<br>.0177  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0053<br>-<br>.0177  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1232<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1242<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0053<br>-<br>.0177  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1242<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day        | .0053<br>-<br>.0177  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1248<br>30-Day Average                  | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L          | .03<br>-<br>.1       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                                | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|------------------------------------------------------------|-----------------------------------------|-------------------------------|---------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | PCB-1254<br>30-Day Average                                 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.0177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1254<br>30-Day Average                                 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260<br>30-Day Average                                 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0053<br>-<br>.0177   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | PCB-1260<br>30-Day Average                                 | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .03<br>-<br>.1        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene<br>30-Day Average                             | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenanthrene<br>30-Day Average                             | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0088   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated<br>6-Month Median                     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .5302<br>-<br>2.6509  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Chlorinated<br>6-Month Median                     | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 3<br>-<br>15          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated<br>6-Month Median                 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | 7.1<br>-<br>33        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Phenols, Non-chlorinated<br>6-Month Median                 | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | 1.2547<br>-<br>5.8319 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs),<br>Sum<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0371<br>-<br>.1237   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polychlorinated Biphenyls (PCBs),<br>Sum<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L    | .21<br>-<br>.7        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs)<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .083<br>-<br>.433     | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Polynuclear Aromatic Hydrocarbons (PAHs)<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .47<br>-<br>2.45      | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene<br>30-Day Average                                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>lb/day  | .0035<br>-<br>.0088   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Pyrene<br>30-Day Average                                   | 07/24/2024<br>08:00:00<br>08/08/2024    | -<br>1<br>-                   | ND<br>ug/L    | .02<br>-<br>.05       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable<br>6-Month Median              | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day  | .866<br>-<br>1.7672   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Selenium, Total Recoverable<br>6-Month Median              | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L    | 4.9<br>-<br>10        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable<br>6-Month Median                | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>ug/L    | .027<br>-<br>.2       | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |



| Location | Collection Method, Depth (m) | Sample Type, Matrix | Parameter, Calculation Type                   | Sample Date, Sample Time, Analysis Date | Field Rep, Lab Rep, Lab Batch | Result, Units                      | MDL, ML, RL           | Review Priority, QA Codes | Comments | Data Source                            |
|----------|------------------------------|---------------------|-----------------------------------------------|-----------------------------------------|-------------------------------|------------------------------------|-----------------------|---------------------------|----------|----------------------------------------|
| M-004    | -<br>-                       | -<br>water          | Silver, Total Recoverable<br>6-Month Median   | 07/24/2024<br>08:00:00<br>07/31/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0048<br>-<br>.0353   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents<br>30-Day Average            | 07/24/2024<br>08:00:00<br>08/06/2024    | -<br>1<br>-                   | DNQ<br>0.0000009<br>686<br>ug/L    | .00003<br>-<br>.0006  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | TCDD Equivalents<br>30-Day Average            | 07/24/2024<br>08:00:00<br>08/06/2024    | -<br>1<br>-                   | DNQ<br>0.0000001<br>7118<br>lb/day | .000005<br>-<br>.0001 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene<br>30-Day Average           | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0336<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tetrachloroethene<br>30-Day Average           | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .19<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>ug/L                         | 4<br>-<br>8           | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Thallium, Total Recoverable<br>30-Day Average | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .7069<br>-<br>1.4138  | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .034<br>-<br>.0884    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toluene<br>30-Day Average                     | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .19<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .4<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Toxaphene<br>30-Day Average                   | 07/24/2024<br>08:00:00<br>08/14/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0707<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT)<br>30-Day Average           | 08/05/2024<br>07:00:00<br>09/09/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .0023<br>-<br>.005    | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Tributyltin (TBT)<br>30-Day Average           | 08/05/2024<br>07:00:00<br>09/09/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0004<br>-<br>.0009   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene<br>30-Day Average             | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0353<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Trichloroethene<br>30-Day Average             | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .2<br>-<br>.5         | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride<br>30-Day Average              | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>lb/day                       | .0442<br>-<br>.0884   | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Vinyl Chloride<br>30-Day Average              | 07/24/2024<br>08:00:00<br>07/26/2024    | -<br>1<br>-                   | ND<br>ug/L                         | .25<br>-<br>.5        | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable<br>6-Month Median     | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | DNQ 1.9<br>lb/day                  | 1.2493<br>-<br>2.1207 | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |
| M-004    | -<br>-                       | -<br>water          | Zinc, Total Recoverable<br>6-Month Median     | 07/24/2024<br>08:00:00<br>08/05/2024    | -<br>1<br>-                   | DNQ 11<br>ug/L                     | 6<br>-<br>12          | No<br>-                   |          | CDF_Analytical_Calculated_01292025.zip |

## Lab Batches

No Lab Batch Data Available / Reported

**Questionnaire**

No Questionnaire Available

**Certificate**

**I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.**

**I certify that I am Octavio Navarrete and am authorized to submit this report on behalf of Carlsbad WRF / Encina Ocean Outfall / Encina Water Pollution Control Facility / Vallecitos WD Meadowlark WRP. I understand that I am submitting the following report(s):**

- Semi-Annual SMR ( MONNPDES ) report for H2 2024 (due 02/01/2025)**

**I understand that data submitted in this report(s) can be used by authorized agencies for water quality management related analyses and enforcement actions, if required.**

**I am also aware that my user ID, password, and answer to a challenge question constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that my electronic signature is the legal equivalent of my handwritten signature. I certify that I have not violated any term in my Electronic Signature Agreement and that I am otherwise without any reason to believe that the confidentiality of my password and challenge question answers have been compromised now or at any time prior to this submission. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal environmental program and must be true to the best of my knowledge.**

**Name:** Octavio Navarrete

**Title:** Chief Plant Operator

**Work Orders:** 4F13032

**Report Date:** 8/07/2024

**Received Date:** 6/13/2024

**Project:** 2024 Annual CWRP Effluent Priority Pollutant Scan

**Turnaround Time:** Normal

**Phones:** (760) 438-3941

**Fax:**

**P.O. #:**

**Billing Code:**

**Attn:** Rachael Morgan

**Client:** Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.*

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 6/13/24 with the Chain-of-Custody document. The samples were received in good condition, at 6.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Ryan J. Gasio  
Project Manager



## Sample Summary

| Sample Name                  | Sampled By | Lab ID     | Matrix | Sampled        | Qualifiers |
|------------------------------|------------|------------|--------|----------------|------------|
| CWRP Effluent 06/11-06/12/24 | AP         | 4F13032-01 | Water  | 06/12/24 07:00 |            |

## Analyses Accreditation Summary

| Analyte                          | CAS #     | Not By<br>ELAP-CA | Not By<br>NELAP OR | Not ANAB<br>ISO 17025 |
|----------------------------------|-----------|-------------------|--------------------|-----------------------|
| <b>EPA 608.3 in Water</b>        |           |                   |                    |                       |
| Mirex                            | 2385-85-5 | ⊗                 |                    | ⊗                     |
| 2,4'-DDT                         | 789-02-6  | ⊗                 | ⊗                  | ⊗                     |
| 2,4'-DDE                         | 3424-82-6 | ⊗                 | ⊗                  | ⊗                     |
| 2,4'-DDD                         | 53-19-0   | ⊗                 | ⊗                  | ⊗                     |
| alpha-Chlordane                  | 5103-71-9 | ⊗                 |                    | ⊗                     |
| gamma-Chlordane                  | 5566-34-7 | ⊗                 |                    | ⊗                     |
| <b>EPA 624.1 in Water</b>        |           |                   |                    |                       |
| Chloromethane                    | 74-87-3   |                   | ⊗                  |                       |
| Bromomethane                     | 74-83-9   |                   | ⊗                  |                       |
| Chloroethane                     | 75-00-3   |                   | ⊗                  |                       |
| 2-Hexanone                       | 591-78-6  | ⊗                 |                    | ⊗                     |
| 2-Butanone                       | 78-93-3   | ⊗                 |                    |                       |
| Methyl tert-butyl ether (MTBE)   | 1634-04-4 | ⊗                 |                    | ⊗                     |
| Carbon Disulfide                 | 75-15-0   | ⊗                 |                    | ⊗                     |
| cis-1,2-Dichloroethene           | 156-59-2  | ⊗                 |                    | ⊗                     |
| 4-Bromofluorobenzene             | 460-00-4  |                   |                    | ⊗                     |
| <b>EPA 625.1 in Water</b>        |           |                   |                    |                       |
| N-Nitrosodimethylamine           | 62-75-9   | ⊗                 |                    | ⊗                     |
| 1,3-Dichlorobenzene              | 541-73-1  | ⊗                 |                    | ⊗                     |
| 1,4-Dichlorobenzene              | 106-46-7  | ⊗                 |                    | ⊗                     |
| 1,2-Dichlorobenzene              | 95-50-1   | ⊗                 |                    | ⊗                     |
| Bis(2-chloroisopropyl)ether      | 108-60-1  |                   | ⊗                  |                       |
| N-Nitrosodiphenylamine           | 86-30-6   | ⊗                 |                    | ⊗                     |
| 1,2-Diphenylhydrazine/Azobenzene | 122-66-7  | ⊗                 |                    | ⊗                     |
| 3,3'-Dichlorobenzidine           | 91-94-1   |                   |                    | ⊗                     |
| 2,4,6-Tribromophenol             | 118-79-6  |                   | ⊗                  |                       |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results

Sample: CWRP Effluent 06/11-06/12/24

Sampled: 06/12/24 7:00 by AP

4F13032-01 (Water)

| Analyte                                            | Result                             | MRL                             | Units | Dil                 | Analyzed | Qualifier |
|----------------------------------------------------|------------------------------------|---------------------------------|-------|---------------------|----------|-----------|
| <b>Acid and Base/Neutral Extractables by GC/MS</b> |                                    |                                 |       |                     |          |           |
| <b>Method:</b> EPA 625.1                           |                                    | <b>Instr:</b> GCMS06            |       |                     |          |           |
| <b>Batch ID:</b> W4F1235                           | <b>Preparation:</b> EPA 625/L-L SF | <b>Prepared:</b> 06/17/24 08:22 |       | <b>Analyst:</b> rmr |          |           |
| 1,2,4-Trichlorobenzene                             | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 1,2-Dichlorobenzene                                | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 1,2-Diphenylhydrazine/Azobenzene                   | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 1,3-Dichlorobenzene                                | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 1,4-Dichlorobenzene                                | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2,4,6-Trichlorophenol                              | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2,4-Dichlorophenol                                 | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2,4-Dimethylphenol                                 | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2,4-Dinitrophenol                                  | ND                                 | 10                              | ug/l  | 1                   | 06/29/24 |           |
| 2,4-Dinitrotoluene                                 | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2,6-Dinitrotoluene                                 | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2-Chloronaphthalene                                | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2-Chlorophenol                                     | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2-Methyl-4,6-dinitrophenol                         | ND                                 | 5.0                             | ug/l  | 1                   | 06/29/24 |           |
| 2-Nitrophenol                                      | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 3,3'-Dichlorobenzidine                             | ND                                 | 5.0                             | ug/l  | 1                   | 06/29/24 |           |
| 4-Bromophenyl phenyl ether                         | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 4-Chloro-3-methylphenol                            | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 4-Chlorophenyl phenyl ether                        | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| 4-Nitrophenol                                      | ND                                 | 5.0                             | ug/l  | 1                   | 06/29/24 |           |
| Acenaphthene                                       | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Acenaphthylene                                     | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Anthracene                                         | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Benzidine                                          | ND                                 | 10                              | ug/l  | 1                   | 06/29/24 |           |
| Benzo (a) anthracene                               | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Benzo (a) pyrene                                   | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Benzo (b) fluoranthene                             | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Benzo (k) fluoranthene                             | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Bis(2-chloroethoxy)methane                         | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Bis(2-chloroethyl)ether                            | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Bis(2-chloroisopropyl)ether                        | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Bis(2-ethylhexyl)phthalate                         | ND                                 | 5.0                             | ug/l  | 1                   | 06/29/24 |           |
| Butyl benzyl phthalate                             | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |
| Chrysene                                           | ND                                 | 1.0                             | ug/l  | 1                   | 06/29/24 |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results

(Continued)

Sample: CWRP Effluent 06/11-06/12/24

Sampled: 06/12/24 7:00 by AP

4F13032-01 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Acid and Base/Neutral Extractables by GC/MS (Continued)

**Method:** EPA 625.1

**Instr:** GCMS06

**Batch ID:** W4F1235

**Preparation:** EPA 625/L-L SF

**Prepared:** 06/17/24 08:22

**Analyst:** rmr

|                           |    |     |      |   |          |      |
|---------------------------|----|-----|------|---|----------|------|
| Diethyl phthalate         | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Dimethyl phthalate        | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Di-n-butyl phthalate      | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Di-n-octyl phthalate      | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Fluoranthene              | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Fluorene                  | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Hexachlorobenzene         | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Hexachlorobutadiene       | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/l | 1 | 06/29/24 |      |
| Hexachloroethane          | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Isophorone                | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Naphthalene               | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Nitrobenzene              | ND | 2.0 | ug/l | 1 | 06/29/24 | R-01 |
| N-Nitrosodi-n-propylamine | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| N-Nitrosodiphenylamine    | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Pentachlorophenol         | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Phenanthrene              | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Phenol                    | ND | 1.0 | ug/l | 1 | 06/29/24 |      |
| Pyrene                    | ND | 1.0 | ug/l | 1 | 06/29/24 |      |

#### Surrogate(s)

|                      |      |            |        |          |
|----------------------|------|------------|--------|----------|
| 2,4,6-Tribromophenol | 73%  | Conc: 30.9 | 25-120 | 06/29/24 |
| 2-Fluorobiphenyl     | 77%  | Conc: 16.2 | 22-120 | 06/29/24 |
| 2-Fluorophenol       | 45%  | Conc: 19.1 | 17-120 | 06/29/24 |
| Nitrobenzene-d5      | 79%  | Conc: 16.6 | 47-120 | 06/29/24 |
| Phenol-d5            | 28%  | Conc: 11.8 | 12-120 | 06/29/24 |
| Terphenyl-d14        | 107% | Conc: 22.5 | 44-129 | 06/29/24 |

### Chlorinated Pesticides and/or PCBs by GC/ECD

**Method:** EPA 608.3

**Instr:** GC07

**Batch ID:** W4F1121

**Preparation:** EPA 608/L-L SF

**Prepared:** 06/14/24 07:47

**Analyst:** ECS

|              |    |       |      |    |          |      |
|--------------|----|-------|------|----|----------|------|
| 4,4'-DDD     | ND | 0.50  | ug/l | 10 | 07/02/24 | M-04 |
| 4,4'-DDE     | ND | 0.50  | ug/l | 10 | 07/02/24 | M-04 |
| 4,4'-DDT     | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04 |
| Aldrin       | ND | 0.050 | ug/l | 10 | 07/02/24 | M-04 |
| alpha-BHC    | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04 |
| Aroclor 1016 | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04 |

4F13032

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Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRF Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results

(Continued)

Sample: CWRF Effluent 06/11-06/12/24

Sampled: 06/12/24 7:00 by AP

4F13032-01 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

**Method:** EPA 608.3

**Instr:** GC07

**Batch ID:** W4F1121

**Preparation:** EPA 608/L-L SF

**Prepared:** 06/14/24 07:47

**Analyst:** ECS

|                     |    |       |      |    |          |            |
|---------------------|----|-------|------|----|----------|------------|
| Aroclor 1221        | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04       |
| Aroclor 1232        | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04       |
| Aroclor 1242        | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04       |
| Aroclor 1248        | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04       |
| Aroclor 1254        | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04       |
| Aroclor 1260        | ND | 5.0   | ug/l | 10 | 07/02/24 | M-04       |
| beta-BHC            | ND | 0.050 | ug/l | 10 | 07/02/24 | M-04       |
| Chlordane (tech)    | ND | 1.0   | ug/l | 10 | 07/02/24 | M-04       |
| delta-BHC           | ND | 0.050 | ug/l | 10 | 07/02/24 | M-04       |
| Dieldrin            | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04       |
| Endosulfan I        | ND | 0.20  | ug/l | 10 | 07/02/24 | M-04       |
| Endosulfan II       | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04       |
| Endosulfan sulfate  | ND | 0.50  | ug/l | 10 | 07/02/24 | M-04       |
| Endrin              | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04       |
| Endrin aldehyde     | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04       |
| gamma-BHC (Lindane) | ND | 0.20  | ug/l | 10 | 07/02/24 | M-04       |
| Heptachlor          | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04       |
| Heptachlor epoxide  | ND | 0.10  | ug/l | 10 | 07/02/24 | M-04       |
| Toxaphene           | ND | 10    | ug/l | 10 | 07/02/24 | M-04, R-01 |

#### Surrogate(s)

|                         |                  |        |          |
|-------------------------|------------------|--------|----------|
| Decachlorobiphenyl      | 91% Conc: 0.0947 | 33-133 | 07/02/24 |
| Tetrachloro-meta-xylene | 68% Conc: 0.0704 | 32-130 | 07/02/24 |

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

**Method:** EPA 335.4

**Instr:** AA01

**Batch ID:** W4F1458

**Preparation:** \_NONE (WETCHEM)

**Prepared:** 06/18/24 17:29

**Analyst:** KAC

|                |     |     |      |   |          |
|----------------|-----|-----|------|---|----------|
| Cyanide, Total | 230 | 5.0 | ug/l | 1 | 06/19/24 |
|----------------|-----|-----|------|---|----------|

### Metals by EPA 200 Series Methods

**Method:** EPA 200.7

**Instr:** ICP03

**Batch ID:** W4F1180

**Preparation:** EPA 200.2

**Prepared:** 06/14/24 15:27

**Analyst:** kvm

|                 |       |        |      |   |          |
|-----------------|-------|--------|------|---|----------|
| Aluminum, Total | ND    | 0.050  | mg/l | 1 | 06/18/24 |
| Barium, Total   | 0.046 | 0.0020 | mg/l | 1 | 06/18/24 |

**Method:** EPA 245.1

**Instr:** HG03

**Batch ID:** W4F1492

**Preparation:** EPA 245.1

**Prepared:** 06/19/24 09:26

**Analyst:** KVM

|                |    |       |      |   |          |
|----------------|----|-------|------|---|----------|
| Mercury, Total | ND | 0.050 | ug/l | 1 | 06/21/24 |
|----------------|----|-------|------|---|----------|

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results

(Continued)

Sample: CWRP Effluent 06/11-06/12/24

Sampled: 06/12/24 7:00 by AP

4F13032-01 (Water)

(Continued)

| Analyte                         | Result | MRL                            | Units | Dil                             | Analyzed | Qualifier           |
|---------------------------------|--------|--------------------------------|-------|---------------------------------|----------|---------------------|
| <b>Perchlorate by EPA 314.0</b> |        |                                |       |                                 |          |                     |
| <b>Method:</b> EPA 314.0        |        | <b>Instr:</b> LC08_Channel1    |       |                                 |          |                     |
| <b>Batch ID:</b> W4G0170        |        | <b>Preparation:</b> _NONE (LC) |       | <b>Prepared:</b> 07/02/24 09:54 |          | <b>Analyst:</b> cam |
| Perchlorate                     | ND     | 5.0                            | ug/l  | 5                               | 07/02/24 | M-05                |

## Volatile Organic Compounds by P&T and GC/MS

|                                    |            |                               |      |                                 |          |                     |
|------------------------------------|------------|-------------------------------|------|---------------------------------|----------|---------------------|
| <b>Method:</b> EPA 624.1           |            | <b>Instr:</b> GCMS21          |      |                                 |          |                     |
| <b>Batch ID:</b> W4F1088           |            | <b>Preparation:</b> EPA 5030B |      | <b>Prepared:</b> 06/13/24 14:40 |          | <b>Analyst:</b> ADM |
| 1,1,1-Trichloroethane              | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 1,1,2,2-Tetrachloroethane          | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 1,1,2-Trichloroethane              | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 1,1-Dichloroethane                 | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 1,1-Dichloroethene                 | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 1,2-Dichloroethane                 | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 1,2-Dichloropropane                | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 2-Butanone                         | ND         | 5.0                           | ug/l | 1                               | 06/13/24 |                     |
| 2-Chloroethyl vinyl ether          | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| 2-Hexanone                         | ND         | 5.0                           | ug/l | 1                               | 06/13/24 |                     |
| 4-Methyl-2-pentanone               | ND         | 5.0                           | ug/l | 1                               | 06/13/24 |                     |
| <b>Acetone</b>                     | <b>6.2</b> | 5.0                           | ug/l | 1                               | 06/13/24 |                     |
| Acrolein                           | ND         | 5.0                           | ug/l | 1                               | 06/13/24 |                     |
| Acrylonitrile                      | ND         | 2.0                           | ug/l | 1                               | 06/13/24 |                     |
| Benzene                            | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| <b>Bromodichloromethane</b>        | <b>3.6</b> | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Bromoform                          | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Bromomethane                       | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Carbon Disulfide                   | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Carbon tetrachloride               | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Chlorobenzene                      | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Chloroethane                       | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| <b>Chloroform</b>                  | <b>7.1</b> | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Chloromethane                      | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| cis-1,3-Dichloropropene            | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| <b>Dibromochloromethane</b>        | <b>1.4</b> | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Dichlorodifluoromethane (Freon 12) | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Ethylbenzene                       | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| m-Dichlorobenzene                  | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Methyl tert-butyl ether (MTBE)     | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |
| Methylene chloride                 | ND         | 1.0                           | ug/l | 1                               | 06/13/24 |                     |

4F13032

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Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRF Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results

(Continued)

Sample: CWRF Effluent 06/11-06/12/24

Sampled: 06/12/24 7:00 by AP

4F13032-01 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Volatile Organic Compounds by P&T and GC/MS (Continued)

**Method:** EPA 624.1

**Instr:** GCMS21

**Batch ID:** W4F1088

**Preparation:** EPA 5030B

**Prepared:** 06/13/24 14:40

**Analyst:** ADM

|                           |    |     |      |   |          |  |
|---------------------------|----|-----|------|---|----------|--|
| o-Dichlorobenzene         | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| p-Dichlorobenzene         | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| Tetrachloroethene         | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| Toluene                   | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| trans-1,2-Dichloroethene  | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| Trichloroethene           | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| Trichlorofluoromethane    | ND | 1.0 | ug/l | 1 | 06/13/24 |  |
| Vinyl chloride            | ND | 1.0 | ug/l | 1 | 06/13/24 |  |

#### Surrogate(s)

|                       |      |            |        |          |  |
|-----------------------|------|------------|--------|----------|--|
| 1,2-Dichloroethane-d4 | 107% | Conc: 53.4 | 82-125 | 06/13/24 |  |
| 4-Bromofluorobenzene  | 97%  | Conc: 48.7 | 88-108 | 06/13/24 |  |
| Toluene-d8            | 110% | Conc: 55.0 | 92-112 | 06/13/24 |  |

## Sample Results

(Continued)

Sample: CWRF Effluent 06/11-06/12/24

Sampled: 06/12/24 7:00 by AP

4F13032-01RE1 (Water)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Acid and Base/Neutral Extractables by GC/MS

**Method:** EPA 625.1

**Instr:** GCMS06

**Batch ID:** W4F1235

**Preparation:** EPA 625/L-L SF

**Prepared:** 06/17/24 08:22

**Analyst:** rmr

|                          |    |     |      |   |          |      |
|--------------------------|----|-----|------|---|----------|------|
| Benzo (g,h,i) perylene   | ND | 4.0 | ug/l | 2 | 07/10/24 | M-04 |
| Dibenzo (a,h) anthracene | ND | 4.0 | ug/l | 2 | 07/10/24 | M-04 |
| Indeno (1,2,3-cd) pyrene | ND | 4.0 | ug/l | 2 | 07/10/24 | M-04 |
| N-Nitrosodimethylamine   | ND | 2.0 | ug/l | 2 | 07/10/24 | M-04 |

#### Surrogate(s)

|                      |      |            |        |          |  |
|----------------------|------|------------|--------|----------|--|
| 2,4,6-Tribromophenol | 66%  | Conc: 27.7 | 25-120 | 07/10/24 |  |
| 2-Fluorobiphenyl     | 74%  | Conc: 15.6 | 22-120 | 07/10/24 |  |
| 2-Fluorophenol       | 41%  | Conc: 17.1 | 17-120 | 07/10/24 |  |
| Nitrobenzene-d5      | 79%  | Conc: 16.6 | 47-120 | 07/10/24 |  |
| Phenol-d5            | 24%  | Conc: 10.1 | 12-120 | 07/10/24 |  |
| Terphenyl-d14        | 101% | Conc: 21.1 | 44-129 | 07/10/24 |  |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results LA Testing - EMSL Analytical, Inc. CA-ELAP #2283, Non-NELAP

Sample: CWRP Effluent 06/11-06/12/24  
4F13032-01 (Water)

Sampled: 06/12/24 7:00 by AP

| Analyte                  | Result                     | MDL                          | MRL                             | Units | Dil                  | Analyzed | Qualifier |
|--------------------------|----------------------------|------------------------------|---------------------------------|-------|----------------------|----------|-----------|
| <b>EPA 100.2</b>         |                            |                              |                                 |       |                      |          |           |
| <b>Method:</b> EPA 100.2 | <b>Batch ID:</b> 322414736 |                              | <b>Prepared:</b> 06/14/24 16:45 |       | <b>Analyst:</b> _SUB |          |           |
| Asbestos                 | ND                         |                              | 0.34                            | MFL   | 1                    | 06/22/24 |           |
| <b>Fibers:</b>           | <b>Area:</b> 0.254         | <b>Confidence:</b> 0.00-1.20 |                                 |       |                      |          |           |

## Sample Results PACE-MN

Sample: CWRP Effluent 06/11-06/12/24  
4F13032-01 (Water)

Sampled: 06/12/24 7:00 by AP

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

|                       |                        |     |                                 |      |                     |          |  |
|-----------------------|------------------------|-----|---------------------------------|------|---------------------|----------|--|
| <b>Method:</b> SW8290 | <b>Batch ID:</b> 37800 |     | <b>Prepared:</b> 06/20/24 15:30 |      | <b>Analyst:</b> SMT |          |  |
| 1,2,3,4,6,7,8-HpCDD   | ND                     | 4.3 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,4,6,7,8-HpCDF   | ND                     | 4.4 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,4,7,8,9-HpCDF   | ND                     | 5.2 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,4,7,8-HxCDD     | ND                     | 4.2 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,4,7,8-HxCDF     | ND                     | 4.3 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,6,7,8-HxCDD     | ND                     | 3.9 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,6,7,8-HxCDF     | ND                     | 4.7 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,7,8,9-HxCDD     | ND                     | 5.0 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,7,8,9-HxCDF     | ND                     | 4.9 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,7,8-PeCDD       | ND                     | 2.0 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 1,2,3,7,8-PeCDF       | ND                     | 2.7 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 2,3,4,6,7,8-HxCDF     | ND                     | 4.1 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 2,3,4,7,8-PeCDF       | ND                     | 2.1 | 51                              | pg/L | 1                   | 06/27/24 |  |
| 2,3,7,8-TCDD          | ND                     | 2.2 | 10                              | pg/L | 1                   | 06/27/24 |  |
| 2,3,7,8-TCDF          | ND                     | 2.2 | 10                              | pg/L | 1                   | 06/27/24 |  |
| OCDD                  | ND                     | 15  | 100                             | pg/L | 1                   | 06/27/24 |  |
| OCDF                  | ND                     | 15  | 100                             | pg/L | 1                   | 06/27/24 |  |
| Total HpCDD           | ND                     | 4.3 | 51                              | pg/L | 1                   | 06/27/24 |  |
| Total HpCDF           | ND                     | 4.4 | 51                              | pg/L | 1                   | 06/27/24 |  |
| Total HxCDD           | ND                     | 3.9 | 51                              | pg/L | 1                   | 06/27/24 |  |
| Total HxCDF           | ND                     | 4.1 | 51                              | pg/L | 1                   | 06/27/24 |  |
| Total PeCDD           | ND                     | 2.0 | 51                              | pg/L | 1                   | 06/27/24 |  |
| Total PeCDF           | ND                     | 2.1 | 51                              | pg/L | 1                   | 06/27/24 |  |
| Total TCDD            | ND                     | 2.2 | 10                              | pg/L | 1                   | 06/27/24 |  |
| Total TCDF            | ND                     | 2.2 | 10                              | pg/L | 1                   | 06/27/24 |  |

#### Surrogate(s)

|                         |     |            |          |
|-------------------------|-----|------------|----------|
| 1,2,3,4,6,7,8-HpCDD-13C | 42% | 40.0-135.0 | 06/27/24 |
| 1,2,3,4,6,7,8-HpCDF-13C | 41% | 40.0-135.0 | 06/27/24 |
| 1,2,3,4,7,8,9-HpCDF-13C | 44% | 40.0-135.0 | 06/27/24 |
| 1,2,3,4,7,8-HxCDD-13C   | 41% | 40.0-135.0 | 06/27/24 |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRF Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Sample Results PACE-MN

(Continued)

Sample: CWRF Effluent 06/11-06/12/24  
4F13032-01 (Water)

Sampled: 06/12/24 7:00 by AP  
(Continued)

| Analyte                                                             | Result | MDL | MRL        | Units | Dil | Analyzed | Qualifier |
|---------------------------------------------------------------------|--------|-----|------------|-------|-----|----------|-----------|
| <b>Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)</b> |        |     |            |       |     |          |           |
| 1,2,3,4,7,8-HxCDF-13C                                               | 51%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,4-TCDD-13C                                                    | 128%   |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,6,7,8-HxCDD-13C                                               | 46%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,6,7,8-HxCDF-13C                                               | 49%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,7,8,9-HxCDD-13C                                               | 158%   |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,7,8,9-HxCDF-13C                                               | 51%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,7,8-PeCDD-13C                                                 | 45%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 1,2,3,7,8-PeCDF-13C                                                 | 44%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 2,3,4,6,7,8-HxCDF-13C                                               | 49%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 2,3,4,7,8-PeCDF-13C                                                 | 45%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 2,3,7,8-TCDD-13C                                                    | 38%    |     | 40.0-135.0 |       |     | 06/27/24 | P         |
| 2,3,7,8-TCDD-37Cl4                                                  | 53%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| 2,3,7,8-TCDF-13C                                                    | 40%    |     | 40.0-135.0 |       |     | 06/27/24 |           |
| OCDD-13C                                                            | 55%    |     | 40.0-135.0 |       |     | 06/27/24 |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRF Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Quality Control Results

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

| Analyte | Result | MDL | MRL | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|---------|--------|-----|-----|-------|-------------|---------------|------|--------|-----|-----------|-----------|
|---------|--------|-----|-----|-------|-------------|---------------|------|--------|-----|-----------|-----------|

**Batch: 37800 - SW8290**

#### BLK (BLANK-113477)

**Prepared: 06/20/24 Analyzed: 06/22/24**

|                     |    |     |     |      |
|---------------------|----|-----|-----|------|
| 1,2,3,4,6,7,8-HpCDD | ND | 4.4 | 52  | pg/L |
| 1,2,3,4,6,7,8-HpCDF | ND | 4.4 | 52  | pg/L |
| 1,2,3,4,7,8,9-HpCDF | ND | 5.3 | 52  | pg/L |
| 1,2,3,4,7,8-HxCDD   | ND | 4.2 | 52  | pg/L |
| 1,2,3,4,7,8-HxCDF   | ND | 4.3 | 52  | pg/L |
| 1,2,3,6,7,8-HxCDD   | ND | 3.9 | 52  | pg/L |
| 1,2,3,6,7,8-HxCDF   | ND | 4.8 | 52  | pg/L |
| 1,2,3,7,8,9-HxCDD   | ND | 5.1 | 52  | pg/L |
| 1,2,3,7,8,9-HxCDF   | ND | 5.0 | 52  | pg/L |
| 1,2,3,7,8-PeCDD     | ND | 2.0 | 52  | pg/L |
| 1,2,3,7,8-PeCDF     | ND | 2.7 | 52  | pg/L |
| 2,3,4,6,7,8-HxCDF   | ND | 4.2 | 52  | pg/L |
| 2,3,4,7,8-PeCDF     | ND | 2.2 | 52  | pg/L |
| 2,3,7,8-TCDD        | ND | 2.3 | 10  | pg/L |
| 2,3,7,8-TCDF        | ND | 2.3 | 10  | pg/L |
| OCDD                | ND | 15  | 100 | pg/L |
| OCDF                | ND | 15  | 100 | pg/L |
| Total HpCDD         | ND | 4.4 | 52  | pg/L |
| Total HpCDF         | ND | 4.4 | 52  | pg/L |
| Total HxCDD         | ND | 3.9 | 52  | pg/L |
| Total HxCDF         | ND | 4.2 | 52  | pg/L |
| Total PeCDD         | ND | 2.0 | 52  | pg/L |
| Total PeCDF         | ND | 2.2 | 52  | pg/L |
| Total TCDD          | ND | 2.3 | 10  | pg/L |
| Total TCDF          | ND | 2.3 | 10  | pg/L |

#### Surrogate(s)

|                         |      |      |      |    |            |
|-------------------------|------|------|------|----|------------|
| 1,2,3,4,6,7,8-HpCDD-13C | 980  | pg/L | 2100 | 47 | 40.0-135.0 |
| 1,2,3,4,6,7,8-HpCDF-13C | 1000 | pg/L | 2100 | 49 | 40.0-135.0 |
| 1,2,3,4,7,8,9-HpCDF-13C | 1100 | pg/L | 2100 | 53 | 40.0-135.0 |
| 1,2,3,4,7,8-HxCDD-13C   | 1200 | pg/L | 2100 | 58 | 40.0-135.0 |
| 1,2,3,4,7,8-HxCDF-13C   | 1500 | pg/L | 2100 | 71 | 40.0-135.0 |
| 1,2,3,6,7,8-HxCDD-13C   | 1300 | pg/L | 2100 | 65 | 40.0-135.0 |
| 1,2,3,6,7,8-HxCDF-13C   | 1500 | pg/L | 2100 | 73 | 40.0-135.0 |
| 1,2,3,7,8,9-HxCDF-13C   | 1200 | pg/L | 2100 | 58 | 40.0-135.0 |
| 1,2,3,7,8-PeCDD-13C     | 1300 | pg/L | 2100 | 64 | 40.0-135.0 |
| 1,2,3,7,8-PeCDF-13C     | 1100 | pg/L | 2100 | 54 | 40.0-135.0 |
| 2,3,4,6,7,8-HxCDF-13C   | 1400 | pg/L | 2100 | 66 | 40.0-135.0 |
| 2,3,4,7,8-PeCDF-13C     | 1300 | pg/L | 2100 | 61 | 40.0-135.0 |
| 2,3,7,8-TCDD-13C        | 1200 | pg/L | 2100 | 57 | 40.0-135.0 |

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**Project Number:** 2024 Annual CWRF Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
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## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                           | Result | MDL | MRL | Units | Spike Level                                              | Source Result | %REC Limits | RPD        | RPD Limit | Qualifier |
|-----------------------------------|--------|-----|-----|-------|----------------------------------------------------------|---------------|-------------|------------|-----------|-----------|
| Batch: 37800 - SW8290 (Continued) |        |     |     |       |                                                          |               |             |            |           |           |
| BLK (BLANK-113477)                |        |     |     |       | Prepared: 06/20/24 Analyzed: 06/22/24                    |               |             |            |           |           |
| Surrogate(s)                      |        |     |     |       |                                                          |               |             |            |           |           |
| 2,3,7,8-TCDF-13C                  | 1400   |     |     | pg/L  | 2100                                                     | 66            | 40.0-135.0  |            |           |           |
| OCDD-13C                          | 1700   |     |     | pg/L  | 4200                                                     | 41            | 40.0-135.0  |            |           |           |
| BS (LCS-113478)                   |        |     |     |       | Prepared: 06/20/24 Analyzed: 06/23/24                    |               |             |            |           |           |
| 1,2,3,4,6,7,8-HpCDD               | 980    | 4.4 | 52  | pg/L  | 1000                                                     | 94            | 70.0-130.0  |            |           |           |
| 1,2,3,4,6,7,8-HpCDF               | 1100   | 4.4 | 52  | pg/L  | 1000                                                     | 104           | 70.0-130.0  |            |           |           |
| 1,2,3,4,7,8,9-HpCDF               | 960    | 5.2 | 52  | pg/L  | 1000                                                     | 92            | 70.0-130.0  |            |           |           |
| 1,2,3,4,7,8-HxCDD                 | 1200   | 4.2 | 52  | pg/L  | 1000                                                     | 118           | 70.0-130.0  |            |           |           |
| 1,2,3,4,7,8-HxCDF                 | 1100   | 4.3 | 52  | pg/L  | 1000                                                     | 103           | 70.0-130.0  |            |           |           |
| 1,2,3,6,7,8-HxCDD                 | 1100   | 3.9 | 52  | pg/L  | 1000                                                     | 110           | 70.0-130.0  |            |           |           |
| 1,2,3,6,7,8-HxCDF                 | 1100   | 4.8 | 52  | pg/L  | 1000                                                     | 107           | 70.0-130.0  |            |           |           |
| 1,2,3,7,8,9-HxCDD                 | 1300   | 5.1 | 52  | pg/L  | 1000                                                     | 125           | 70.0-130.0  |            |           |           |
| 1,2,3,7,8,9-HxCDF                 | 1100   | 5.0 | 52  | pg/L  | 1000                                                     | 105           | 70.0-130.0  |            |           |           |
| 1,2,3,7,8-PeCDD                   | 990    | 2.0 | 52  | pg/L  | 1000                                                     | 95            | 70.0-130.0  |            |           |           |
| 1,2,3,7,8-PeCDF                   | 1200   | 2.7 | 52  | pg/L  | 1000                                                     | 113           | 70.0-130.0  |            |           |           |
| 2,3,4,6,7,8-HxCDF                 | 1100   | 4.2 | 52  | pg/L  | 1000                                                     | 110           | 70.0-130.0  |            |           |           |
| 2,3,4,7,8-PeCDF                   | 1100   | 2.2 | 52  | pg/L  | 1000                                                     | 108           | 70.0-130.0  |            |           |           |
| 2,3,7,8-TCDD                      | 230    | 2.3 | 10  | pg/L  | 210                                                      | 112           | 70.0-130.0  |            |           |           |
| 2,3,7,8-TCDF                      | 210    | 2.3 | 10  | pg/L  | 210                                                      | 100           | 70.0-130.0  |            |           |           |
| OCDD                              | 2400   | 15  | 100 | pg/L  | 2100                                                     | 113           | 70.0-130.0  |            |           |           |
| OCDF                              | 2400   | 15  | 100 | pg/L  | 2100                                                     | 116           | 70.0-130.0  |            |           |           |
| Surrogate(s)                      |        |     |     |       |                                                          |               |             |            |           |           |
| 1,2,3,4,6,7,8-HpCDD-13C           | 950    |     |     | pg/L  | 2100                                                     | 45            | 40.0-135.0  |            |           |           |
| 1,2,3,4,6,7,8-HpCDF-13C           | 890    |     |     | pg/L  | 2100                                                     | 43            | 40.0-135.0  |            |           |           |
| 1,2,3,4,7,8,9-HpCDF-13C           | 950    |     |     | pg/L  | 2100                                                     | 45            | 40.0-135.0  |            |           |           |
| 1,2,3,4,7,8-HxCDD-13C             | 920    |     |     | pg/L  | 2100                                                     | 44            | 40.0-135.0  |            |           |           |
| 1,2,3,4,7,8-HxCDF-13C             | 1100   |     |     | pg/L  | 2100                                                     | 52            | 40.0-135.0  |            |           |           |
| 1,2,3,6,7,8-HxCDD-13C             | 960    |     |     | pg/L  | 2100                                                     | 46            | 40.0-135.0  |            |           |           |
| 1,2,3,6,7,8-HxCDF-13C             | 1000   |     |     | pg/L  | 2100                                                     | 49            | 40.0-135.0  |            |           |           |
| 1,2,3,7,8,9-HxCDF-13C             | 1100   |     |     | pg/L  | 2100                                                     | 50            | 40.0-135.0  |            |           |           |
| 1,2,3,7,8-PeCDD-13C               | 1100   |     |     | pg/L  | 2100                                                     | 55            | 40.0-135.0  |            |           |           |
| 1,2,3,7,8-PeCDF-13C               | 1000   |     |     | pg/L  | 2100                                                     | 50            | 40.0-135.0  |            |           |           |
| 2,3,4,6,7,8-HxCDF-13C             | 1000   |     |     | pg/L  | 2100                                                     | 50            | 40.0-135.0  |            |           |           |
| 2,3,4,7,8-PeCDF-13C               | 1100   |     |     | pg/L  | 2100                                                     | 54            | 40.0-135.0  |            |           |           |
| 2,3,7,8-TCDD-13C                  | 980    |     |     | pg/L  | 2100                                                     | 47            | 40.0-135.0  |            |           |           |
| 2,3,7,8-TCDF-13C                  | 1200   |     |     | pg/L  | 2100                                                     | 55            | 40.0-135.0  |            |           |           |
| OCDD-13C                          | 1400   |     |     | pg/L  | 4200                                                     | 34            | 40.0-135.0  |            |           | P         |
| LCSD (LCSD-113479)                |        |     |     |       | Source: LCS-113478 Prepared: 06/20/24 Analyzed: 06/23/24 |               |             |            |           |           |
| 1,2,3,4,6,7,8-HpCDD               | 1000   | 4.4 | 52  | pg/L  | 1000                                                     | 980           | 96          | 70.0-130.0 | 1.6       | 20.0      |

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## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                                  | Result | MDL | MRL                       | Units | Spike Level | Source Result             | %REC | Limit      | RPD                       | Limit | Qualifier |
|------------------------------------------|--------|-----|---------------------------|-------|-------------|---------------------------|------|------------|---------------------------|-------|-----------|
| <b>Batch: 37800 - SW8290 (Continued)</b> |        |     |                           |       |             |                           |      |            |                           |       |           |
| <b>LCSD (LCSD-113479)</b>                |        |     | <b>Source: LCS-113478</b> |       |             | <b>Prepared: 06/20/24</b> |      |            | <b>Analyzed: 06/23/24</b> |       |           |
| 1,2,3,4,6,7,8-HpCDF                      | 1100   | 4.4 | 52                        | pg/L  | 1000        | 1100                      | 106  | 70.0-130.0 | 1.5                       | 20.0  |           |
| 1,2,3,4,7,8,9-HpCDF                      | 1000   | 5.2 | 52                        | pg/L  | 1000        | 960                       | 99   | 70.0-130.0 | 7.7                       | 20.0  |           |
| 1,2,3,4,7,8-HxCDD                        | 1300   | 4.2 | 52                        | pg/L  | 1000        | 1200                      | 121  | 70.0-130.0 | 2.5                       | 20.0  |           |
| 1,2,3,4,7,8-HxCDF                        | 1200   | 4.3 | 52                        | pg/L  | 1000        | 1100                      | 113  | 70.0-130.0 | 8.5                       | 20.0  |           |
| 1,2,3,6,7,8-HxCDD                        | 1100   | 3.9 | 52                        | pg/L  | 1000        | 1100                      | 110  | 70.0-130.0 | 0.1                       | 20.0  |           |
| 1,2,3,6,7,8-HxCDF                        | 1100   | 4.8 | 52                        | pg/L  | 1000        | 1100                      | 109  | 70.0-130.0 | 1.8                       | 20.0  |           |
| 1,2,3,7,8,9-HxCDD                        | 1300   | 5.1 | 52                        | pg/L  | 1000        | 1300                      | 122  | 70.0-130.0 | 2.7                       | 20.0  |           |
| 1,2,3,7,8,9-HxCDF                        | 1200   | 5.0 | 52                        | pg/L  | 1000        | 1100                      | 112  | 70.0-130.0 | 7.0                       | 20.0  |           |
| 1,2,3,7,8-PeCDD                          | 1000   | 2.0 | 52                        | pg/L  | 1000        | 990                       | 99   | 70.0-130.0 | 4.0                       | 20.0  |           |
| 1,2,3,7,8-PeCDF                          | 1200   | 2.7 | 52                        | pg/L  | 1000        | 1200                      | 117  | 70.0-130.0 | 2.8                       | 20.0  |           |
| 2,3,4,6,7,8-HxCDF                        | 1200   | 4.1 | 52                        | pg/L  | 1000        | 1100                      | 112  | 70.0-130.0 | 2.6                       | 20.0  |           |
| 2,3,4,7,8-PeCDF                          | 1200   | 2.2 | 52                        | pg/L  | 1000        | 1100                      | 111  | 70.0-130.0 | 3.4                       | 20.0  |           |
| 2,3,7,8-TCDD                             | 220    | 2.3 | 10                        | pg/L  | 210         | 230                       | 107  | 70.0-130.0 | 4.8                       | 20.0  |           |
| 2,3,7,8-TCDF                             | 220    | 2.3 | 10                        | pg/L  | 210         | 210                       | 105  | 70.0-130.0 | 5.1                       | 20.0  |           |
| OCDD                                     | 2500   | 15  | 100                       | pg/L  | 2100        | 2400                      | 118  | 70.0-130.0 | 4.5                       | 20.0  |           |
| OCDF                                     | 2600   | 15  | 100                       | pg/L  | 2100        | 2400                      | 125  | 70.0-130.0 | 7.2                       | 20.0  |           |
| <i>Surrogate(s)</i>                      |        |     |                           |       |             |                           |      |            |                           |       |           |
| 1,2,3,4,6,7,8-HpCDD-13C                  | 970    |     |                           | pg/L  | 2100        |                           | 47   | 40.0-135.0 |                           |       |           |
| 1,2,3,4,6,7,8-HpCDF-13C                  | 950    |     |                           | pg/L  | 2100        |                           | 45   | 40.0-135.0 |                           |       |           |
| 1,2,3,4,7,8,9-HpCDF-13C                  | 900    |     |                           | pg/L  | 2100        |                           | 43   | 40.0-135.0 |                           |       |           |
| 1,2,3,4,7,8-HxCDD-13C                    | 1000   |     |                           | pg/L  | 2100        |                           | 50   | 40.0-135.0 |                           |       |           |
| 1,2,3,4,7,8-HxCDF-13C                    | 1200   |     |                           | pg/L  | 2100        |                           | 60   | 40.0-135.0 |                           |       |           |
| 1,2,3,6,7,8-HxCDD-13C                    | 1100   |     |                           | pg/L  | 2100        |                           | 53   | 40.0-135.0 |                           |       |           |
| 1,2,3,6,7,8-HxCDF-13C                    | 1200   |     |                           | pg/L  | 2100        |                           | 59   | 40.0-135.0 |                           |       |           |
| 1,2,3,7,8,9-HxCDF-13C                    | 1200   |     |                           | pg/L  | 2100        |                           | 58   | 40.0-135.0 |                           |       |           |
| 1,2,3,7,8-PeCDD-13C                      | 1300   |     |                           | pg/L  | 2100        |                           | 62   | 40.0-135.0 |                           |       |           |
| 1,2,3,7,8-PeCDF-13C                      | 1200   |     |                           | pg/L  | 2100        |                           | 57   | 40.0-135.0 |                           |       |           |
| 2,3,4,6,7,8-HxCDF-13C                    | 1200   |     |                           | pg/L  | 2100        |                           | 56   | 40.0-135.0 |                           |       |           |
| 2,3,4,7,8-PeCDF-13C                      | 1200   |     |                           | pg/L  | 2100        |                           | 55   | 40.0-135.0 |                           |       |           |
| 2,3,7,8-TCDD-13C                         | 1000   |     |                           | pg/L  | 2100        |                           | 50   | 40.0-135.0 |                           |       |           |
| 2,3,7,8-TCDF-13C                         | 1200   |     |                           | pg/L  | 2100        |                           | 58   | 40.0-135.0 |                           |       |           |
| OCDD-13C                                 | 1600   |     |                           | pg/L  | 4200        |                           | 38   | 40.0-135.0 |                           |       | P         |

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**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS

| Analyte                           | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4F1235 - EPA 625.1</b> |        |     |       |                                              |               |      |        |     |           |           |
| <b>Blank (W4F1235-BLK1)</b>       |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |      |        |     |           |           |
| 1,2,4-Trichlorobenzene            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,2-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,2-Diphenylhydrazine/Azobenzene  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,3-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,4-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4,6-Trichlorophenol             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dichlorophenol                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dimethylphenol                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dinitrophenol                 | ND     | 10  | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dinitrotoluene                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,6-Dinitrotoluene                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Chloronaphthalene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Chlorophenol                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Methyl-4,6-dinitrophenol        | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Nitrophenol                     | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 3,3'-Dichlorobenzidine            | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Bromophenyl phenyl ether        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Chloro-3-methylphenol           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Chlorophenyl phenyl ether       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Nitrophenol                     | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| Acenaphthene                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Acenaphthylene                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Anthracene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzidine                         | ND     | 10  | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (a) anthracene              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (a) pyrene                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (b) fluoranthene            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (g,h,i) perylene            | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (k) fluoranthene            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-chloroethoxy)methane        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-chloroethyl)ether           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-chloroisopropyl)ether       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-ethylhexyl)phthalate        | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| Butyl benzyl phthalate            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Chrysene                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Dibenzo (a,h) anthracene          | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           |           |
| Diethyl phthalate                 | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Dimethyl phthalate                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Di-n-butyl phthalate              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |        |     |           |           |
| <b>Blank (W4F1235-BLK1)</b>                   |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |      |        |     |           |           |
| Di-n-octyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Fluoranthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Fluorene                                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Hexachlorobenzene                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Hexachlorobutadiene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Hexachlorocyclopentadiene                     | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| Hexachloroethane                              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Indeno (1,2,3-cd) pyrene                      | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           |           |
| Isophorone                                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Naphthalene                                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Nitrobenzene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| N-Nitrosodimethylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| N-Nitrosodi-n-propylamine                     | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| N-Nitrosodiphenylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Pentachlorophenol                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Phenanthrene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Phenol                                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Pyrene                                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |        |     |           |           |
| 2,4,6-Tribromophenol                          | 26.5   |     | ug/l  | 40.0                                         |               | 66   | 25-120 |     |           |           |
| 2-Fluorobiphenyl                              | 15.8   |     | ug/l  | 20.0                                         |               | 79   | 22-120 |     |           |           |
| 2-Fluorophenol                                | 19.6   |     | ug/l  | 40.0                                         |               | 49   | 17-120 |     |           |           |
| Nitrobenzene-d5                               | 15.2   |     | ug/l  | 20.0                                         |               | 76   | 47-120 |     |           |           |
| Phenol-d5                                     | 11.8   |     | ug/l  | 40.0                                         |               | 29   | 12-120 |     |           |           |
| Terphenyl-d14                                 | 22.6   |     | ug/l  | 20.0                                         |               | 113  | 44-129 |     |           |           |
| <b>Blank (W4F1235-BLK2)</b>                   |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |        |     |           |           |
| 1,2,4-Trichlorobenzene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 1,2-Dichlorobenzene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 1,2-Diphenylhydrazine/Azobenzene              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 1,3-Dichlorobenzene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 1,4-Dichlorobenzene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2,4,6-Trichlorophenol                         | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2,4-Dichlorophenol                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2,4-Dimethylphenol                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2,4-Dinitrophenol                             | ND     | 10  | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2,4-Dinitrotoluene                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2,6-Dinitrotoluene                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2-Chloronaphthalene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2-Chlorophenol                                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |



Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |        |     |           |           |
| <b>Blank (W4F1235-BLK2)</b>                   |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |        |     |           |           |
| 2-Methyl-4,6-dinitrophenol                    | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 2-Nitrophenol                                 | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 3,3'-Dichlorobenzidine                        | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 4-Bromophenyl phenyl ether                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 4-Chloro-3-methylphenol                       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 4-Chlorophenyl phenyl ether                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| 4-Nitrophenol                                 | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Acenaphthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Acenaphthylene                                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Anthracene                                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzidine                                     | ND     | 10  | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (a) anthracene                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (a) pyrene                              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (b) fluoranthene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (g,h,i) perylene                        | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (k) fluoranthene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-chloroethoxy)methane                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-chloroethyl)ether                       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-chloroisopropyl)ether                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-ethylhexyl)phthalate                    | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Butyl benzyl phthalate                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Chrysene                                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Dibenzo (a,h) anthracene                      | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Diethyl phthalate                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Dimethyl phthalate                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Di-n-butyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Di-n-octyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Fluoranthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Fluorene                                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachlorobenzene                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachlorobutadiene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachlorocyclopentadiene                     | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachloroethane                              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Indeno (1,2,3-cd) pyrene                      | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Isophorone                                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Naphthalene                                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Nitrobenzene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| N-Nitrosodimethylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| N-Nitrosodi-n-propylamine                     | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit  | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |        |     |       |           |
| <b>Blank (W4F1235-BLK2)</b>                   |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |        |     |       |           |
| N-Nitrosodiphenylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Pentachlorophenol                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Phenanthrene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Phenol                                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Pyrene                                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |        |     |       |           |
| 2,4,6-Tribromophenol                          | 27.0   |     | ug/l  | 40.0                                         |               | 68   | 25-120 |     |       | QC-2      |
| 2-Fluorobiphenyl                              | 15.9   |     | ug/l  | 20.0                                         |               | 80   | 22-120 |     |       | QC-2      |
| 2-Fluorophenol                                | 15.8   |     | ug/l  | 40.0                                         |               | 40   | 17-120 |     |       | QC-2      |
| Nitrobenzene-d5                               | 15.8   |     | ug/l  | 20.0                                         |               | 79   | 47-120 |     |       | QC-2      |
| Phenol-d5                                     | 11.5   |     | ug/l  | 40.0                                         |               | 29   | 12-120 |     |       | QC-2      |
| Terphenyl-d14                                 | 23.2   |     | ug/l  | 20.0                                         |               | 116  | 44-129 |     |       | QC-2      |
| <b>Blank (W4F1235-BLK3)</b>                   |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/25/24</b> |               |      |        |     |       |           |
| 1,2,4-Trichlorobenzene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 1,2-Dichlorobenzene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 1,2-Diphenylhydrazine/Azobenzene              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 1,3-Dichlorobenzene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 1,4-Dichlorobenzene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2,4,6-Trichlorophenol                         | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2,4-Dichlorophenol                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2,4-Dimethylphenol                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2,4-Dinitrophenol                             | ND     | 10  | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2,4-Dinitrotoluene                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2,6-Dinitrotoluene                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2-Chloronaphthalene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2-Chlorophenol                                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2-Methyl-4,6-dinitrophenol                    | ND     | 5.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 2-Nitrophenol                                 | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 3,3'-Dichlorobenzidine                        | ND     | 5.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 4-Bromophenyl phenyl ether                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 4-Chloro-3-methylphenol                       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 4-Chlorophenyl phenyl ether                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| 4-Nitrophenol                                 | ND     | 5.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Acenaphthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Acenaphthylene                                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Anthracene                                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Benzidine                                     | ND     | 10  | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Benzo (a) anthracene                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |
| Benzo (a) pyrene                              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |       | QC-2      |

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Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

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08/07/2024 15:32

## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |        |     |           |           |
| <b>Blank (W4F1235-BLK3)</b>                   |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/25/24</b> |               |      |        |     |           |           |
| Benzo (b) fluoranthene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (g,h,i) perylene                        | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Benzo (k) fluoranthene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-chloroethoxy)methane                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-chloroethyl)ether                       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-chloroisopropyl)ether                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Bis(2-ethylhexyl)phthalate                    | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Butyl benzyl phthalate                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Chrysene                                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Dibenzo (a,h) anthracene                      | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Diethyl phthalate                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Dimethyl phthalate                            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Di-n-butyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Di-n-octyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Fluoranthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Fluorene                                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachlorobenzene                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachlorobutadiene                           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachlorocyclopentadiene                     | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Hexachloroethane                              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Indeno (1,2,3-cd) pyrene                      | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Isophorone                                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Naphthalene                                   | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Nitrobenzene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| N-Nitrosodimethylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| N-Nitrosodi-n-propylamine                     | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| N-Nitrosodiphenylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Pentachlorophenol                             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Phenanthrene                                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Phenol                                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| Pyrene                                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           | QC-2      |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |        |     |           |           |
| 2,4,6-Tribromophenol                          | 23.7   |     | ug/l  | 40.0                                         |               | 59   | 25-120 |     |           | QC-2      |
| 2-Fluorobiphenyl                              | 15.2   |     | ug/l  | 20.0                                         |               | 76   | 22-120 |     |           | QC-2      |
| 2-Fluorophenol                                | 13.4   |     | ug/l  | 40.0                                         |               | 33   | 17-120 |     |           | QC-2      |
| Nitrobenzene-d5                               | 16.0   |     | ug/l  | 20.0                                         |               | 80   | 47-120 |     |           | QC-2      |
| Phenol-d5                                     | 10.8   |     | ug/l  | 40.0                                         |               | 27   | 12-120 |     |           | QC-2      |
| Terphenyl-d14                                 | 21.7   |     | ug/l  | 20.0                                         |               | 108  | 44-129 |     |           | QC-2      |

### LCS (W4F1235-BS1)

**Prepared: 06/17/24 Analyzed: 06/28/24**

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |             |     |           |           |
| <b>LCS (W4F1235-BS1)</b>                      |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |             |     |           |           |
| 1,2,4-Trichlorobenzene                        | 15.2   | 1.0 | ug/l  | 20.0                                         |               | 76 57-130   |     |           |           |
| 1,2-Dichlorobenzene                           | 14.3   | 1.0 | ug/l  | 20.0                                         |               | 72 57-120   |     |           |           |
| 1,3-Dichlorobenzene                           | 14.1   | 1.0 | ug/l  | 20.0                                         |               | 70 55-120   |     |           |           |
| 1,4-Dichlorobenzene                           | 15.4   | 1.0 | ug/l  | 20.0                                         |               | 77 55-120   |     |           |           |
| 2,4,6-Trichlorophenol                         | 17.9   | 1.0 | ug/l  | 20.0                                         |               | 90 52-129   |     |           |           |
| 2,4-Dichlorophenol                            | 17.1   | 1.0 | ug/l  | 20.0                                         |               | 86 53-122   |     |           |           |
| 2,4-Dimethylphenol                            | 10.6   | 1.0 | ug/l  | 20.0                                         |               | 53 42-120   |     |           |           |
| 2,4-Dinitrophenol                             | 20.9   | 10  | ug/l  | 20.0                                         |               | 104 0.1-173 |     |           |           |
| 2,4-Dinitrotoluene                            | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85 48-127   |     |           |           |
| 2,6-Dinitrotoluene                            | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 85 68-137   |     |           |           |
| 2-Chloronaphthalene                           | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 80 65-120   |     |           |           |
| 2-Chlorophenol                                | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75 36-120   |     |           |           |
| 2-Methyl-4,6-dinitrophenol                    | 19.2   | 5.0 | ug/l  | 20.0                                         |               | 96 53-130   |     |           |           |
| 2-Nitrophenol                                 | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88 45-167   |     |           |           |
| 3,3'-Dichlorobenzidine                        | 12.4   | 5.0 | ug/l  | 20.0                                         |               | 62 8-213    |     |           |           |
| 4-Bromophenyl phenyl ether                    | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 88 65-120   |     |           |           |
| 4-Chloro-3-methylphenol                       | 15.1   | 1.0 | ug/l  | 20.0                                         |               | 75 41-128   |     |           |           |
| 4-Chlorophenyl phenyl ether                   | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80 38-145   |     |           |           |
| 4-Nitrophenol                                 | 5.69   | 5.0 | ug/l  | 20.0                                         |               | 28 13-129   |     |           |           |
| Acenaphthene                                  | 18.3   | 1.0 | ug/l  | 20.0                                         |               | 91 60-132   |     |           |           |
| Acenaphthylene                                | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 87 54-126   |     |           |           |
| Anthracene                                    | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 84 43-120   |     |           |           |
| Benzo (a) anthracene                          | 17.8   | 1.0 | ug/l  | 20.0                                         |               | 89 42-133   |     |           |           |
| Benzo (a) pyrene                              | 19.3   | 1.0 | ug/l  | 20.0                                         |               | 96 32-148   |     |           |           |
| Benzo (b) fluoranthene                        | 19.4   | 1.0 | ug/l  | 20.0                                         |               | 97 42-140   |     |           | AN-IP     |
| Benzo (g,h,i) perylene                        | 19.3   | 2.0 | ug/l  | 20.0                                         |               | 96 0.1-195  |     |           |           |
| Benzo (k) fluoranthene                        | 18.0   | 1.0 | ug/l  | 20.0                                         |               | 90 25-146   |     |           | AN-IP     |
| Bis(2-chloroethoxy)methane                    | 15.8   | 1.0 | ug/l  | 20.0                                         |               | 79 49-165   |     |           |           |
| Bis(2-chloroethyl)ether                       | 14.2   | 1.0 | ug/l  | 20.0                                         |               | 71 43-126   |     |           |           |
| Bis(2-chloroisopropyl)ether                   | 14.7   | 1.0 | ug/l  | 20.0                                         |               | 73 63-139   |     |           |           |
| Bis(2-ethylhexyl)phthalate                    | 21.4   | 5.0 | ug/l  | 20.0                                         |               | 107 29-137  |     |           |           |
| Butyl benzyl phthalate                        | 19.9   | 1.0 | ug/l  | 20.0                                         |               | 100 0.1-140 |     |           |           |
| Chrysene                                      | 18.8   | 1.0 | ug/l  | 20.0                                         |               | 94 44-140   |     |           |           |
| Dibenzo (a,h) anthracene                      | 15.2   | 2.0 | ug/l  | 20.0                                         |               | 76 0.1-200  |     |           |           |
| Diethyl phthalate                             | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85 0.1-120  |     |           |           |
| Dimethyl phthalate                            | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83 0.1-120  |     |           |           |
| Di-n-butyl phthalate                          | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 86 8-120    |     |           |           |
| Di-n-octyl phthalate                          | 20.2   | 1.0 | ug/l  | 20.0                                         |               | 101 19-132  |     |           |           |
| Fluoranthene                                  | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 91 43-121   |     |           |           |

Encina Wastewater Authority  
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**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |       |           |
| <b>LCS (W4F1235-BS1)</b>                      |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |      |         |     |       |           |
| Fluorene                                      | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 70-120  |     |       |           |
| Hexachlorobenzene                             | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 8-142   |     |       |           |
| Hexachlorobutadiene                           | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 78   | 38-120  |     |       |           |
| Hexachlorocyclopentadiene                     | 11.0   | 5.0 | ug/l  | 20.0                                         |               | 55   | 10-120  |     |       |           |
| Hexachloroethane                              | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 80   | 55-120  |     |       |           |
| Indeno (1,2,3-cd) pyrene                      | 17.4   | 2.0 | ug/l  | 20.0                                         |               | 87   | 0.1-151 |     |       |           |
| Isophorone                                    | 13.2   | 1.0 | ug/l  | 20.0                                         |               | 66   | 47-180  |     |       |           |
| Naphthalene                                   | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 77   | 36-120  |     |       |           |
| Nitrobenzene                                  | 15.4   | 1.0 | ug/l  | 20.0                                         |               | 77   | 54-158  |     |       |           |
| N-Nitrosodimethylamine                        | 7.30   | 1.0 | ug/l  | 20.0                                         |               | 37   | 22-120  |     |       |           |
| N-Nitrosodi-n-propylamine                     | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 14-198  |     |       |           |
| N-Nitrosodiphenylamine                        | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 72   | 47-120  |     |       |           |
| Pentachlorophenol                             | 15.7   | 1.0 | ug/l  | 20.0                                         |               | 79   | 41-120  |     |       |           |
| Phenanthrene                                  | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 85   | 65-120  |     |       |           |
| Phenol                                        | 5.27   | 1.0 | ug/l  | 20.0                                         |               | 26   | 17-120  |     |       |           |
| Pyrene                                        | 18.3   | 1.0 | ug/l  | 20.0                                         |               | 91   | 70-120  |     |       |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |       |           |
| 2,4,6-Tribromophenol                          | 33.3   |     | ug/l  | 40.0                                         |               | 83   | 25-120  |     |       |           |
| 2-Fluorobiphenyl                              | 16.5   |     | ug/l  | 20.0                                         |               | 82   | 22-120  |     |       |           |
| 2-Fluorophenol                                | 19.9   |     | ug/l  | 40.0                                         |               | 50   | 17-120  |     |       |           |
| Nitrobenzene-d5                               | 15.8   |     | ug/l  | 20.0                                         |               | 79   | 47-120  |     |       |           |
| Phenol-d5                                     | 11.7   |     | ug/l  | 40.0                                         |               | 29   | 12-120  |     |       |           |
| Terphenyl-d14                                 | 23.4   |     | ug/l  | 20.0                                         |               | 117  | 44-129  |     |       |           |
| <b>LCS (W4F1235-BS2)</b>                      |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |         |     |       |           |
| 1,2,4-Trichlorobenzene                        | 15.4   | 1.0 | ug/l  | 20.0                                         |               | 77   | 57-130  |     |       | QC-2      |
| 1,2-Dichlorobenzene                           | 14.2   | 1.0 | ug/l  | 20.0                                         |               | 71   | 57-120  |     |       | QC-2      |
| 1,3-Dichlorobenzene                           | 14.1   | 1.0 | ug/l  | 20.0                                         |               | 70   | 55-120  |     |       | QC-2      |
| 1,4-Dichlorobenzene                           | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 78   | 55-120  |     |       | QC-2      |
| 2,4,6-Trichlorophenol                         | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 85   | 52-129  |     |       | QC-2      |
| 2,4-Dichlorophenol                            | 17.2   | 1.0 | ug/l  | 20.0                                         |               | 86   | 53-122  |     |       | QC-2      |
| 2,4-Dinitrophenol                             | 20.8   | 10  | ug/l  | 20.0                                         |               | 104  | 0.1-173 |     |       | QC-2      |
| 2,4-Dinitrotoluene                            | 16.2   | 1.0 | ug/l  | 20.0                                         |               | 81   | 48-127  |     |       | QC-2      |
| 2,6-Dinitrotoluene                            | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 68-137  |     |       | QC-2      |
| 2-Chloronaphthalene                           | 16.2   | 1.0 | ug/l  | 20.0                                         |               | 81   | 65-120  |     |       | QC-2      |
| 2-Chlorophenol                                | 14.8   | 1.0 | ug/l  | 20.0                                         |               | 74   | 36-120  |     |       | QC-2      |
| 2-Methyl-4,6-dinitrophenol                    | 18.9   | 5.0 | ug/l  | 20.0                                         |               | 94   | 53-130  |     |       | QC-2      |
| 2-Nitrophenol                                 | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 45-167  |     |       | QC-2      |
| 4-Bromophenyl phenyl ether                    | 17.1   | 1.0 | ug/l  | 20.0                                         |               | 86   | 65-120  |     |       | QC-2      |
| 4-Chloro-3-methylphenol                       | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 72   | 41-128  |     |       | QC-2      |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits  | RPD | RPD Limit | Qualifier      |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-----------|----------------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |           |                |
| <b>LCS (W4F1235-BS2)</b>                      |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |         |     |           |                |
| 4-Chlorophenyl phenyl ether                   | 16.2   | 1.0 | ug/l  | 20.0                                         |               | 81   | 38-145  |     |           | QC-2           |
| 4-Nitrophenol                                 | 5.48   | 5.0 | ug/l  | 20.0                                         |               | 27   | 13-129  |     |           | QC-2           |
| Acenaphthene                                  | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 60-132  |     |           | QC-2           |
| Acenaphthylene                                | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88   | 54-126  |     |           | QC-2           |
| Anthracene                                    | 16.7   | 1.0 | ug/l  | 20.0                                         |               | 83   | 43-120  |     |           | QC-2           |
| Benzo (a) anthracene                          | 18.0   | 1.0 | ug/l  | 20.0                                         |               | 90   | 42-133  |     |           | QC-2           |
| Benzo (a) pyrene                              | 18.7   | 1.0 | ug/l  | 20.0                                         |               | 93   | 32-148  |     |           | QC-2           |
| Benzo (b) fluoranthene                        | 18.6   | 1.0 | ug/l  | 20.0                                         |               | 93   | 42-140  |     |           | QC-2,<br>AN-IP |
| Benzo (g,h,i) perylene                        | 18.8   | 2.0 | ug/l  | 20.0                                         |               | 94   | 0.1-195 |     |           | QC-2           |
| Benzo (k) fluoranthene                        | 18.6   | 1.0 | ug/l  | 20.0                                         |               | 93   | 25-146  |     |           | QC-2,<br>AN-IP |
| Bis(2-chloroethoxy)methane                    | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79   | 49-165  |     |           | QC-2           |
| Bis(2-chloroethyl)ether                       | 14.4   | 1.0 | ug/l  | 20.0                                         |               | 72   | 43-126  |     |           | QC-2           |
| Bis(2-chloroisopropyl)ether                   | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75   | 63-139  |     |           | QC-2           |
| Bis(2-ethylhexyl)phthalate                    | 21.5   | 5.0 | ug/l  | 20.0                                         |               | 108  | 29-137  |     |           | QC-2           |
| Butyl benzyl phthalate                        | 19.9   | 1.0 | ug/l  | 20.0                                         |               | 99   | 0.1-140 |     |           | QC-2           |
| Chrysene                                      | 18.9   | 1.0 | ug/l  | 20.0                                         |               | 94   | 44-140  |     |           | QC-2           |
| Dibenzo (a,h) anthracene                      | 15.0   | 2.0 | ug/l  | 20.0                                         |               | 75   | 0.1-200 |     |           | QC-2           |
| Diethyl phthalate                             | 16.4   | 1.0 | ug/l  | 20.0                                         |               | 82   | 0.1-120 |     |           | QC-2           |
| Dimethyl phthalate                            | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 83   | 0.1-120 |     |           | QC-2           |
| Di-n-butyl phthalate                          | 17.2   | 1.0 | ug/l  | 20.0                                         |               | 86   | 8-120   |     |           | QC-2           |
| Di-n-octyl phthalate                          | 19.9   | 1.0 | ug/l  | 20.0                                         |               | 100  | 19-132  |     |           | QC-2           |
| Fluoranthene                                  | 18.3   | 1.0 | ug/l  | 20.0                                         |               | 91   | 43-121  |     |           | QC-2           |
| Fluorene                                      | 17.4   | 1.0 | ug/l  | 20.0                                         |               | 87   | 70-120  |     |           | QC-2           |
| Hexachlorobenzene                             | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 84   | 8-142   |     |           | QC-2           |
| Hexachlorobutadiene                           | 15.1   | 1.0 | ug/l  | 20.0                                         |               | 75   | 38-120  |     |           | QC-2           |
| Hexachlorocyclopentadiene                     | 11.2   | 5.0 | ug/l  | 20.0                                         |               | 56   | 10-120  |     |           | QC-2           |
| Hexachloroethane                              | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79   | 55-120  |     |           | QC-2           |
| Indeno (1,2,3-cd) pyrene                      | 16.9   | 2.0 | ug/l  | 20.0                                         |               | 84   | 0.1-151 |     |           | QC-2           |
| Isophorone                                    | 13.3   | 1.0 | ug/l  | 20.0                                         |               | 66   | 47-180  |     |           | QC-2           |
| Naphthalene                                   | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 36-120  |     |           | QC-2           |
| Nitrobenzene                                  | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 54-158  |     |           | QC-2           |
| N-Nitrosodimethylamine                        | 8.78   | 1.0 | ug/l  | 20.0                                         |               | 44   | 22-120  |     |           | QC-2           |
| N-Nitrosodi-n-propylamine                     | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 14-198  |     |           | QC-2           |
| N-Nitrosodiphenylamine                        | 13.9   | 1.0 | ug/l  | 20.0                                         |               | 70   | 47-120  |     |           | QC-2           |
| Pentachlorophenol                             | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79   | 41-120  |     |           | QC-2           |
| Phenanthrene                                  | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 65-120  |     |           | QC-2           |
| Phenol                                        | 5.13   | 1.0 | ug/l  | 20.0                                         |               | 26   | 17-120  |     |           | QC-2           |
| Pyrene                                        | 19.2   | 1.0 | ug/l  | 20.0                                         |               | 96   | 70-120  |     |           | QC-2           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                | Result | MRL | Units | Spike Level                           | Source Result | %REC Limits | RPD | RPD Limit | Qualifier   |
|----------------------------------------|--------|-----|-------|---------------------------------------|---------------|-------------|-----|-----------|-------------|
| Batch: W4F1235 - EPA 625.1 (Continued) |        |     |       |                                       |               |             |     |           |             |
| LCS (W4F1235-BS2)                      |        |     |       | Prepared: 06/17/24 Analyzed: 07/10/24 |               |             |     |           |             |
| Surrogate(s)                           |        |     |       |                                       |               |             |     |           |             |
| 2,4,6-Tribromophenol                   | 32.3   |     | ug/l  | 40.0                                  |               | 81 25-120   |     |           | QC-2        |
| 2-Fluorobiphenyl                       | 16.1   |     | ug/l  | 20.0                                  |               | 80 22-120   |     |           | QC-2        |
| 2-Fluorophenol                         | 16.6   |     | ug/l  | 40.0                                  |               | 42 17-120   |     |           | QC-2        |
| Nitrobenzene-d5                        | 16.1   |     | ug/l  | 20.0                                  |               | 80 47-120   |     |           | QC-2        |
| Phenol-d5                              | 11.6   |     | ug/l  | 40.0                                  |               | 29 12-120   |     |           | QC-2        |
| Terphenyl-d14                          | 23.1   |     | ug/l  | 20.0                                  |               | 115 44-129  |     |           | QC-2        |
| LCS (W4F1235-BS3)                      |        |     |       | Prepared: 06/17/24 Analyzed: 07/25/24 |               |             |     |           |             |
| 1,2,4-Trichlorobenzene                 | 15.3   | 1.0 | ug/l  | 20.0                                  |               | 76 57-130   |     |           | QC-2        |
| 1,2-Dichlorobenzene                    | 14.3   | 1.0 | ug/l  | 20.0                                  |               | 71 57-120   |     |           | QC-2        |
| 1,3-Dichlorobenzene                    | 13.9   | 1.0 | ug/l  | 20.0                                  |               | 70 55-120   |     |           | QC-2        |
| 1,4-Dichlorobenzene                    | 15.4   | 1.0 | ug/l  | 20.0                                  |               | 77 55-120   |     |           | QC-2        |
| 2,4,6-Trichlorophenol                  | 16.4   | 1.0 | ug/l  | 20.0                                  |               | 82 52-129   |     |           | QC-2        |
| 2,4-Dichlorophenol                     | 16.7   | 1.0 | ug/l  | 20.0                                  |               | 83 53-122   |     |           | QC-2        |
| 2,4-Dimethylphenol                     | 0.675  | 1.0 | ug/l  | 20.0                                  |               | 3 42-120    |     |           | Q-02, QC-2  |
| 2,4-Dinitrophenol                      | 18.1   | 10  | ug/l  | 20.0                                  |               | 90 0.1-173  |     |           | QC-2        |
| 2,4-Dinitrotoluene                     | 16.5   | 1.0 | ug/l  | 20.0                                  |               | 82 48-127   |     |           | QC-2        |
| 2,6-Dinitrotoluene                     | 17.9   | 1.0 | ug/l  | 20.0                                  |               | 89 68-137   |     |           | QC-2        |
| 2-Chloronaphthalene                    | 15.3   | 1.0 | ug/l  | 20.0                                  |               | 76 65-120   |     |           | QC-2        |
| 2-Chlorophenol                         | 14.5   | 1.0 | ug/l  | 20.0                                  |               | 72 36-120   |     |           | QC-2        |
| 2-Methyl-4,6-dinitrophenol             | 17.3   | 5.0 | ug/l  | 20.0                                  |               | 86 53-130   |     |           | QC-2        |
| 2-Nitrophenol                          | 17.9   | 1.0 | ug/l  | 20.0                                  |               | 89 45-167   |     |           | QC-2        |
| 3,3'-Dichlorobenzidine                 | 6.80   | 5.0 | ug/l  | 20.0                                  |               | 34 8-213    |     |           | QC-2        |
| 4-Bromophenyl phenyl ether             | 16.3   | 1.0 | ug/l  | 20.0                                  |               | 81 65-120   |     |           | QC-2        |
| 4-Chloro-3-methylphenol                | 12.2   | 1.0 | ug/l  | 20.0                                  |               | 61 41-128   |     |           | QC-2        |
| 4-Chlorophenyl phenyl ether            | 15.5   | 1.0 | ug/l  | 20.0                                  |               | 78 38-145   |     |           | QC-2        |
| 4-Nitrophenol                          | 5.56   | 5.0 | ug/l  | 20.0                                  |               | 28 13-129   |     |           | QC-2        |
| Acenaphthene                           | 17.5   | 1.0 | ug/l  | 20.0                                  |               | 88 60-132   |     |           | QC-2        |
| Acenaphthylene                         | 17.5   | 1.0 | ug/l  | 20.0                                  |               | 87 54-126   |     |           | QC-2        |
| Anthracene                             | 16.3   | 1.0 | ug/l  | 20.0                                  |               | 82 43-120   |     |           | QC-2        |
| Benzo (a) anthracene                   | 17.2   | 1.0 | ug/l  | 20.0                                  |               | 86 42-133   |     |           | QC-2        |
| Benzo (a) pyrene                       | 18.2   | 1.0 | ug/l  | 20.0                                  |               | 91 32-148   |     |           | QC-2        |
| Benzo (b) fluoranthene                 | 20.1   | 1.0 | ug/l  | 20.0                                  |               | 101 42-140  |     |           | QC-2, AN-IP |
| Benzo (g,h,i) perylene                 | 19.8   | 2.0 | ug/l  | 20.0                                  |               | 99 0.1-195  |     |           | QC-2        |
| Benzo (k) fluoranthene                 | 17.1   | 1.0 | ug/l  | 20.0                                  |               | 85 25-146   |     |           | QC-2, AN-IP |
| Bis(2-chloroethoxy)methane             | 16.0   | 1.0 | ug/l  | 20.0                                  |               | 80 49-165   |     |           | QC-2        |
| Bis(2-chloroethyl)ether                | 14.5   | 1.0 | ug/l  | 20.0                                  |               | 72 43-126   |     |           | QC-2        |
| Bis(2-chloroisopropyl)ether            | 15.3   | 1.0 | ug/l  | 20.0                                  |               | 76 63-139   |     |           | QC-2        |



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**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |       |           |
| <b>LCS (W4F1235-BS3)</b>                      |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/25/24</b> |               |      |         |     |       |           |
| Bis(2-ethylhexyl)phthalate                    | 21.5   | 5.0 | ug/l  | 20.0                                         |               | 108  | 29-137  |     |       | QC-2      |
| Butyl benzyl phthalate                        | 20.1   | 1.0 | ug/l  | 20.0                                         |               | 100  | 0.1-140 |     |       | QC-2      |
| Chrysene                                      | 19.1   | 1.0 | ug/l  | 20.0                                         |               | 96   | 44-140  |     |       | QC-2      |
| Dibenzo (a,h) anthracene                      | 15.2   | 2.0 | ug/l  | 20.0                                         |               | 76   | 0.1-200 |     |       | QC-2      |
| Diethyl phthalate                             | 16.2   | 1.0 | ug/l  | 20.0                                         |               | 81   | 0.1-120 |     |       | QC-2      |
| Dimethyl phthalate                            | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 0.1-120 |     |       | QC-2      |
| Di-n-butyl phthalate                          | 17.4   | 1.0 | ug/l  | 20.0                                         |               | 87   | 8-120   |     |       | QC-2      |
| Di-n-octyl phthalate                          | 20.8   | 1.0 | ug/l  | 20.0                                         |               | 104  | 19-132  |     |       | QC-2      |
| Fluoranthene                                  | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 91   | 43-121  |     |       | QC-2      |
| Fluorene                                      | 16.7   | 1.0 | ug/l  | 20.0                                         |               | 84   | 70-120  |     |       | QC-2      |
| Hexachlorobenzene                             | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83   | 8-142   |     |       | QC-2      |
| Hexachlorobutadiene                           | 14.9   | 1.0 | ug/l  | 20.0                                         |               | 74   | 38-120  |     |       | QC-2      |
| Hexachlorocyclopentadiene                     | 4.67   | 5.0 | ug/l  | 20.0                                         |               | 23   | 10-120  |     |       | QC-2      |
| Hexachloroethane                              | 14.8   | 1.0 | ug/l  | 20.0                                         |               | 74   | 55-120  |     |       | QC-2      |
| Indeno (1,2,3-cd) pyrene                      | 17.2   | 2.0 | ug/l  | 20.0                                         |               | 86   | 0.1-151 |     |       | QC-2      |
| Isophorone                                    | 13.2   | 1.0 | ug/l  | 20.0                                         |               | 66   | 47-180  |     |       | QC-2      |
| Naphthalene                                   | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75   | 36-120  |     |       | QC-2      |
| Nitrobenzene                                  | 15.2   | 1.0 | ug/l  | 20.0                                         |               | 76   | 54-158  |     |       | QC-2      |
| N-Nitrosodimethylamine                        | 9.09   | 1.0 | ug/l  | 20.0                                         |               | 45   | 22-120  |     |       | QC-2      |
| N-Nitrosodi-n-propylamine                     | 16.1   | 1.0 | ug/l  | 20.0                                         |               | 81   | 14-198  |     |       | QC-2      |
| N-Nitrosodiphenylamine                        | 13.1   | 1.0 | ug/l  | 20.0                                         |               | 66   | 47-120  |     |       | QC-2      |
| Pentachlorophenol                             | 14.6   | 1.0 | ug/l  | 20.0                                         |               | 73   | 41-120  |     |       | QC-2      |
| Phenanthrene                                  | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 86   | 65-120  |     |       | QC-2      |
| Phenol                                        | 4.99   | 1.0 | ug/l  | 20.0                                         |               | 25   | 17-120  |     |       | QC-2      |
| Pyrene                                        | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88   | 70-120  |     |       | QC-2      |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |       |           |
| 2,4,6-Tribromophenol                          | 30.3   |     | ug/l  | 40.0                                         |               | 76   | 25-120  |     |       | QC-2      |
| 2-Fluorobiphenyl                              | 15.5   |     | ug/l  | 20.0                                         |               | 77   | 22-120  |     |       | QC-2      |
| 2-Fluorophenol                                | 15.6   |     | ug/l  | 40.0                                         |               | 39   | 17-120  |     |       | QC-2      |
| Nitrobenzene-d5                               | 16.2   |     | ug/l  | 20.0                                         |               | 81   | 47-120  |     |       | QC-2      |
| Phenol-d5                                     | 11.3   |     | ug/l  | 40.0                                         |               | 28   | 12-120  |     |       | QC-2      |
| Terphenyl-d14                                 | 23.1   |     | ug/l  | 20.0                                         |               | 116  | 44-129  |     |       | QC-2      |
| <b>LCS Dup (W4F1235-BSD1)</b>                 |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |      |         |     |       |           |
| 1,2,4-Trichlorobenzene                        | 16.7   | 1.0 | ug/l  | 20.0                                         |               | 84   | 57-130  | 10  | 30    |           |
| 1,2-Dichlorobenzene                           | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79   | 57-120  | 10  | 30    |           |
| 1,3-Dichlorobenzene                           | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 55-120  | 10  | 30    |           |
| 1,4-Dichlorobenzene                           | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85   | 55-120  | 10  | 30    |           |
| 2,4,6-Trichlorophenol                         | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 52-129  | 1   | 30    |           |
| 2,4-Dichlorophenol                            | 17.8   | 1.0 | ug/l  | 20.0                                         |               | 89   | 53-122  | 4   | 30    |           |



Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD  | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|------|-------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |      |       |           |
| <b>LCS Dup (W4F1235-BSD1)</b>                 |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |      |         |      |       |           |
| 2,4-Dimethylphenol                            | 12.7   | 1.0 | ug/l  | 20.0                                         |               | 63   | 42-120  | 18   | 30    |           |
| 2,4-Dinitrophenol                             | 21.1   | 10  | ug/l  | 20.0                                         |               | 106  | 0.1-173 | 1    | 30    |           |
| 2,4-Dinitrotoluene                            | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85   | 48-127  | 0.08 | 30    |           |
| 2,6-Dinitrotoluene                            | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 86   | 68-137  | 2    | 30    |           |
| 2-Chloronaphthalene                           | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 83   | 65-120  | 4    | 30    |           |
| 2-Chlorophenol                                | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 36-120  | 4    | 30    |           |
| 2-Methyl-4,6-dinitrophenol                    | 19.7   | 5.0 | ug/l  | 20.0                                         |               | 98   | 53-130  | 3    | 30    |           |
| 2-Nitrophenol                                 | 17.8   | 1.0 | ug/l  | 20.0                                         |               | 89   | 45-167  | 1    | 30    |           |
| 3,3'-Dichlorobenzidine                        | 7.86   | 5.0 | ug/l  | 20.0                                         |               | 39   | 8-213   | 44   | 30    | Q-12      |
| 4-Bromophenyl phenyl ether                    | 18.4   | 1.0 | ug/l  | 20.0                                         |               | 92   | 65-120  | 5    | 30    |           |
| 4-Chloro-3-methylphenol                       | 16.1   | 1.0 | ug/l  | 20.0                                         |               | 80   | 41-128  | 6    | 30    |           |
| 4-Chlorophenyl phenyl ether                   | 16.4   | 1.0 | ug/l  | 20.0                                         |               | 82   | 38-145  | 3    | 30    |           |
| 4-Nitrophenol                                 | 5.97   | 5.0 | ug/l  | 20.0                                         |               | 30   | 13-129  | 5    | 30    |           |
| Acenaphthene                                  | 18.7   | 1.0 | ug/l  | 20.0                                         |               | 93   | 60-132  | 2    | 30    |           |
| Acenaphthylene                                | 18.3   | 1.0 | ug/l  | 20.0                                         |               | 92   | 54-126  | 5    | 30    |           |
| Anthracene                                    | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 90   | 43-120  | 7    | 30    |           |
| Benzo (a) anthracene                          | 18.4   | 1.0 | ug/l  | 20.0                                         |               | 92   | 42-133  | 3    | 30    |           |
| Benzo (a) pyrene                              | 20.8   | 1.0 | ug/l  | 20.0                                         |               | 104  | 32-148  | 7    | 30    |           |
| Benzo (b) fluoranthene                        | 19.6   | 1.0 | ug/l  | 20.0                                         |               | 98   | 42-140  | 1    | 30    | AN-IP     |
| Benzo (g,h,i) perylene                        | 19.8   | 2.0 | ug/l  | 20.0                                         |               | 99   | 0.1-195 | 2    | 30    |           |
| Benzo (k) fluoranthene                        | 19.7   | 1.0 | ug/l  | 20.0                                         |               | 99   | 25-146  | 9    | 30    | AN-IP     |
| Bis(2-chloroethoxy)methane                    | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 49-165  | 1    | 30    |           |
| Bis(2-chloroethyl)ether                       | 14.9   | 1.0 | ug/l  | 20.0                                         |               | 74   | 43-126  | 4    | 30    |           |
| Bis(2-chloroisopropyl)ether                   | 15.1   | 1.0 | ug/l  | 20.0                                         |               | 75   | 63-139  | 3    | 30    |           |
| Bis(2-ethylhexyl)phthalate                    | 22.3   | 5.0 | ug/l  | 20.0                                         |               | 111  | 29-137  | 4    | 30    |           |
| Butyl benzyl phthalate                        | 20.7   | 1.0 | ug/l  | 20.0                                         |               | 103  | 0.1-140 | 4    | 30    |           |
| Chrysene                                      | 19.7   | 1.0 | ug/l  | 20.0                                         |               | 99   | 44-140  | 5    | 30    |           |
| Dibenzo (a,h) anthracene                      | 16.3   | 2.0 | ug/l  | 20.0                                         |               | 82   | 0.1-200 | 7    | 30    |           |
| Diethyl phthalate                             | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88   | 0.1-120 | 3    | 30    |           |
| Dimethyl phthalate                            | 17.2   | 1.0 | ug/l  | 20.0                                         |               | 86   | 0.1-120 | 4    | 30    |           |
| Di-n-butyl phthalate                          | 17.9   | 1.0 | ug/l  | 20.0                                         |               | 90   | 8-120   | 4    | 30    |           |
| Di-n-octyl phthalate                          | 21.0   | 1.0 | ug/l  | 20.0                                         |               | 105  | 19-132  | 4    | 30    |           |
| Fluoranthene                                  | 19.2   | 1.0 | ug/l  | 20.0                                         |               | 96   | 43-121  | 6    | 30    |           |
| Fluorene                                      | 18.0   | 1.0 | ug/l  | 20.0                                         |               | 90   | 70-120  | 4    | 30    |           |
| Hexachlorobenzene                             | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 90   | 8-142   | 4    | 30    |           |
| Hexachlorobutadiene                           | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85   | 38-120  | 9    | 30    |           |
| Hexachlorocyclopentadiene                     | 11.9   | 5.0 | ug/l  | 20.0                                         |               | 60   | 10-120  | 8    | 30    |           |
| Hexachloroethane                              | 17.9   | 1.0 | ug/l  | 20.0                                         |               | 89   | 55-120  | 12   | 30    |           |
| Indeno (1,2,3-cd) pyrene                      | 17.5   | 2.0 | ug/l  | 20.0                                         |               | 88   | 0.1-151 | 0.8  | 30    |           |

Encina Wastewater Authority  
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**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|-------------|-----|-----------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |             |     |           |           |
| <b>LCS Dup (W4F1235-BSD1)</b>                 |        |     |       | <b>Prepared: 06/17/24 Analyzed: 06/28/24</b> |               |      |             |     |           |           |
| Isophorone                                    | 13.5   | 1.0 | ug/l  | 20.0                                         |               | 68   | 47-180      | 3   | 30        |           |
| Naphthalene                                   | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83   | 36-120      | 7   | 30        |           |
| Nitrobenzene                                  | 15.8   | 1.0 | ug/l  | 20.0                                         |               | 79   | 54-158      | 3   | 30        |           |
| N-Nitrosodimethylamine                        | 8.28   | 1.0 | ug/l  | 20.0                                         |               | 41   | 22-120      | 13  | 30        |           |
| N-Nitrosodi-n-propylamine                     | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 14-198      | 2   | 30        |           |
| N-Nitrosodiphenylamine                        | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75   | 47-120      | 3   | 30        |           |
| Pentachlorophenol                             | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 80   | 41-120      | 1   | 30        |           |
| Phenanthrene                                  | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 87   | 65-120      | 3   | 30        |           |
| Phenol                                        | 5.54   | 1.0 | ug/l  | 20.0                                         |               | 28   | 17-120      | 5   | 30        |           |
| Pyrene                                        | 18.7   | 1.0 | ug/l  | 20.0                                         |               | 93   | 70-120      | 2   | 30        |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |             |     |           |           |
| 2,4,6-Tribromophenol                          | 33.8   |     | ug/l  | 40.0                                         |               | 85   | 25-120      |     |           |           |
| 2-Fluorobiphenyl                              | 16.5   |     | ug/l  | 20.0                                         |               | 82   | 22-120      |     |           |           |
| 2-Fluorophenol                                | 20.6   |     | ug/l  | 40.0                                         |               | 52   | 17-120      |     |           |           |
| Nitrobenzene-d5                               | 15.8   |     | ug/l  | 20.0                                         |               | 79   | 47-120      |     |           |           |
| Phenol-d5                                     | 12.4   |     | ug/l  | 40.0                                         |               | 31   | 12-120      |     |           |           |
| Terphenyl-d14                                 | 24.3   |     | ug/l  | 20.0                                         |               | 122  | 44-129      |     |           |           |
| <b>LCS Dup (W4F1235-BSD2)</b>                 |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |             |     |           |           |
| 1,2,4-Trichlorobenzene                        | 16.7   | 1.0 | ug/l  | 20.0                                         |               | 84   | 57-130      | 9   | 30        | QC-2      |
| 1,2-Dichlorobenzene                           | 15.8   | 1.0 | ug/l  | 20.0                                         |               | 79   | 57-120      | 11  | 30        | QC-2      |
| 1,3-Dichlorobenzene                           | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 77   | 55-120      | 9   | 30        | QC-2      |
| 1,4-Dichlorobenzene                           | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85   | 55-120      | 9   | 30        | QC-2      |
| 2,4,6-Trichlorophenol                         | 17.7   | 1.0 | ug/l  | 20.0                                         |               | 88   | 52-129      | 4   | 30        | QC-2      |
| 2,4-Dichlorophenol                            | 17.8   | 1.0 | ug/l  | 20.0                                         |               | 89   | 53-122      | 4   | 30        | QC-2      |
| 2,4-Dinitrophenol                             | 21.7   | 10  | ug/l  | 20.0                                         |               | 108  | 0.1-173     | 4   | 30        | QC-2      |
| 2,4-Dinitrotoluene                            | 16.3   | 1.0 | ug/l  | 20.0                                         |               | 82   | 48-127      | 0.7 | 30        | QC-2      |
| 2,6-Dinitrotoluene                            | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88   | 68-137      | 1   | 30        | QC-2      |
| 2-Chloronaphthalene                           | 17.1   | 1.0 | ug/l  | 20.0                                         |               | 86   | 65-120      | 6   | 30        | QC-2      |
| 2-Chlorophenol                                | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 36-120      | 6   | 30        | QC-2      |
| 2-Methyl-4,6-dinitrophenol                    | 19.4   | 5.0 | ug/l  | 20.0                                         |               | 97   | 53-130      | 3   | 30        | QC-2      |
| 2-Nitrophenol                                 | 19.1   | 1.0 | ug/l  | 20.0                                         |               | 95   | 45-167      | 4   | 30        | QC-2      |
| 4-Bromophenyl phenyl ether                    | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 65-120      | 1   | 30        | QC-2      |
| 4-Chloro-3-methylphenol                       | 15.7   | 1.0 | ug/l  | 20.0                                         |               | 79   | 41-128      | 8   | 30        | QC-2      |
| 4-Chlorophenyl phenyl ether                   | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83   | 38-145      | 3   | 30        | QC-2      |
| 4-Nitrophenol                                 | 5.78   | 5.0 | ug/l  | 20.0                                         |               | 29   | 13-129      | 5   | 30        | QC-2      |
| Acenaphthene                                  | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 60-132      | 5   | 30        | QC-2      |
| Acenaphthylene                                | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 54-126      | 3   | 30        | QC-2      |
| Anthracene                                    | 17.4   | 1.0 | ug/l  | 20.0                                         |               | 87   | 43-120      | 4   | 30        | QC-2      |
| Benzo (a) anthracene                          | 18.6   | 1.0 | ug/l  | 20.0                                         |               | 93   | 42-133      | 4   | 30        | QC-2      |

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Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD | Limit | Qualifier      |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-------|----------------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |       |                |
| <b>LCS Dup (W4F1235-BSD2)</b>                 |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |               |      |         |     |       |                |
| Benzo (a) pyrene                              | 19.9   | 1.0 | ug/l  | 20.0                                         |               | 100  | 32-148  | 6   | 30    | QC-2           |
| Benzo (b) fluoranthene                        | 19.3   | 1.0 | ug/l  | 20.0                                         |               | 96   | 42-140  | 4   | 30    | QC-2,<br>AN-IP |
| Benzo (g,h,i) perylene                        | 19.8   | 2.0 | ug/l  | 20.0                                         |               | 99   | 0.1-195 | 5   | 30    | QC-2           |
| Benzo (k) fluoranthene                        | 18.8   | 1.0 | ug/l  | 20.0                                         |               | 94   | 25-146  | 1   | 30    | QC-2,<br>AN-IP |
| Bis(2-chloroethoxy)methane                    | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 82   | 49-165  | 4   | 30    | QC-2           |
| Bis(2-chloroethyl)ether                       | 14.8   | 1.0 | ug/l  | 20.0                                         |               | 74   | 43-126  | 3   | 30    | QC-2           |
| Bis(2-chloroisopropyl)ether                   | 15.7   | 1.0 | ug/l  | 20.0                                         |               | 78   | 63-139  | 4   | 30    | QC-2           |
| Bis(2-ethylhexyl)phthalate                    | 21.9   | 5.0 | ug/l  | 20.0                                         |               | 110  | 29-137  | 2   | 30    | QC-2           |
| Butyl benzyl phthalate                        | 20.4   | 1.0 | ug/l  | 20.0                                         |               | 102  | 0.1-140 | 3   | 30    | QC-2           |
| Chrysene                                      | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 44-140  | 4   | 30    | QC-2           |
| Dibenzo (a,h) anthracene                      | 16.4   | 2.0 | ug/l  | 20.0                                         |               | 82   | 0.1-200 | 9   | 30    | QC-2           |
| Diethyl phthalate                             | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83   | 0.1-120 | 2   | 30    | QC-2           |
| Dimethyl phthalate                            | 17.1   | 1.0 | ug/l  | 20.0                                         |               | 85   | 0.1-120 | 3   | 30    | QC-2           |
| Di-n-butyl phthalate                          | 18.3   | 1.0 | ug/l  | 20.0                                         |               | 91   | 8-120   | 6   | 30    | QC-2           |
| Di-n-octyl phthalate                          | 20.5   | 1.0 | ug/l  | 20.0                                         |               | 103  | 19-132  | 3   | 30    | QC-2           |
| Fluoranthene                                  | 19.1   | 1.0 | ug/l  | 20.0                                         |               | 96   | 43-121  | 5   | 30    | QC-2           |
| Fluorene                                      | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 70-120  | 5   | 30    | QC-2           |
| Hexachlorobenzene                             | 17.7   | 1.0 | ug/l  | 20.0                                         |               | 89   | 8-142   | 5   | 30    | QC-2           |
| Hexachlorobutadiene                           | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83   | 38-120  | 10  | 30    | QC-2           |
| Hexachlorocyclopentadiene                     | 11.3   | 5.0 | ug/l  | 20.0                                         |               | 57   | 10-120  | 2   | 30    | QC-2           |
| Hexachloroethane                              | 17.8   | 1.0 | ug/l  | 20.0                                         |               | 89   | 55-120  | 11  | 30    | QC-2           |
| Indeno (1,2,3-cd) pyrene                      | 17.2   | 2.0 | ug/l  | 20.0                                         |               | 86   | 0.1-151 | 2   | 30    | QC-2           |
| Isophorone                                    | 13.9   | 1.0 | ug/l  | 20.0                                         |               | 69   | 47-180  | 4   | 30    | QC-2           |
| Naphthalene                                   | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 83   | 36-120  | 6   | 30    | QC-2           |
| Nitrobenzene                                  | 16.4   | 1.0 | ug/l  | 20.0                                         |               | 82   | 54-158  | 5   | 30    | QC-2           |
| N-Nitrosodimethylamine                        | 9.12   | 1.0 | ug/l  | 20.0                                         |               | 46   | 22-120  | 4   | 30    | QC-2           |
| N-Nitrosodi-n-propylamine                     | 16.3   | 1.0 | ug/l  | 20.0                                         |               | 81   | 14-198  | 2   | 30    | QC-2           |
| N-Nitrosodiphenylamine                        | 14.4   | 1.0 | ug/l  | 20.0                                         |               | 72   | 47-120  | 4   | 30    | QC-2           |
| Pentachlorophenol                             | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 41-120  | 0.9 | 30    | QC-2           |
| Phenanthrene                                  | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 88   | 65-120  | 1   | 30    | QC-2           |
| Phenol                                        | 5.69   | 1.0 | ug/l  | 20.0                                         |               | 28   | 17-120  | 10  | 30    | QC-2           |
| Pyrene                                        | 19.1   | 1.0 | ug/l  | 20.0                                         |               | 96   | 70-120  | 0.7 | 30    | QC-2           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |       |                |
| 2,4,6-Tribromophenol                          | 33.9   |     | ug/l  | 40.0                                         |               | 85   | 25-120  |     |       | QC-2           |
| 2-Fluorobiphenyl                              | 16.1   |     | ug/l  | 20.0                                         |               | 80   | 22-120  |     |       | QC-2           |
| 2-Fluorophenol                                | 17.9   |     | ug/l  | 40.0                                         |               | 45   | 17-120  |     |       | QC-2           |
| Nitrobenzene-d5                               | 16.5   |     | ug/l  | 20.0                                         |               | 83   | 47-120  |     |       | QC-2           |
| Phenol-d5                                     | 12.6   |     | ug/l  | 40.0                                         |               | 31   | 12-120  |     |       | QC-2           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level | Source Result                                | %REC Limits | RPD | RPD Limit | Qualifier   |
|-----------------------------------------------|--------|-----|-------|-------------|----------------------------------------------|-------------|-----|-----------|-------------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |             |                                              |             |     |           |             |
| <b>LCS Dup (W4F1235-BSD2)</b>                 |        |     |       |             | <b>Prepared: 06/17/24 Analyzed: 07/10/24</b> |             |     |           |             |
| Surrogate(s)                                  |        |     |       |             |                                              |             |     |           |             |
| Terphenyl-d14                                 | 23.5   |     | ug/l  | 20.0        |                                              | 117 44-129  |     |           | QC-2        |
| <b>LCS Dup (W4F1235-BSD3)</b>                 |        |     |       |             | <b>Prepared: 06/17/24 Analyzed: 07/25/24</b> |             |     |           |             |
| 1,2,4-Trichlorobenzene                        | 16.8   | 1.0 | ug/l  | 20.0        |                                              | 84 57-130   | 10  | 30        | QC-2        |
| 1,2-Dichlorobenzene                           | 15.6   | 1.0 | ug/l  | 20.0        |                                              | 78 57-120   | 9   | 30        | QC-2        |
| 1,3-Dichlorobenzene                           | 15.3   | 1.0 | ug/l  | 20.0        |                                              | 77 55-120   | 9   | 30        | QC-2        |
| 1,4-Dichlorobenzene                           | 16.8   | 1.0 | ug/l  | 20.0        |                                              | 84 55-120   | 9   | 30        | QC-2        |
| 2,4,6-Trichlorophenol                         | 17.6   | 1.0 | ug/l  | 20.0        |                                              | 88 52-129   | 7   | 30        | QC-2        |
| 2,4-Dichlorophenol                            | 17.7   | 1.0 | ug/l  | 20.0        |                                              | 89 53-122   | 6   | 30        | QC-2        |
| 2,4-Dimethylphenol                            | 5.28   | 1.0 | ug/l  | 20.0        |                                              | 26 42-120   | 155 | 30        | Q-02, QC-2  |
| 2,4-Dinitrophenol                             | 19.6   | 10  | ug/l  | 20.0        |                                              | 98 0.1-173  | 8   | 30        | QC-2        |
| 2,4-Dinitrotoluene                            | 17.8   | 1.0 | ug/l  | 20.0        |                                              | 89 48-127   | 8   | 30        | QC-2        |
| 2,6-Dinitrotoluene                            | 18.5   | 1.0 | ug/l  | 20.0        |                                              | 93 68-137   | 4   | 30        | QC-2        |
| 2-Chloronaphthalene                           | 16.9   | 1.0 | ug/l  | 20.0        |                                              | 84 65-120   | 10  | 30        | QC-2        |
| 2-Chlorophenol                                | 15.3   | 1.0 | ug/l  | 20.0        |                                              | 77 36-120   | 6   | 30        | QC-2        |
| 2-Methyl-4,6-dinitrophenol                    | 18.1   | 5.0 | ug/l  | 20.0        |                                              | 91 53-130   | 5   | 30        | QC-2        |
| 2-Nitrophenol                                 | 18.7   | 1.0 | ug/l  | 20.0        |                                              | 93 45-167   | 4   | 30        | QC-2        |
| 3,3'-Dichlorobenzidine                        | 4.36   | 5.0 | ug/l  | 20.0        |                                              | 22 8-213    | 44  | 30        | Q-12, QC-2  |
| 4-Bromophenyl phenyl ether                    | 17.3   | 1.0 | ug/l  | 20.0        |                                              | 87 65-120   | 6   | 30        | QC-2        |
| 4-Chloro-3-methylphenol                       | 15.8   | 1.0 | ug/l  | 20.0        |                                              | 79 41-128   | 26  | 30        | QC-2        |
| 4-Chlorophenyl phenyl ether                   | 16.7   | 1.0 | ug/l  | 20.0        |                                              | 84 38-145   | 7   | 30        | QC-2        |
| 4-Nitrophenol                                 | 6.32   | 5.0 | ug/l  | 20.0        |                                              | 32 13-129   | 13  | 30        | QC-2        |
| Acenaphthene                                  | 18.8   | 1.0 | ug/l  | 20.0        |                                              | 94 60-132   | 7   | 30        | QC-2        |
| Acenaphthylene                                | 18.0   | 1.0 | ug/l  | 20.0        |                                              | 90 54-126   | 3   | 30        | QC-2        |
| Anthracene                                    | 18.2   | 1.0 | ug/l  | 20.0        |                                              | 91 43-120   | 11  | 30        | QC-2        |
| Benzo (a) anthracene                          | 18.4   | 1.0 | ug/l  | 20.0        |                                              | 92 42-133   | 7   | 30        | QC-2        |
| Benzo (a) pyrene                              | 20.2   | 1.0 | ug/l  | 20.0        |                                              | 101 32-148  | 10  | 30        | QC-2        |
| Benzo (b) fluoranthene                        | 21.4   | 1.0 | ug/l  | 20.0        |                                              | 107 42-140  | 6   | 30        | QC-2, AN-IP |
| Benzo (g,h,i) perylene                        | 19.6   | 2.0 | ug/l  | 20.0        |                                              | 98 0.1-195  | 1   | 30        | QC-2        |
| Benzo (k) fluoranthene                        | 17.4   | 1.0 | ug/l  | 20.0        |                                              | 87 25-146   | 2   | 30        | QC-2, AN-IP |
| Bis(2-chloroethoxy)methane                    | 16.4   | 1.0 | ug/l  | 20.0        |                                              | 82 49-165   | 3   | 30        | QC-2        |
| Bis(2-chloroethyl)ether                       | 14.7   | 1.0 | ug/l  | 20.0        |                                              | 73 43-126   | 1   | 30        | QC-2        |
| Bis(2-chloroisopropyl)ether                   | 15.5   | 1.0 | ug/l  | 20.0        |                                              | 78 63-139   | 2   | 30        | QC-2        |
| Bis(2-ethylhexyl)phthalate                    | 23.0   | 5.0 | ug/l  | 20.0        |                                              | 115 29-137  | 7   | 30        | QC-2        |
| Butyl benzyl phthalate                        | 22.3   | 1.0 | ug/l  | 20.0        |                                              | 112 0.1-140 | 11  | 30        | QC-2        |
| Chrysene                                      | 20.4   | 1.0 | ug/l  | 20.0        |                                              | 102 44-140  | 6   | 30        | QC-2        |
| Dibenzo (a,h) anthracene                      | 16.3   | 2.0 | ug/l  | 20.0        |                                              | 81 0.1-200  | 7   | 30        | QC-2        |
| Diethyl phthalate                             | 17.3   | 1.0 | ug/l  | 20.0        |                                              | 87 0.1-120  | 6   | 30        | QC-2        |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4F1235 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |       |           |
| <b>LCS Dup (W4F1235-BSD3)</b>                 |        |     |       | <b>Prepared: 06/17/24 Analyzed: 07/25/24</b> |               |      |         |     |       |           |
| Dimethyl phthalate                            | 17.2   | 1.0 | ug/l  | 20.0                                         |               | 86   | 0.1-120 | 8   | 30    | QC-2      |
| Di-n-butyl phthalate                          | 18.6   | 1.0 | ug/l  | 20.0                                         |               | 93   | 8-120   | 6   | 30    | QC-2      |
| Di-n-octyl phthalate                          | 21.1   | 1.0 | ug/l  | 20.0                                         |               | 105  | 19-132  | 1   | 30    | QC-2      |
| Fluoranthene                                  | 19.3   | 1.0 | ug/l  | 20.0                                         |               | 97   | 43-121  | 6   | 30    | QC-2      |
| Fluorene                                      | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 91   | 70-120  | 8   | 30    | QC-2      |
| Hexachlorobenzene                             | 17.8   | 1.0 | ug/l  | 20.0                                         |               | 89   | 8-142   | 7   | 30    | QC-2      |
| Hexachlorobutadiene                           | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 83   | 38-120  | 10  | 30    | QC-2      |
| Hexachlorocyclopentadiene                     | 3.66   | 5.0 | ug/l  | 20.0                                         |               | 18   | 10-120  | 24  | 30    | QC-2      |
| Hexachloroethane                              | 16.3   | 1.0 | ug/l  | 20.0                                         |               | 81   | 55-120  | 9   | 30    | QC-2      |
| Indeno (1,2,3-cd) pyrene                      | 17.0   | 2.0 | ug/l  | 20.0                                         |               | 85   | 0.1-151 | 1   | 30    | QC-2      |
| Isophorone                                    | 13.6   | 1.0 | ug/l  | 20.0                                         |               | 68   | 47-180  | 4   | 30    | QC-2      |
| Naphthalene                                   | 16.4   | 1.0 | ug/l  | 20.0                                         |               | 82   | 36-120  | 9   | 30    | QC-2      |
| Nitrobenzene                                  | 15.7   | 1.0 | ug/l  | 20.0                                         |               | 78   | 54-158  | 3   | 30    | QC-2      |
| N-Nitrosodimethylamine                        | 9.50   | 1.0 | ug/l  | 20.0                                         |               | 47   | 22-120  | 4   | 30    | QC-2      |
| N-Nitrosodi-n-propylamine                     | 15.8   | 1.0 | ug/l  | 20.0                                         |               | 79   | 14-198  | 2   | 30    | QC-2      |
| N-Nitrosodiphenylamine                        | 14.7   | 1.0 | ug/l  | 20.0                                         |               | 74   | 47-120  | 11  | 30    | QC-2      |
| Pentachlorophenol                             | 15.8   | 1.0 | ug/l  | 20.0                                         |               | 79   | 41-120  | 8   | 30    | QC-2      |
| Phenanthrene                                  | 19.1   | 1.0 | ug/l  | 20.0                                         |               | 96   | 65-120  | 10  | 30    | QC-2      |
| Phenol                                        | 5.66   | 1.0 | ug/l  | 20.0                                         |               | 28   | 17-120  | 12  | 30    | QC-2      |
| Pyrene                                        | 18.9   | 1.0 | ug/l  | 20.0                                         |               | 95   | 70-120  | 7   | 30    | QC-2      |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |       |           |
| 2,4,6-Tribromophenol                          | 33.4   |     | ug/l  | 40.0                                         |               | 83   | 25-120  |     |       | QC-2      |
| 2-Fluorobiphenyl                              | 16.4   |     | ug/l  | 20.0                                         |               | 82   | 22-120  |     |       | QC-2      |
| 2-Fluorophenol                                | 17.1   |     | ug/l  | 40.0                                         |               | 43   | 17-120  |     |       | QC-2      |
| Nitrobenzene-d5                               | 16.5   |     | ug/l  | 20.0                                         |               | 82   | 47-120  |     |       | QC-2      |
| Phenol-d5                                     | 12.5   |     | ug/l  | 40.0                                         |               | 31   | 12-120  |     |       | QC-2      |
| Terphenyl-d14                                 | 24.6   |     | ug/l  | 20.0                                         |               | 123  | 44-129  |     |       | QC-2      |

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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|---------|--------|-----|-------|-------------|---------------|------|-------|-----|-------|-----------|
|---------|--------|-----|-------|-------------|---------------|------|-------|-----|-------|-----------|

#### Batch: W4F1121 - EPA 608.3

##### Blank (W4F1121-BLK1)

Prepared: 06/14/24 Analyzed: 07/02/24

|                         |        |        |      |       |  |     |        |  |  |  |
|-------------------------|--------|--------|------|-------|--|-----|--------|--|--|--|
| 4,4'-DDD                | ND     | 0.050  | ug/l |       |  |     |        |  |  |  |
| 4,4'-DDE                | ND     | 0.050  | ug/l |       |  |     |        |  |  |  |
| 4,4'-DDT                | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Aldrin                  | ND     | 0.0050 | ug/l |       |  |     |        |  |  |  |
| alpha-BHC               | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Aroclor 1016            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Aroclor 1221            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Aroclor 1232            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Aroclor 1242            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Aroclor 1248            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Aroclor 1254            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Aroclor 1260            | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| beta-BHC                | ND     | 0.0050 | ug/l |       |  |     |        |  |  |  |
| Chlordane (tech)        | ND     | 0.10   | ug/l |       |  |     |        |  |  |  |
| delta-BHC               | ND     | 0.0050 | ug/l |       |  |     |        |  |  |  |
| Dieldrin                | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Endosulfan I            | ND     | 0.020  | ug/l |       |  |     |        |  |  |  |
| Endosulfan II           | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Endosulfan sulfate      | ND     | 0.050  | ug/l |       |  |     |        |  |  |  |
| Endrin                  | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Endrin aldehyde         | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| gamma-BHC (Lindane)     | ND     | 0.020  | ug/l |       |  |     |        |  |  |  |
| Heptachlor              | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Heptachlor epoxide      | ND     | 0.010  | ug/l |       |  |     |        |  |  |  |
| Toxaphene               | ND     | 0.50   | ug/l |       |  |     |        |  |  |  |
| Surrogate(s)            |        |        |      |       |  |     |        |  |  |  |
| Decachlorobiphenyl      | 0.110  |        | ug/l | 0.100 |  | 110 | 33-133 |  |  |  |
| Tetrachloro-meta-xylene | 0.0735 |        | ug/l | 0.100 |  | 73  | 32-130 |  |  |  |

##### Blank (W4F1121-BLK2)

Prepared: 06/14/24 Analyzed: 07/11/24

|              |    |        |      |  |  |  |  |  |  |      |
|--------------|----|--------|------|--|--|--|--|--|--|------|
| 4,4'-DDD     | ND | 0.050  | ug/l |  |  |  |  |  |  | QC-2 |
| 4,4'-DDE     | ND | 0.050  | ug/l |  |  |  |  |  |  | QC-2 |
| 4,4'-DDT     | ND | 0.010  | ug/l |  |  |  |  |  |  | QC-2 |
| Aldrin       | ND | 0.0050 | ug/l |  |  |  |  |  |  | QC-2 |
| alpha-BHC    | ND | 0.010  | ug/l |  |  |  |  |  |  | QC-2 |
| Aroclor 1016 | ND | 0.50   | ug/l |  |  |  |  |  |  | QC-2 |
| Aroclor 1221 | ND | 0.50   | ug/l |  |  |  |  |  |  | QC-2 |
| Aroclor 1232 | ND | 0.50   | ug/l |  |  |  |  |  |  | QC-2 |
| Aroclor 1242 | ND | 0.50   | ug/l |  |  |  |  |  |  | QC-2 |
| Aroclor 1248 | ND | 0.50   | ug/l |  |  |  |  |  |  | QC-2 |

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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

| Analyte                                       | Result | MRL    | Units | Spike Level                                  | Source Result | %REC Limits | RPD    | RPD Limit | Qualifier |
|-----------------------------------------------|--------|--------|-------|----------------------------------------------|---------------|-------------|--------|-----------|-----------|
| <b>Batch: W4F1121 - EPA 608.3 (Continued)</b> |        |        |       |                                              |               |             |        |           |           |
| <b>Blank (W4F1121-BLK2)</b>                   |        |        |       | <b>Prepared: 06/14/24 Analyzed: 07/11/24</b> |               |             |        |           |           |
| Aroclor 1254                                  | ND     | 0.50   | ug/l  |                                              |               |             |        |           | QC-2      |
| Aroclor 1260                                  | ND     | 0.50   | ug/l  |                                              |               |             |        |           | QC-2      |
| beta-BHC                                      | ND     | 0.0050 | ug/l  |                                              |               |             |        |           | QC-2      |
| Chlordane (tech)                              | ND     | 0.10   | ug/l  |                                              |               |             |        |           | QC-2      |
| delta-BHC                                     | ND     | 0.0050 | ug/l  |                                              |               |             |        |           | QC-2      |
| Dieldrin                                      | ND     | 0.010  | ug/l  |                                              |               |             |        |           | QC-2      |
| Endosulfan I                                  | ND     | 0.020  | ug/l  |                                              |               |             |        |           | QC-2      |
| Endosulfan II                                 | ND     | 0.010  | ug/l  |                                              |               |             |        |           | QC-2      |
| Endosulfan sulfate                            | ND     | 0.050  | ug/l  |                                              |               |             |        |           | QC-2      |
| Endrin                                        | ND     | 0.010  | ug/l  |                                              |               |             |        |           | QC-2      |
| Endrin aldehyde                               | ND     | 0.010  | ug/l  |                                              |               |             |        |           | QC-2      |
| gamma-BHC (Lindane)                           | ND     | 0.020  | ug/l  |                                              |               |             |        |           | QC-2      |
| Heptachlor                                    | ND     | 0.010  | ug/l  |                                              |               |             |        |           | QC-2      |
| Heptachlor epoxide                            | ND     | 0.010  | ug/l  |                                              |               |             |        |           | QC-2      |
| Toxaphene                                     | ND     | 0.50   | ug/l  |                                              |               |             |        |           | QC-2      |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |        |           |           |
| Decachlorobiphenyl                            | 0.125  |        | ug/l  | 0.100                                        |               | 125         | 33-133 |           |           |
| Tetrachloro-meta-xylene                       | 0.0765 |        | ug/l  | 0.100                                        |               | 77          | 32-130 |           |           |
| <b>LCS (W4F1121-BS1)</b>                      |        |        |       | <b>Prepared: 06/14/24 Analyzed: 07/02/24</b> |               |             |        |           |           |
| 4,4'-DDD                                      | 0.0767 | 0.050  | ug/l  | 0.100                                        |               | 77          | 48-130 |           |           |
| 4,4'-DDE                                      | 0.0697 | 0.050  | ug/l  | 0.100                                        |               | 70          | 54-130 |           |           |
| 4,4'-DDT                                      | 0.0793 | 0.010  | ug/l  | 0.100                                        |               | 79          | 46-137 |           |           |
| Aldrin                                        | 0.0587 | 0.0050 | ug/l  | 0.100                                        |               | 59          | 54-130 |           |           |
| alpha-BHC                                     | 0.0691 | 0.010  | ug/l  | 0.100                                        |               | 69          | 49-130 |           |           |
| beta-BHC                                      | 0.0732 | 0.0050 | ug/l  | 0.100                                        |               | 73          | 39-130 |           |           |
| delta-BHC                                     | 0.0758 | 0.0050 | ug/l  | 0.100                                        |               | 76          | 51-130 |           |           |
| Dieldrin                                      | 0.0695 | 0.010  | ug/l  | 0.100                                        |               | 70          | 58-130 |           |           |
| Endosulfan I                                  | 0.0644 | 0.020  | ug/l  | 0.100                                        |               | 64          | 57-141 |           |           |
| Endosulfan II                                 | 0.0715 | 0.010  | ug/l  | 0.100                                        |               | 72          | 22-171 |           |           |
| Endosulfan sulfate                            | 0.0802 | 0.050  | ug/l  | 0.100                                        |               | 80          | 38-132 |           |           |
| Endrin                                        | 0.0812 | 0.010  | ug/l  | 0.100                                        |               | 81          | 51-130 |           |           |
| Endrin aldehyde                               | 0.0674 | 0.010  | ug/l  | 0.100                                        |               | 67          | 18-130 |           |           |
| gamma-BHC (Lindane)                           | 0.0721 | 0.020  | ug/l  | 0.100                                        |               | 72          | 43-130 |           |           |
| Heptachlor                                    | 0.0676 | 0.010  | ug/l  | 0.100                                        |               | 68          | 43-130 |           |           |
| Heptachlor epoxide                            | 0.0736 | 0.010  | ug/l  | 0.100                                        |               | 74          | 57-132 |           |           |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |        |           |           |
| Decachlorobiphenyl                            | 0.0929 |        | ug/l  | 0.100                                        |               | 93          | 33-133 |           |           |
| Tetrachloro-meta-xylene                       | 0.0505 |        | ug/l  | 0.100                                        |               | 51          | 32-130 |           |           |
| <b>LCS (W4F1121-BS2)</b>                      |        |        |       | <b>Prepared: 06/14/24 Analyzed: 07/11/24</b> |               |             |        |           |           |



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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

| Analyte                                       | Result | MRL    | Units | Spike Level                                  | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|--------|-------|----------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4F1121 - EPA 608.3 (Continued)</b> |        |        |       |                                              |               |             |     |           |           |
| <b>LCS (W4F1121-BS2)</b>                      |        |        |       | <b>Prepared: 06/14/24 Analyzed: 07/11/24</b> |               |             |     |           |           |
| 4,4'-DDD                                      | 0.0922 | 0.050  | ug/l  | 0.100                                        |               | 92 48-130   |     |           | QC-2      |
| 4,4'-DDE                                      | 0.0834 | 0.050  | ug/l  | 0.100                                        |               | 83 54-130   |     |           | QC-2      |
| 4,4'-DDT                                      | 0.0968 | 0.010  | ug/l  | 0.100                                        |               | 97 46-137   |     |           | QC-2      |
| Aldrin                                        | 0.0693 | 0.0050 | ug/l  | 0.100                                        |               | 69 54-130   |     |           | QC-2      |
| alpha-BHC                                     | 0.0810 | 0.010  | ug/l  | 0.100                                        |               | 81 49-130   |     |           | QC-2      |
| beta-BHC                                      | 0.0861 | 0.0050 | ug/l  | 0.100                                        |               | 86 39-130   |     |           | QC-2      |
| delta-BHC                                     | 0.0902 | 0.0050 | ug/l  | 0.100                                        |               | 90 51-130   |     |           | QC-2      |
| Dieldrin                                      | 0.0823 | 0.010  | ug/l  | 0.100                                        |               | 82 58-130   |     |           | QC-2      |
| Endosulfan I                                  | 0.0761 | 0.020  | ug/l  | 0.100                                        |               | 76 57-141   |     |           | QC-2      |
| Endosulfan II                                 | 0.0845 | 0.010  | ug/l  | 0.100                                        |               | 84 22-171   |     |           | QC-2      |
| Endosulfan sulfate                            | 0.0919 | 0.050  | ug/l  | 0.100                                        |               | 92 38-132   |     |           | QC-2      |
| Endrin                                        | 0.0860 | 0.010  | ug/l  | 0.100                                        |               | 86 51-130   |     |           | QC-2      |
| Endrin aldehyde                               | 0.0861 | 0.010  | ug/l  | 0.100                                        |               | 86 18-130   |     |           | QC-2      |
| gamma-BHC (Lindane)                           | 0.0846 | 0.020  | ug/l  | 0.100                                        |               | 85 43-130   |     |           | QC-2      |
| Heptachlor                                    | 0.0801 | 0.010  | ug/l  | 0.100                                        |               | 80 43-130   |     |           | QC-2      |
| Heptachlor epoxide                            | 0.0868 | 0.010  | ug/l  | 0.100                                        |               | 87 57-132   |     |           | QC-2      |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |     |           |           |
| Decachlorobiphenyl                            | 0.108  |        | ug/l  | 0.100                                        |               | 108 33-133  |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0593 |        | ug/l  | 0.100                                        |               | 59 32-130   |     |           |           |
| <b>LCS Dup (W4F1121-BSD1)</b>                 |        |        |       | <b>Prepared: 06/14/24 Analyzed: 07/02/24</b> |               |             |     |           |           |
| 4,4'-DDD                                      | 0.0957 | 0.050  | ug/l  | 0.100                                        |               | 96 48-130   | 22  | 30        |           |
| 4,4'-DDE                                      | 0.0850 | 0.050  | ug/l  | 0.100                                        |               | 85 54-130   | 20  | 30        |           |
| 4,4'-DDT                                      | 0.0981 | 0.010  | ug/l  | 0.100                                        |               | 98 46-137   | 21  | 30        |           |
| Aldrin                                        | 0.0741 | 0.0050 | ug/l  | 0.100                                        |               | 74 54-130   | 23  | 30        |           |
| alpha-BHC                                     | 0.0872 | 0.010  | ug/l  | 0.100                                        |               | 87 49-130   | 23  | 30        |           |
| beta-BHC                                      | 0.0905 | 0.0050 | ug/l  | 0.100                                        |               | 91 39-130   | 21  | 30        |           |
| delta-BHC                                     | 0.0864 | 0.0050 | ug/l  | 0.100                                        |               | 86 51-130   | 13  | 30        |           |
| Dieldrin                                      | 0.0875 | 0.010  | ug/l  | 0.100                                        |               | 88 58-130   | 23  | 30        |           |
| Endosulfan I                                  | 0.0806 | 0.020  | ug/l  | 0.100                                        |               | 81 57-141   | 22  | 30        |           |
| Endosulfan II                                 | 0.0886 | 0.010  | ug/l  | 0.100                                        |               | 89 22-171   | 21  | 30        |           |
| Endosulfan sulfate                            | 0.0923 | 0.050  | ug/l  | 0.100                                        |               | 92 38-132   | 14  | 30        |           |
| Endrin                                        | 0.103  | 0.010  | ug/l  | 0.100                                        |               | 103 51-130  | 23  | 30        |           |
| Endrin aldehyde                               | 0.0815 | 0.010  | ug/l  | 0.100                                        |               | 81 18-130   | 19  | 30        |           |
| gamma-BHC (Lindane)                           | 0.0886 | 0.020  | ug/l  | 0.100                                        |               | 89 43-130   | 21  | 30        |           |
| Heptachlor                                    | 0.0862 | 0.010  | ug/l  | 0.100                                        |               | 86 43-130   | 24  | 30        |           |
| Heptachlor epoxide                            | 0.0928 | 0.010  | ug/l  | 0.100                                        |               | 93 57-132   | 23  | 30        |           |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |     |           |           |
| Decachlorobiphenyl                            | 0.104  |        | ug/l  | 0.100                                        |               | 104 33-133  |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0711 |        | ug/l  | 0.100                                        |               | 71 32-130   |     |           |           |



Encina Wastewater Authority  
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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

| Analyte                                       | Result | MRL    | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|--------|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4F1121 - EPA 608.3 (Continued)</b> |        |        |       |                                              |               |      |        |     |           |           |
| <b>LCS Dup (W4F1121-BS2)</b>                  |        |        |       | <b>Prepared: 06/14/24 Analyzed: 07/11/24</b> |               |      |        |     |           |           |
| 4,4'-DDD                                      | 0.103  | 0.050  | ug/l  | 0.100                                        |               | 103  | 48-130 | 11  | 30        | QC-2      |
| 4,4'-DDE                                      | 0.0899 | 0.050  | ug/l  | 0.100                                        |               | 90   | 54-130 | 8   | 30        | QC-2      |
| 4,4'-DDT                                      | 0.108  | 0.010  | ug/l  | 0.100                                        |               | 108  | 46-137 | 11  | 30        | QC-2      |
| Aldrin                                        | 0.0785 | 0.0050 | ug/l  | 0.100                                        |               | 78   | 54-130 | 12  | 30        | QC-2      |
| alpha-BHC                                     | 0.0923 | 0.010  | ug/l  | 0.100                                        |               | 92   | 49-130 | 13  | 30        | QC-2      |
| beta-BHC                                      | 0.0953 | 0.0050 | ug/l  | 0.100                                        |               | 95   | 39-130 | 10  | 30        | QC-2      |
| delta-BHC                                     | 0.0924 | 0.0050 | ug/l  | 0.100                                        |               | 92   | 51-130 | 2   | 30        | QC-2      |
| Dieldrin                                      | 0.0933 | 0.010  | ug/l  | 0.100                                        |               | 93   | 58-130 | 12  | 30        | QC-2      |
| Endosulfan I                                  | 0.0856 | 0.020  | ug/l  | 0.100                                        |               | 86   | 57-141 | 12  | 30        | QC-2      |
| Endosulfan II                                 | 0.0944 | 0.010  | ug/l  | 0.100                                        |               | 94   | 22-171 | 11  | 30        | QC-2      |
| Endosulfan sulfate                            | 0.0978 | 0.050  | ug/l  | 0.100                                        |               | 98   | 38-132 | 6   | 30        | QC-2      |
| Endrin                                        | 0.0964 | 0.010  | ug/l  | 0.100                                        |               | 96   | 51-130 | 11  | 30        | QC-2      |
| Endrin aldehyde                               | 0.0957 | 0.010  | ug/l  | 0.100                                        |               | 96   | 18-130 | 11  | 30        | QC-2      |
| gamma-BHC (Lindane)                           | 0.0938 | 0.020  | ug/l  | 0.100                                        |               | 94   | 43-130 | 10  | 30        | QC-2      |
| Heptachlor                                    | 0.0916 | 0.010  | ug/l  | 0.100                                        |               | 92   | 43-130 | 13  | 30        | QC-2      |
| Heptachlor epoxide                            | 0.0985 | 0.010  | ug/l  | 0.100                                        |               | 98   | 57-132 | 13  | 30        | QC-2      |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |      |        |     |           |           |
| Decachlorobiphenyl                            | 0.119  |        | ug/l  | 0.100                                        |               | 119  | 33-133 |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0746 |        | ug/l  | 0.100                                        |               | 75   | 32-130 |     |           |           |

## Quality Control Results

(Continued)

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| Analyte                                | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|----------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4F1458 - EPA 335.4</b>      |        |     |       |                                              |               |      |        |     |           |           |
| <b>Blank (W4F1458-BLK1)</b>            |        |     |       | <b>Prepared: 06/18/24 Analyzed: 06/19/24</b> |               |      |        |     |           |           |
| Cyanide, Total                         | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| <b>LCS (W4F1458-BS1)</b>               |        |     |       | <b>Prepared: 06/18/24 Analyzed: 06/19/24</b> |               |      |        |     |           |           |
| Cyanide, Total                         | 105    | 5.0 | ug/l  | 100                                          |               | 105  | 90-110 |     |           |           |
| <b>Matrix Spike (W4F1458-MS1)</b>      |        |     |       | <b>Prepared: 06/18/24 Analyzed: 06/19/24</b> |               |      |        |     |           |           |
| Cyanide, Total                         | 193    | 5.0 | ug/l  | 200                                          | ND            | 96   | 90-110 |     |           |           |
| <b>Matrix Spike Dup (W4F1458-MSD1)</b> |        |     |       | <b>Prepared: 06/18/24 Analyzed: 06/19/24</b> |               |      |        |     |           |           |
| Cyanide, Total                         | 190    | 5.0 | ug/l  | 200                                          | ND            | 95   | 90-110 | 2   | 20        |           |

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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

| Analyte                                | Result | MRL    | Units | Spike Level                                                     | Source Result | %REC Limits | RPD  | RPD Limit | Qualifier |
|----------------------------------------|--------|--------|-------|-----------------------------------------------------------------|---------------|-------------|------|-----------|-----------|
| <b>Batch: W4F1180 - EPA 200.7</b>      |        |        |       |                                                                 |               |             |      |           |           |
| <b>Blank (W4F1180-BLK1)</b>            |        |        |       | <b>Prepared: 06/14/24 Analyzed: 06/18/24</b>                    |               |             |      |           |           |
| Aluminum, Total                        | ND     | 0.050  | mg/l  |                                                                 |               |             |      |           |           |
| Barium, Total                          | ND     | 0.0020 | mg/l  |                                                                 |               |             |      |           |           |
| <b>LCS (W4F1180-BS1)</b>               |        |        |       | <b>Prepared: 06/14/24 Analyzed: 06/18/24</b>                    |               |             |      |           |           |
| Aluminum, Total                        | 0.224  | 0.050  | mg/l  | 0.200                                                           |               | 112 85-115  |      |           |           |
| Barium, Total                          | 0.206  | 0.0020 | mg/l  | 0.200                                                           |               | 103 85-115  |      |           |           |
| <b>Matrix Spike (W4F1180-MS1)</b>      |        |        |       | <b>Source: 4F12123-03 Prepared: 06/14/24 Analyzed: 06/18/24</b> |               |             |      |           |           |
| Aluminum, Total                        | 0.286  | 0.050  | mg/l  | 0.200                                                           | 0.0555        | 115 70-130  |      |           |           |
| Barium, Total                          | 0.509  | 0.0020 | mg/l  | 0.200                                                           | 0.293         | 108 70-130  |      |           |           |
| <b>Matrix Spike Dup (W4F1180-MSD1)</b> |        |        |       | <b>Source: 4F12123-03 Prepared: 06/14/24 Analyzed: 06/18/24</b> |               |             |      |           |           |
| Aluminum, Total                        | 0.287  | 0.050  | mg/l  | 0.200                                                           | 0.0555        | 116 70-130  | 0.3  | 30        |           |
| Barium, Total                          | 0.509  | 0.0020 | mg/l  | 0.200                                                           | 0.293         | 108 70-130  | 0.07 | 30        |           |

### Batch: W4F1492 - EPA 245.1

|                                        |       |       |      |                                                                 |    |            |     |    |  |
|----------------------------------------|-------|-------|------|-----------------------------------------------------------------|----|------------|-----|----|--|
| <b>Blank (W4F1492-BLK1)</b>            |       |       |      | <b>Prepared: 06/19/24 Analyzed: 06/21/24</b>                    |    |            |     |    |  |
| Mercury, Total                         | ND    | 0.050 | ug/l |                                                                 |    |            |     |    |  |
| <b>LCS (W4F1492-BS1)</b>               |       |       |      | <b>Prepared: 06/19/24 Analyzed: 06/21/24</b>                    |    |            |     |    |  |
| Mercury, Total                         | 1.02  | 0.050 | ug/l | 1.00                                                            |    | 102 85-115 |     |    |  |
| <b>Matrix Spike (W4F1492-MS1)</b>      |       |       |      | <b>Source: 4E17015-04 Prepared: 06/19/24 Analyzed: 06/21/24</b> |    |            |     |    |  |
| Mercury, Total                         | 1.05  | 0.050 | ug/l | 1.00                                                            | ND | 105 70-130 |     |    |  |
| <b>Matrix Spike (W4F1492-MS2)</b>      |       |       |      | <b>Source: 4F13057-04 Prepared: 06/19/24 Analyzed: 06/21/24</b> |    |            |     |    |  |
| Mercury, Total                         | 0.941 | 0.050 | ug/l | 1.00                                                            | ND | 94 70-130  |     |    |  |
| <b>Matrix Spike Dup (W4F1492-MSD1)</b> |       |       |      | <b>Source: 4E17015-04 Prepared: 06/19/24 Analyzed: 06/21/24</b> |    |            |     |    |  |
| Mercury, Total                         | 1.05  | 0.050 | ug/l | 1.00                                                            | ND | 105 70-130 | 0.5 | 20 |  |
| <b>Matrix Spike Dup (W4F1492-MSD2)</b> |       |       |      | <b>Source: 4F13057-04 Prepared: 06/19/24 Analyzed: 06/21/24</b> |    |            |     |    |  |
| Mercury, Total                         | 0.991 | 0.050 | ug/l | 1.00                                                            | ND | 99 70-130  | 5   | 20 |  |

## Quality Control Results

(Continued)

### Perchlorate by EPA 314.0

| Analyte                                | Result | MRL | Units | Spike Level                                                 | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|----------------------------------------|--------|-----|-------|-------------------------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4G0170 - EPA 314.0</b>      |        |     |       |                                                             |               |             |     |           |           |
| <b>Blank (W4G0170-BLK1)</b>            |        |     |       | <b>Prepared &amp; Analyzed: 07/02/24</b>                    |               |             |     |           |           |
| Perchlorate                            | ND     | 1.0 | ug/l  |                                                             |               |             |     |           |           |
| <b>LCS (W4G0170-BS1)</b>               |        |     |       | <b>Prepared &amp; Analyzed: 07/02/24</b>                    |               |             |     |           |           |
| Perchlorate                            | 9.93   | 1.0 | ug/l  | 10.0                                                        |               | 99 85-115   |     |           |           |
| <b>Matrix Spike (W4G0170-MS1)</b>      |        |     |       | <b>Source: 4E03027-04 Prepared &amp; Analyzed: 07/02/24</b> |               |             |     |           |           |
| Perchlorate                            | 9.53   | 1.0 | ug/l  | 10.0                                                        | ND            | 95 80-120   |     |           |           |
| <b>Matrix Spike Dup (W4G0170-MSD1)</b> |        |     |       | <b>Source: 4E03027-04 Prepared &amp; Analyzed: 07/02/24</b> |               |             |     |           |           |
| Perchlorate                            | 9.43   | 1.0 | ug/l  | 10.0                                                        | ND            | 94 80-120   | 1   | 15        |           |

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS

| Analyte                            | Result | MRL | Units | Spike Level                              | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|------------------------------------|--------|-----|-------|------------------------------------------|---------------|------|-------|-----|-------|-----------|
| <b>Batch: W4F1088 - EPA 624.1</b>  |        |     |       |                                          |               |      |       |     |       |           |
| <b>Blank (W4F1088-BLK1)</b>        |        |     |       | <b>Prepared &amp; Analyzed: 06/13/24</b> |               |      |       |     |       |           |
| 1,1,1-Trichloroethane              | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1,2,2-Tetrachloroethane          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1,2-Trichloroethane              | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1-Dichloroethane                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1-Dichloroethene                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,2-Dichloroethane                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,2-Dichloropropane                | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Butanone                         | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Chloroethyl vinyl ether          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Hexanone                         | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| 4-Methyl-2-pentanone               | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acetone                            | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acrolein                           | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acrylonitrile                      | ND     | 2.0 | ug/l  |                                          |               |      |       |     |       |           |
| Benzene                            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromodichloromethane               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromoform                          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromomethane                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Carbon Disulfide                   | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Carbon tetrachloride               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chlorobenzene                      | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloroethane                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloroform                         | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloromethane                      | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| cis-1,3-Dichloropropene            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Dibromochloromethane               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Dichlorodifluoromethane (Freon 12) | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Ethylbenzene                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| m-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Methylene chloride                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| o-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| p-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Tetrachloroethene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Toluene                            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| trans-1,2-Dichloroethene           | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| trans-1,3-Dichloropropene          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Trichloroethene                    | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Trichlorofluoromethane             | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4F1088 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |      |         |     |       |           |
| <b>Blank (W4F1088-BLK1)</b>                   |        |     |       | <b>Prepared &amp; Analyzed: 06/13/24</b> |               |      |         |     |       |           |
| Vinyl chloride                                | ND     | 1.0 | ug/l  |                                          |               |      |         |     |       |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |      |         |     |       |           |
| 1,2-Dichloroethane-d4                         | 54.2   |     | ug/l  | 50.0                                     |               | 108  | 82-125  |     |       |           |
| 4-Bromofluorobenzene                          | 48.8   |     | ug/l  | 50.0                                     |               | 98   | 88-108  |     |       |           |
| Toluene-d8                                    | 54.4   |     | ug/l  | 50.0                                     |               | 109  | 92-112  |     |       |           |
| <b>LCS (W4F1088-BS1)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 06/13/24</b> |               |      |         |     |       |           |
| 1,1,1-Trichloroethane                         | 23.2   | 1.0 | ug/l  | 20.0                                     |               | 116  | 52-162  |     |       |           |
| 1,1,2,2-Tetrachloroethane                     | 19.1   | 1.0 | ug/l  | 20.0                                     |               | 95   | 46-157  |     |       |           |
| 1,1,2-Trichloroethane                         | 23.4   | 1.0 | ug/l  | 20.0                                     |               | 117  | 52-150  |     |       |           |
| 1,1-Dichloroethane                            | 23.1   | 1.0 | ug/l  | 20.0                                     |               | 115  | 59-155  |     |       |           |
| 1,1-Dichloroethene                            | 21.9   | 1.0 | ug/l  | 20.0                                     |               | 109  | 0.1-234 |     |       |           |
| 1,2-Dichloroethane                            | 21.7   | 1.0 | ug/l  | 20.0                                     |               | 108  | 49-155  |     |       |           |
| 1,2-Dichloropropane                           | 23.4   | 1.0 | ug/l  | 20.0                                     |               | 117  | 0.1-210 |     |       |           |
| 2-Butanone                                    | 24.7   | 5.0 | ug/l  | 20.0                                     |               | 123  | 67-136  |     |       |           |
| 2-Chloroethyl vinyl ether                     | 19.7   | 1.0 | ug/l  | 20.0                                     |               | 98   | 0.1-305 |     |       |           |
| 2-Hexanone                                    | 21.8   | 5.0 | ug/l  | 20.0                                     |               | 109  | 76-133  |     |       |           |
| 4-Methyl-2-pentanone                          | 22.5   | 5.0 | ug/l  | 20.0                                     |               | 113  | 74-132  |     |       |           |
| Acetone                                       | 213    | 5.0 | ug/l  | 200                                      |               | 106  | 60-147  |     |       |           |
| Acrolein                                      | 22.5   | 5.0 | ug/l  | 20.0                                     |               | 113  | 49-152  |     |       |           |
| Acrylonitrile                                 | 25.3   | 2.0 | ug/l  | 20.0                                     |               | 127  | 74-127  |     |       |           |
| Benzene                                       | 22.8   | 1.0 | ug/l  | 20.0                                     |               | 114  | 37-151  |     |       |           |
| Bromodichloromethane                          | 23.1   | 1.0 | ug/l  | 20.0                                     |               | 116  | 35-155  |     |       |           |
| Bromoform                                     | 20.6   | 1.0 | ug/l  | 20.0                                     |               | 103  | 45-169  |     |       |           |
| Bromomethane                                  | 17.5   | 1.0 | ug/l  | 20.0                                     |               | 88   | 0.1-242 |     |       |           |
| Carbon Disulfide                              | 21.5   | 1.0 | ug/l  | 20.0                                     |               | 108  | 79-118  |     |       |           |
| Carbon tetrachloride                          | 22.7   | 1.0 | ug/l  | 20.0                                     |               | 113  | 70-140  |     |       |           |
| Chlorobenzene                                 | 19.5   | 1.0 | ug/l  | 20.0                                     |               | 98   | 37-160  |     |       |           |
| Chloroethane                                  | 21.1   | 1.0 | ug/l  | 20.0                                     |               | 106  | 14-230  |     |       |           |
| Chloroform                                    | 23.1   | 1.0 | ug/l  | 20.0                                     |               | 115  | 51-138  |     |       |           |
| Chloromethane                                 | 22.5   | 1.0 | ug/l  | 20.0                                     |               | 113  | 0.1-273 |     |       |           |
| cis-1,2-Dichloroethene                        | 24.1   | 1.0 | ug/l  | 20.0                                     |               | 120  | 85-121  |     |       |           |
| cis-1,3-Dichloropropene                       | 23.7   | 1.0 | ug/l  | 20.0                                     |               | 119  | 0.1-227 |     |       |           |
| Dibromochloromethane                          | 23.1   | 1.0 | ug/l  | 20.0                                     |               | 115  | 53-149  |     |       |           |
| Dichlorodifluoromethane (Freon 12)            | 20.6   | 1.0 | ug/l  | 20.0                                     |               | 103  | 67-126  |     |       |           |
| Ethylbenzene                                  | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105  | 37-162  |     |       |           |
| m,p-Xylene                                    | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100  | 81-121  |     |       |           |
| m-Dichlorobenzene                             | 20.7   | 1.0 | ug/l  | 20.0                                     |               | 103  | 59-156  |     |       |           |
| Methyl tert-butyl ether (MTBE)                | 95.0   | 1.0 | ug/l  | 80.0                                     |               | 119  | 80-128  |     |       |           |
| Methylene chloride                            | 22.1   | 1.0 | ug/l  | 20.0                                     |               | 110  | 0.1-221 |     |       |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4F1088 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |             |     |           |           |
| <b>LCS (W4F1088-BS1)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 06/13/24</b> |               |             |     |           |           |
| o-Dichlorobenzene                             | 18.8   | 1.0 | ug/l  | 20.0                                     |               | 94 18-190   |     |           |           |
| o-Xylene                                      | 20.7   | 1.0 | ug/l  | 20.0                                     |               | 103 84-121  |     |           |           |
| p-Dichlorobenzene                             | 18.7   | 1.0 | ug/l  | 20.0                                     |               | 94 18-190   |     |           |           |
| Tert-butyl alcohol                            | 93.4   | 5.0 | ug/l  | 80.0                                     |               | 117 53-144  |     |           |           |
| Tetrachloroethene                             | 22.7   | 1.0 | ug/l  | 20.0                                     |               | 114 64-148  |     |           |           |
| Toluene                                       | 23.0   | 1.0 | ug/l  | 20.0                                     |               | 115 47-150  |     |           |           |
| trans-1,2-Dichloroethene                      | 23.3   | 1.0 | ug/l  | 20.0                                     |               | 117 54-156  |     |           |           |
| trans-1,3-Dichloropropene                     | 23.2   | 1.0 | ug/l  | 20.0                                     |               | 116 17-183  |     |           |           |
| Trichloroethene                               | 21.3   | 1.0 | ug/l  | 20.0                                     |               | 107 71-157  |     |           |           |
| Trichlorofluoromethane                        | 21.5   | 1.0 | ug/l  | 20.0                                     |               | 107 17-181  |     |           |           |
| Vinyl chloride                                | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105 0.1-251 |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 49.9   |     | ug/l  | 50.0                                     |               | 100 82-125  |     |           |           |
| 4-Bromofluorobenzene                          | 49.9   |     | ug/l  | 50.0                                     |               | 100 88-108  |     |           |           |
| Toluene-d8                                    | 54.7   |     | ug/l  | 50.0                                     |               | 109 92-112  |     |           |           |
| <b>LCS Dup (W4F1088-BSD1)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 06/13/24</b> |               |             |     |           |           |
| 1,1,1-Trichloroethane                         | 21.5   | 1.0 | ug/l  | 20.0                                     |               | 108 52-162  | 7   | 25        |           |
| 1,1,2,2-Tetrachloroethane                     | 18.5   | 1.0 | ug/l  | 20.0                                     |               | 93 46-157   | 3   | 25        |           |
| 1,1,2-Trichloroethane                         | 22.9   | 1.0 | ug/l  | 20.0                                     |               | 115 52-150  | 2   | 25        |           |
| 1,1-Dichloroethane                            | 21.4   | 1.0 | ug/l  | 20.0                                     |               | 107 59-155  | 8   | 25        |           |
| 1,1-Dichloroethene                            | 19.8   | 1.0 | ug/l  | 20.0                                     |               | 99 0.1-234  | 10  | 25        |           |
| 1,2-Dichloroethane                            | 21.3   | 1.0 | ug/l  | 20.0                                     |               | 106 49-155  | 2   | 25        |           |
| 1,2-Dichloropropane                           | 22.8   | 1.0 | ug/l  | 20.0                                     |               | 114 0.1-210 | 2   | 25        |           |
| 2-Butanone                                    | 23.6   | 5.0 | ug/l  | 20.0                                     |               | 118 67-136  | 4   | 25        |           |
| 2-Chloroethyl vinyl ether                     | 21.1   | 1.0 | ug/l  | 20.0                                     |               | 105 0.1-305 | 7   | 25        |           |
| 2-Hexanone                                    | 21.6   | 5.0 | ug/l  | 20.0                                     |               | 108 76-133  | 1   | 25        |           |
| 4-Methyl-2-pentanone                          | 22.3   | 5.0 | ug/l  | 20.0                                     |               | 112 74-132  | 1   | 25        |           |
| Acetone                                       | 207    | 5.0 | ug/l  | 200                                      |               | 103 60-147  | 3   | 25        |           |
| Acrolein                                      | 23.3   | 5.0 | ug/l  | 20.0                                     |               | 117 49-152  | 4   | 25        |           |
| Acrylonitrile                                 | 24.9   | 2.0 | ug/l  | 20.0                                     |               | 125 74-127  | 2   | 25        |           |
| Benzene                                       | 21.8   | 1.0 | ug/l  | 20.0                                     |               | 109 37-151  | 4   | 25        |           |
| Bromodichloromethane                          | 22.7   | 1.0 | ug/l  | 20.0                                     |               | 113 35-155  | 2   | 25        |           |
| Bromoform                                     | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105 45-169  | 2   | 25        |           |
| Bromomethane                                  | 16.9   | 1.0 | ug/l  | 20.0                                     |               | 85 0.1-242  | 3   | 25        |           |
| Carbon Disulfide                              | 20.4   | 1.0 | ug/l  | 20.0                                     |               | 102 79-118  | 5   | 25        |           |
| Carbon tetrachloride                          | 21.1   | 1.0 | ug/l  | 20.0                                     |               | 105 70-140  | 7   | 25        |           |
| Chlorobenzene                                 | 19.5   | 1.0 | ug/l  | 20.0                                     |               | 97 37-160   | 0.2 | 25        |           |
| Chloroethane                                  | 19.4   | 1.0 | ug/l  | 20.0                                     |               | 97 14-230   | 8   | 25        |           |
| Chloroform                                    | 21.5   | 1.0 | ug/l  | 20.0                                     |               | 108 51-138  | 7   | 25        |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRP Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC | Limit   | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4F1088 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |      |         |     |       |           |
| <b>LCS Dup (W4F1088-BSD1)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 06/13/24</b> |               |      |         |     |       |           |
| Chloromethane                                 | 21.2   | 1.0 | ug/l  | 20.0                                     |               | 106  | 0.1-273 | 6   | 25    |           |
| cis-1,2-Dichloroethene                        | 22.2   | 1.0 | ug/l  | 20.0                                     |               | 111  | 85-121  | 8   | 25    |           |
| cis-1,3-Dichloropropene                       | 23.4   | 1.0 | ug/l  | 20.0                                     |               | 117  | 0.1-227 | 2   | 25    |           |
| Dibromochloromethane                          | 22.5   | 1.0 | ug/l  | 20.0                                     |               | 113  | 53-149  | 2   | 25    |           |
| Dichlorodifluoromethane (Freon 12)            | 19.2   | 1.0 | ug/l  | 20.0                                     |               | 96   | 67-126  | 7   | 25    |           |
| Ethylbenzene                                  | 21.0   | 1.0 | ug/l  | 20.0                                     |               | 105  | 37-162  | 0.3 | 25    |           |
| m,p-Xylene                                    | 19.8   | 1.0 | ug/l  | 20.0                                     |               | 99   | 81-121  | 0.7 | 25    |           |
| m-Dichlorobenzene                             | 19.7   | 1.0 | ug/l  | 20.0                                     |               | 98   | 59-156  | 5   | 25    |           |
| Methyl tert-butyl ether (MTBE)                | 90.0   | 1.0 | ug/l  | 80.0                                     |               | 113  | 80-128  | 5   | 25    |           |
| Methylene chloride                            | 20.6   | 1.0 | ug/l  | 20.0                                     |               | 103  | 0.1-221 | 7   | 25    |           |
| o-Dichlorobenzene                             | 18.5   | 1.0 | ug/l  | 20.0                                     |               | 93   | 18-190  | 1   | 25    |           |
| o-Xylene                                      | 20.8   | 1.0 | ug/l  | 20.0                                     |               | 104  | 84-121  | 0.6 | 25    |           |
| p-Dichlorobenzene                             | 18.9   | 1.0 | ug/l  | 20.0                                     |               | 95   | 18-190  | 0.9 | 25    |           |
| Tert-butyl alcohol                            | 91.4   | 5.0 | ug/l  | 80.0                                     |               | 114  | 53-144  | 2   | 25    |           |
| Tetrachloroethene                             | 20.6   | 1.0 | ug/l  | 20.0                                     |               | 103  | 64-148  | 10  | 25    |           |
| Toluene                                       | 22.0   | 1.0 | ug/l  | 20.0                                     |               | 110  | 47-150  | 4   | 25    |           |
| trans-1,2-Dichloroethene                      | 21.2   | 1.0 | ug/l  | 20.0                                     |               | 106  | 54-156  | 10  | 25    |           |
| trans-1,3-Dichloropropene                     | 23.0   | 1.0 | ug/l  | 20.0                                     |               | 115  | 17-183  | 1   | 25    |           |
| Trichloroethene                               | 19.4   | 1.0 | ug/l  | 20.0                                     |               | 97   | 71-157  | 10  | 25    |           |
| Trichlorofluoromethane                        | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100  | 17-181  | 7   | 25    |           |
| Vinyl chloride                                | 20.1   | 1.0 | ug/l  | 20.0                                     |               | 101  | 0.1-251 | 4   | 25    |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |      |         |     |       |           |
| 1,2-Dichloroethane-d4                         | 50.0   |     | ug/l  | 50.0                                     |               | 100  | 82-125  |     |       |           |
| 4-Bromofluorobenzene                          | 52.9   |     | ug/l  | 50.0                                     |               | 106  | 88-108  |     |       |           |
| Toluene-d8                                    | 53.0   |     | ug/l  | 50.0                                     |               | 106  | 92-112  |     |       |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual CWRF Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
08/07/2024 15:32

## Notes and Definitions

| Item   | Definition                                                                                                                                                                                                                                     |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN-IP  | Sample results for structural isomers may have contribution from their isomeric pair.                                                                                                                                                          |
| M-04   | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.                                                                                                      |
| M-05   | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.                                                                                                              |
| P      | Recovery outside of target range                                                                                                                                                                                                               |
| Q-02   | Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.                                             |
| Q-12   | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.                                |
| QC-2   | This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.                                                                                                                             |
| R-01   | The MDL and/or MRL for this analyte has been raised to account for matrix interference.                                                                                                                                                        |
| %REC   | Percent Recovery                                                                                                                                                                                                                               |
| Dil    | Dilution                                                                                                                                                                                                                                       |
| MDL    | Method Detection Limit                                                                                                                                                                                                                         |
| MRL    | Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) |
| ND     | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.                                                                                        |
| RPD    | Relative Percent Difference                                                                                                                                                                                                                    |
| Source | Sample that was matrix spiked or duplicated.                                                                                                                                                                                                   |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Rachael Morgan  
Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, California 92011

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## JOB DESCRIPTION

2024 CWRP Annual

## JOB NUMBER

570-188234-1



# Eurofins Calscience

## Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

## Authorization



Authorized for release by  
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# Definitions/Glossary

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

## Qualifiers

### 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. |
| B         | Compound was found in the blank and sample.                                                                                                               |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |

## Glossary

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

## Case Narrative

Client: Encina Wastewater Authority  
Project: 2024 CWRF Annual

Job ID: 570-188234-1

**Job ID: 570-188234-1**

**Eurofins Calscience**

### Job Narrative 570-188234-1

#### REVISION

The report being provided is a revision of the original report sent on 6/18/2024. The report (revision 2) is being revised to add lead result per client's request.

#### Report revision history

Revision 1 - 8/7/2024 - Reason - revised to add additional metals per client's request.

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 sample was received on 6/13/2024 7:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

#### **Metals**

Method 200.8\_LL - Total Recoverable: The method blank for preparation batch 570-451837 and analytical batch 570-451969 contained Cr, Ni, and Zn above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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## Detection Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

Client Sample ID: CWRP Effluent

Lab Sample ID: 570-188234-1

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type   |
|----------|--------|-----------|-----|------|------|---------|---|--------|-------------|
| Arsenic  | 1.2    |           | 1.0 | 0.16 | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |
| Antimony | 0.97   | J         | 1.0 | 0.51 | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |
| Chromium | 0.45   | J B       | 2.0 | 0.14 | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |
| Copper   | 4.6    |           | 2.0 | 0.32 | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |
| Nickel   | 3.6    | B         | 2.0 | 0.17 | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |
| Selenium | 1.3    | J         | 2.0 | 0.52 | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |
| Zinc     | 17     | J B       | 20  | 2.8  | ug/L | 1       |   | 200.8  | Total       |
|          |        |           |     |      |      |         |   |        | Recoverable |

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

# Client Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

## Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: CWRP Effluent  
Date Collected: 06/12/24 07:00  
Date Received: 06/13/24 19:30

Lab Sample ID: 570-188234-1  
Matrix: Water

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.2    |           | 1.0  | 0.16 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Beryllium | ND     |           | 0.50 | 0.26 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Cadmium   | ND     |           | 1.0  | 0.13 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Antimony  | 0.97   | J         | 1.0  | 0.51 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Chromium  | 0.45   | J B       | 2.0  | 0.14 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Copper    | 4.6    |           | 2.0  | 0.32 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Lead      | ND     |           | 1.0  | 0.12 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Nickel    | 3.6    | B         | 2.0  | 0.17 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Selenium  | 1.3    | J         | 2.0  | 0.52 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Silver    | ND     |           | 1.0  | 0.23 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Thallium  | ND     |           | 1.0  | 0.11 | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |
| Zinc      | 17     | J B       | 20   | 2.8  | ug/L |   | 06/18/24 06:09 | 06/18/24 10:13 | 1       |

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-451837/1-A  
Matrix: Water  
Analysis Batch: 451969

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 451837

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Antimony | ND        |              | 1.0 | 0.51 | ug/L |   | 06/18/24 06:04 | 06/18/24 09:44 | 1       |

Lab Sample ID: LCS 570-451837/2-A  
Matrix: Water  
Analysis Batch: 451969

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 451837

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 80.0        | 86.9       |               | ug/L |   | 109  | 85 - 115    |

Lab Sample ID: LCSD 570-451837/3-A  
Matrix: Water  
Analysis Batch: 451969

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total Recoverable  
Prep Batch: 451837

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Antimony | 80.0        | 90.8        |                | ug/L |   | 113  | 85 - 115    | 4   | 20        |

Lab Sample ID: 570-188413-A-1-B MS ^5  
Matrix: Water  
Analysis Batch: 451969

Client Sample ID: Matrix Spike  
Prep Type: Total Recoverable  
Prep Batch: 451837

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Arsenic   | 270           |                  | 80.0        | 351       |              | ug/L |   | 102  | 80 - 120    |
| Beryllium | 110           |                  | 80.0        | 188       |              | ug/L |   | 102  | 80 - 120    |
| Cadmium   | 100           |                  | 80.0        | 184       |              | ug/L |   | 102  | 80 - 120    |
| Chromium  | 110           | B                | 80.0        | 184       |              | ug/L |   | 98   | 80 - 120    |
| Copper    | 110           |                  | 80.0        | 190       |              | ug/L |   | 102  | 80 - 120    |
| Lead      | 100           |                  | 80.0        | 187       |              | ug/L |   | 105  | 80 - 120    |
| Nickel    | 110           | B                | 80.0        | 185       |              | ug/L |   | 96   | 80 - 120    |
| Selenium  | 470           |                  | 80.0        | 542       | 4            | ug/L |   | 88   | 80 - 120    |
| Silver    | 17            |                  | 80.0        | 97.4      |              | ug/L |   | 100  | 80 - 120    |
| Thallium  | 260           |                  | 80.0        | 347       |              | ug/L |   | 108  | 80 - 120    |
| Zinc      | 480           | B                | 80.0        | 572       | 4            | ug/L |   | 112  | 80 - 120    |

Lab Sample ID: 570-188413-A-1-C MSD ^5  
Matrix: Water  
Analysis Batch: 451969

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total Recoverable  
Prep Batch: 451837

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Arsenic   | 270           |                  | 80.0        | 351        |               | ug/L |   | 102  | 80 - 120    | 0   | 20        |
| Beryllium | 110           |                  | 80.0        | 189        |               | ug/L |   | 104  | 80 - 120    | 1   | 20        |
| Cadmium   | 100           |                  | 80.0        | 185        |               | ug/L |   | 103  | 80 - 120    | 1   | 20        |
| Chromium  | 110           | B                | 80.0        | 191        |               | ug/L |   | 107  | 80 - 120    | 4   | 20        |
| Copper    | 110           |                  | 80.0        | 193        |               | ug/L |   | 106  | 80 - 120    | 2   | 20        |
| Lead      | 100           |                  | 80.0        | 186        |               | ug/L |   | 104  | 80 - 120    | 1   | 20        |
| Nickel    | 110           | B                | 80.0        | 189        |               | ug/L |   | 102  | 80 - 120    | 2   | 20        |
| Selenium  | 470           |                  | 80.0        | 565        | 4             | ug/L |   | 117  | 80 - 120    | 4   | 20        |
| Silver    | 17            |                  | 80.0        | 98.7       |               | ug/L |   | 102  | 80 - 120    | 1   | 20        |
| Thallium  | 260           |                  | 80.0        | 348        |               | ug/L |   | 109  | 80 - 120    | 0   | 20        |
| Zinc      | 480           | B                | 80.0        | 574        | 4             | ug/L |   | 114  | 80 - 120    | 0   | 20        |

Eurofins Calscience

QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRf Annual

Job ID: 570-188234-1

Method: 200.8 - Metals (ICP/MS) (Continued)

|                                    |               |                  |             |           |              |      |   |      |             |                                |  |  |  |
|------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--------------------------------|--|--|--|
| Lab Sample ID: 570-188498-G-3-B MS |               |                  |             |           |              |      |   |      |             | Client Sample ID: Matrix Spike |  |  |  |
| Matrix: Water                      |               |                  |             |           |              |      |   |      |             | Prep Type: Total Recoverable   |  |  |  |
| Analysis Batch: 451969             |               |                  |             |           |              |      |   |      |             | Prep Batch: 451837             |  |  |  |
| Analyte                            | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |                                |  |  |  |
| Antimony                           | ND            |                  | 80.0        | 89.4      |              | ug/L |   | 112  | 80 - 120    |                                |  |  |  |

|                                     |               |                  |             |            |               |      |   |      |             |                                          |           |  |  |
|-------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|------------------------------------------|-----------|--|--|
| Lab Sample ID: 570-188498-G-3-C MSD |               |                  |             |            |               |      |   |      |             | Client Sample ID: Matrix Spike Duplicate |           |  |  |
| Matrix: Water                       |               |                  |             |            |               |      |   |      |             | Prep Type: Total Recoverable             |           |  |  |
| Analysis Batch: 451969              |               |                  |             |            |               |      |   |      |             | Prep Batch: 451837                       |           |  |  |
| Analyte                             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD                                      | RPD Limit |  |  |
| Antimony                            | ND            |                  | 80.0        | 89.2       |               | ug/L |   | 111  | 80 - 120    | 0                                        | 20        |  |  |



# QC Association Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

## Metals

### Prep Batch: 451837

| Lab Sample ID           | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|-------------------------|------------------------|-------------------|--------|--------|------------|
| 570-188234-1            | CWRP Effluent          | Total Recoverable | Water  | 200.8  |            |
| MB 570-451837/1-A       | Method Blank           | Total Recoverable | Water  | 200.8  |            |
| LCS 570-451837/2-A      | Lab Control Sample     | Total Recoverable | Water  | 200.8  |            |
| LCSD 570-451837/3-A     | Lab Control Sample Dup | Total Recoverable | Water  | 200.8  |            |
| 570-188413-A-1-B MS ^5  | Matrix Spike           | Total Recoverable | Water  | 200.8  |            |
| 570-188413-A-1-C MSD ^5 | Matrix Spike Duplicate | Total Recoverable | Water  | 200.8  |            |
| 570-188498-G-3-B MS     | Matrix Spike           | Total Recoverable | Water  | 200.8  |            |
| 570-188498-G-3-C MSD    | Matrix Spike Duplicate | Total Recoverable | Water  | 200.8  |            |

### Analysis Batch: 451969

| Lab Sample ID           | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|-------------------------|------------------------|-------------------|--------|--------|------------|
| 570-188234-1            | CWRP Effluent          | Total Recoverable | Water  | 200.8  | 451837     |
| MB 570-451837/1-A       | Method Blank           | Total Recoverable | Water  | 200.8  | 451837     |
| LCS 570-451837/2-A      | Lab Control Sample     | Total Recoverable | Water  | 200.8  | 451837     |
| LCSD 570-451837/3-A     | Lab Control Sample Dup | Total Recoverable | Water  | 200.8  | 451837     |
| 570-188413-A-1-B MS ^5  | Matrix Spike           | Total Recoverable | Water  | 200.8  | 451837     |
| 570-188413-A-1-C MSD ^5 | Matrix Spike Duplicate | Total Recoverable | Water  | 200.8  | 451837     |
| 570-188498-G-3-B MS     | Matrix Spike           | Total Recoverable | Water  | 200.8  | 451837     |
| 570-188498-G-3-C MSD    | Matrix Spike Duplicate | Total Recoverable | Water  | 200.8  | 451837     |

# Lab Chronicle

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

**Client Sample ID: CWRP Effluent**  
**Date Collected: 06/12/24 07:00**  
**Date Received: 06/13/24 19:30**

**Lab Sample ID: 570-188234-1**  
**Matrix: Water**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total Recoverable      | Prep       | 200.8        |     |            | 50 mL          | 50 mL        | 451837       | 06/18/24 06:09       | JP8N    | EET CAL 4 |
| Total Recoverable      | Analysis   | 200.8        |     | 1          |                |              | 451969       | 06/18/24 10:13       | C0YH    | EET CAL 4 |
| Instrument ID: ICPMS10 |            |              |     |            |                |              |              |                      |         |           |

**Laboratory References:**  
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRf Annual

Job ID: 570-188234-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

| Authority  | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| California | State   | 3082                  | 07-31-24        |
| Oregon     | NELAP   | 4175                  | 02-02-25        |

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# Method Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

| Method | Method Description                    | Protocol | Laboratory |
|--------|---------------------------------------|----------|------------|
| 200.8  | Metals (ICP/MS)                       | EPA      | EET CAL 4  |
| 200.8  | Preparation, Total Recoverable Metals | EPA      | EET CAL 4  |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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# Sample Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 CWRP Annual

Job ID: 570-188234-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 570-188234-1  | CWRP Effluent    | Water  | 06/12/24 07:00 | 06/13/24 19:30 |

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## Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-188234-1

Login Number: 188234

List Number: 1

Creator: Skinner, Alma D

List Source: Eurofins Calscience

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

**CARLSBAD WATER RECYCLING FACILITY**

REPORT FOR: JANUARY-DECEMBER 2024  
 REPORT FREQUENCY: ANNUAL  
 SAMPLES COLLECTED BY: SN,AP,DM

REPORT DUE: FEBRUARY 1, 2025  
 SAMPLING POINT: EFFLUENT STATION  
 SAMPLES ANALYZED BY: ENCINA LAB  
 WECK LABS/EUROFINS CALSCIENCE

**ANNUAL EFFLUENT MONITORING**

| ANALYSIS    | UNITS | SAMPLE DATE<br>TIME<br>6/11-12/2024 @ 07:00 | SAMPLE<br>TYPE | VALUE     | ANNUAL<br>AVERAGE<br>LIMIT<br>MG/L |
|-------------|-------|---------------------------------------------|----------------|-----------|------------------------------------|
|             |       |                                             | COMPOSITE      |           |                                    |
| ALUMINUM    | MG/L  | "                                           | "              | <0.05     | 1.0                                |
| ANTIMONY    | MG/L  | "                                           | "              | 0.00097 J | 0.006                              |
| ARSENIC     | MG/L  | "                                           | "              | 0.001     | 0.05                               |
| ASBESTOS    | MFL   | "                                           | "              | <0.34     |                                    |
| BARIUM      | MG/L  | "                                           | "              | 0.05      | 1                                  |
| BERYLLIUM   | MG/L  | "                                           | "              | < 0.0005  | 0.004                              |
| CADMIUM     | MG/L  | "                                           | "              | <0.001    | 0.005                              |
| CHROMIUM    | MG/L  | "                                           | "              | 0.00045 J |                                    |
| COPPER      | MG/L  | "                                           | "              | 0.005     |                                    |
| CYANIDE     | MG/L  | "                                           | "              | 0.2       | 0.2                                |
| LEAD        | MG/L  | "                                           | "              | <0.001    |                                    |
| MERCURY     | MG/L  | "                                           | "              | < 0.00005 | 0.002                              |
| NICKEL      | MG/L  | "                                           | "              | 0.004     | 0.1                                |
| SELENIUM    | MG/L  | "                                           | "              | 0.001 J   | 0.05                               |
| SILVER      | MG/L  | "                                           | "              | <0.001    |                                    |
| THALLIUM    | MG/L  | "                                           | "              | <0.001    | 0.002                              |
| ZINC        | MG/L  | "                                           | "              | 0.017 J   |                                    |
| PERCHLORATE | MG/L  | "                                           | "              | <0.005    | 0.006                              |

PRIORITY POLLUTANTS

SEE ATTACHED REPORT

J values between detection limit and reporting limit

I certify that the above information is accurate to the best of my knowledge and that the samples were preserved, prepared, and analyzed according to EPA protocol.

Laboratory Manager Signature:

Richard Umongan 12-26-24



## Report Prepared for:

Ryan Gasio  
Weck Laboratories Inc  
14859 Clark Avenue  
Hacienda Heights CA 91745

# REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

## Report Prepared Date:

June 28, 2024

## Report Information:

**Pace Project #: 10696977**  
**Sample Receipt Date: 06/20/2024**  
**Client Project #: 4F13032**  
**Client Sub PO #: N/A**  
**State Cert #: 2929**

## Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

## This report has been reviewed by:



June 28, 2024

Joanne Richardson,  
(612) 607-6453  
(612) 607-6444 (fax)



## Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

## **DISCUSSION**

This report presents the results from the analysis performed on one sample submitted by a representative of Weck Laboratories, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to statistically derived method detection limits (MDLs) and were adjusted for sample extraction amount. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 38-55%. Except for three low values, which were flagged "R" on the results tables, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 92-125% with relative percent differences of 0.0-9.3%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

The responses obtained for selected labeled congeners in calibration standard analyses F240622A\_16 and F240627A\_18 were outside the target range. As specified in our procedures for this method, the averages of the daily response factors for these compounds were used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

## **REPORT OF LABORATORY ANALYSIS**

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## Minnesota Laboratory Certifications

| Authority      | Certificate #  | Authority       | Certificate #  |
|----------------|----------------|-----------------|----------------|
| A2LA           | 2926.01        | Missouri        | 10100          |
| Alabama        | 40770          | Montana         | CERT0092       |
| Alaska-DW      | MN00064        | Nebraska        | NE-OS-18-06    |
| Alaska-UST     | 17-009         | Nevada          | MN00064        |
| Arizona        | AZ0014         | New Hampshire   | 2081           |
| Arkansas - WW  | 88-0680        | New Jersey      | MN002          |
| Arkansas-DW    | MN00064        | New York        | 11647          |
| California     | 2929           | North Carolina- | 27700          |
| Colorado       | MN00064        | North Carolina- | 530            |
| Connecticut    | PH-0256        | North Dakota    | R-036          |
| Florida        | E87605         | Ohio-DW         | 41244          |
| Georgia        | 959            | Ohio-VAP (170   | CL101          |
| Hawaii         | MN00064        | Ohio-VAP (180   | CL110          |
| Idaho          | MN00064        | Oklahoma        | 9507           |
| Illinois       | 200011         | Oregon-Primary  | MN300001       |
| Indiana        | C-MN-01        | Oregon-Second   | MN200001       |
| Iowa           | 368            | Pennsylvania    | 68-00563       |
| Kansas         | E-10167        | Puerto Rico     | MN00064        |
| Kentucky-DW    | 90062          | South Carolina  | 74003          |
| Kentucky-WW    | 90062          | Tennessee       | TN02818        |
| Louisiana-DEQ  | AI-84596       | Texas           | T104704192     |
| Louisiana-DW   | MN00064        | Utah            | MN00064        |
| Maine          | MN00064        | Vermont         | VT-027053137   |
| Maryland       | 322            | Virginia        | 460163         |
| Michigan       | 9909           | Washington      | C486           |
| Minnesota      | 027-053-137    | West Virginia-D | 382            |
| Minnesota-Ag   | via MN 027-053 | West Virginia-D | 9952C          |
| Minnesota-Petr | 1240           | Wisconsin       | 999407970      |
| Mississippi    | MN00064        | Wyoming-UST     | via A2LA 2926. |

## REPORT OF LABORATORY ANALYSIS

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Fax: 612.607.6444  
[www.pacelabs.com](http://www.pacelabs.com)

## **Appendix A**

### **Sample Management**

## **REPORT OF LABORATORY ANALYSIS**

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# Chain of Custody

Project Number: 4F13032

## Laboratory:

Pace Analytical Services - Minneapolis MIN  
3700 Elm St. SE, Suite 200  
Minneapolis, MN 55414  
Phone: (612) 607-1700  
Fax:

## Project:

Encina Wastewater Authority

## Project Number:

4F13032

## Week Manager:

Ryan J. Gasio

## Sample Name

- Container(s)

4F13032-01/CWRF Effluent

- 1-L Amber Glass-Dioxin

## Matrix

Water

- 1-L Amber Glass-Dioxin

## Sampled

Date/Time (24H)

6/12/24 7:00

## Analyses Requested

Dioxins/Furans - EPA 8290

## Turn Around Time:

Normal unless noted in comments

## Drinking Water:

Yes / No

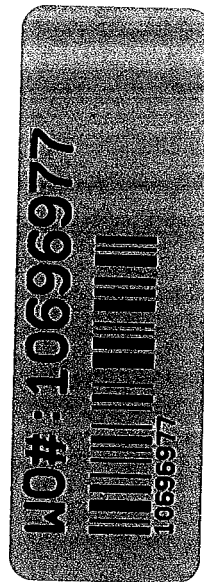
## Need Transfer File (xls):

Yes / No

## Tracking Number:

## Comments

Please include MDL 01



## Remarks / Special Comments:

## Sample Condition

Temperature: 14.0

Preserved: Yes / No

Evidence Seal Intact: Yes / No

Container Attacked: Yes / No

Preserved at Lab: Yes / No

Relinquished By: Signature  
Date / Time Received By: Signature  
Date / Time Received By: Signature

Relinquished By: Signature  
Date / Time Received By: Signature  
Date / Time Received By: Signature

Relinquished By: Signature  
Date / Time Received By: Signature  
Date / Time Received By: Signature

# ENV-FRM-MIN4-0150 v17\_Sample Condition Upon Receipt

CLIENT NAME: Week Laboratories

PROJECT #:

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace  
☐ Speedee ☐ UPS ☐ USPS

**WO# : 10696977**

PM: JMR Due Date: 07/03/24

CLIENT: Week Laborat

TRACKING NUMBER: 776900179645 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A

Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☒ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)  
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710) ☒ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A

Correction Factor: -0.3 Cooler Temp Read w/Temp Blank: \_\_\_\_\_ °C Average Corrected Temp (no Temp Blank Only): 19.0 °C

NOTE: Temp should be above freezing to 6°C. Cooler Temp Corrected w/Temp Blank: \_\_\_\_\_ °C ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☒ 1 Container

USDA Regulated Soil: ☒ N/A ☐ Water Sample/Other (describe): \_\_\_\_\_ Initials & Date of Person Examining Contents: JMR 6/19/24

Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

| LOCATION (check one):                                                                                                                                                                                                                                                                                                                                   | DULUTH                              | MINNEAPOLIS                         | VIRGINIA                            | YES                                 | NO                                  | N/A                                 | COMMENT(S)                                                                                                                                                                                                                                                                                                                                       |                |  |  |  |                   |          |           |            |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|--|--|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out?                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Chain of Custody Relinquished?                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 2.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Sampler Name and/or Signature on COC?                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 3.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Samples Arrived within Hold Time?                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Short Hold Time Analysis (<72 hr)?                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom<br><input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos<br><input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____ |                |  |  |  |                   |          |           |            |  |  |  |  |
| Rush Turn Around Time Requested?                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Sufficient Sample Volume?                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Correct Containers Used?                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 8.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| – Pace Containers Used?                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 9.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Containers Intact?                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 10. Is sediment visible in the dissolved container:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Field Filtered Volume Received for Dissolved Tests?                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 11. If NO, write ID/Date/Time of container below:<br><input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                              |                |  |  |  |                   |          |           |            |  |  |  |  |
| Is sufficient information available to reconcile the samples to the COC?<br>NOTE: If ID/Date/Time don't match fill out section 11.<br>Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other                                                                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 12. Sample #:<br><input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate<br>Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| All containers needing acid/base preservation have been checked?<br>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)<br>Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <table border="1"> <thead> <tr> <th colspan="4">pH Paper Lot #</th> </tr> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                    | pH Paper Lot # |  |  |  | Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip |  |  |  |  |
| pH Paper Lot #                                                                                                                                                                                                                                                                                                                                          |                                     |                                     |                                     |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Residual Chlorine                                                                                                                                                                                                                                                                                                                                       | 0-6 Roll                            | 0-6 Strip                           | 0-14 Strip                          |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| NOTE: If adding preservation to the container, verify with the PM first.<br>Clients may require adding preservative to the field and equipment blanks when this occurs.                                                                                                                                                                                 |                                     |                                     |                                     |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Headspace in Methyl Mercury Container?                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 13.                                                                                                                                                                                                                                                                                                                                              |                |  |  |  |                   |          |           |            |  |  |  |  |
| Extra labels present on soil VOA or WIDRO containers?                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 14.                                                                                                                                                                                                                                                                                                                                              |                |  |  |  |                   |          |           |            |  |  |  |  |
| Headspace in VOA Vials (greater than 6mm)?                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140                                                                                                                                                                                                                                                                                   |                |  |  |  |                   |          |           |            |  |  |  |  |
| Trip Blanks Present?                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 15.                                                                                                                                                                                                                                                                                                                                              |                |  |  |  |                   |          |           |            |  |  |  |  |
| Trip Blank Custody Seals Present?                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Pace Trip Blank Lot # (if purchased): _____                                                                                                                                                                                                                                                                                                      |                |  |  |  |                   |          |           |            |  |  |  |  |

## CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Comments / Resolution: \_\_\_\_\_

Project Manager Review: Joanne Richardson

Date: 6-20-24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMR Line: 5

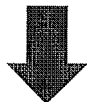
ENV-FRM-MIN4-0142 v03\_Sample Condition Upon Receipt - Exceptions

Workorder #: 10696977

| No Temp Blank |                |              |
|---------------|----------------|--------------|
| Read Temp     | Corrected Temp | Average temp |
|               |                |              |
|               |                |              |
|               |                |              |
|               |                |              |

|                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM Notified of Out of Temp Cooler?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, indicate who was contacted, date and time.<br>If no, indicate reason why.<br><i>Journe Mickelson 10:08 6/19/24</i> |
| <b>Multiple Cooler Project?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                                                                                         |

If anything is OVER 6.0°C, you **MUST** document containers in this section HERE



| Tracking Number | Temperature |
|-----------------|-------------|
| 776900179645    | 14.0        |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |



| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
| 4F13632-01            | Alu            | 1               |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |

pH Adjustment Log for Preserved Samples

| Sample ID | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? |                          | Initials |
|-----------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
|           |                  |                 |               |               |                   |             |          | YES                           | NO                       |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|           |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |

Comments:

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Report No. 10696977-01

Laboratory:

Trace Analytical Services - Minneapolis MN  
4700 Elm St. SE, Suite 200  
Minneapolis, MN 55414  
Phone: (612) 607-1700  
Fax:

Project:

Encina Wastewater Authority

Project Number:

4F13032

Week Manager:

Ryan J. Gasio

Sample Name

• Container(s)

Matrix

4F13032-01/CWRF Effluent 06/11-06/12/24

Water

Sampled

Date/Time (24h)

6/12/24 7:00

Analyses Requested

Dioxins/Furans - EPA 8290

Comments

Please include MDL-001

# Chain of Custody

Project Number: 4F13032

Turn Around Time:

Normal unless noted in comments

Drinking Water:

Yes / No

Need Transfer File (xIs):

Yes / No

Tracking Number:

Remarks / Special Comments:

Sample Condition

Temperature: 0.6

Preserved: Yes / No

Evidence Seal Intact: Yes / No

Container Attacked: Yes / No

Preserved at Lab: Yes / No

Signature: [Signature] Date / Time: 6/20/24 8:30

Signature: [Signature] Date / Time: [Blank]

Signature: [Signature] Date / Time: [Blank]



# ENV-FRM-MIN4-0150 v17\_Sample Condition Upon Receipt

CLIENT NAME: Week PROJECT #: \_\_\_\_\_

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace  
☐ Speedee ☐ UPS ☐ USPS

TRACKING NUMBER: 7765 4559 1540 ☐ See Exceptions form ENV-FRM-MIN4-0142

WO#: 10696977

PM: JMR Due Date: 07/03/24  
 CLIENT: Week Laboratory

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A  
 Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet  
 Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)  
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A  
 Correction Factor: -0.3 Cooler Temp Read w/Temp Blank: \_\_\_\_\_ °C Average Corrected Temp (no Temp Blank Only): 16 °C  
 Cooler Temp Corrected w/Temp Blank: \_\_\_\_\_ °C  
 NOTE: Temp should be above freezing to 6°C. ☒ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☒ N/A - Water Sample/Other (describe): \_\_\_\_\_ Initials & Date of Person Examining Contents: MC 6/20/24  
 Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO  
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

| LOCATION (check one):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> DULUTH | <input checked="" type="checkbox"/> MINNEAPOLIS | <input type="checkbox"/> VIRGINIA | YES                                 | NO                                  | N/A | COMMENT(S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |          |           |            |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Chain of Custody Relinquished?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Sampler Name and/or Signature on COC?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Samples Arrived within Hold Time?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Short Hold Time Analysis (<72 hr)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom<br><input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos<br><input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____                                                                                                                                                                                                     |                   |          |           |            |  |  |  |  |
| Rush Turn Around Time Requested?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Sufficient Sample Volume?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Correct Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| - Pace Containers Used?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Containers Intact?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |          |           |            |  |  |  |  |
| Field Filtered Volume Received for Dissolved Tests?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 10. Is sediment visible in the dissolved container:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Is sufficient information available to reconcile the samples to the COC?<br>NOTE: If ID/Date/Time don't match fill out section 11.<br>Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other                                                                                                                                                                                                                                                  |                                 | <input checked="" type="checkbox"/>             |                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |     | 11. If NO, write ID/Date/Time of container below:<br><input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| All containers needing acid/base preservation have been checked?<br>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)<br>Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS<br>NOTE: If adding preservation to the container, verify with the PM first.<br>Clients may require adding preservative to the field and equipment blanks when this occurs. |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 12. Sample #:<br><input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate<br>Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO<br>pH Paper Lot #<br><table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 | Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip |  |  |  |  |
| Residual Chlorine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0-6 Roll                        | 0-6 Strip                                       | 0-14 Strip                        |                                     |                                     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                 |                                   |                                     |                                     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |           |            |  |  |  |  |
| Headspace in Methyl Mercury Container?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Extra labels present on soil VOA or WIDRO containers?                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Headspace in VOA Vials (greater than 6mm)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |          |           |            |  |  |  |  |
| Trip Blanks Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |          |           |            |  |  |  |  |
| Trip Blank Custody Seals Present?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | <input type="checkbox"/>                        |                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |     | Pace Trip Blank Lot # (if purchased): _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |          |           |            |  |  |  |  |

## CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_  
 Comments / Resolution: Additional volume.

Project Manager Review: Joanne Richardson Date: 6-20-24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

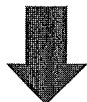
Labeled By: CM1 Line: 2

Workorder #: 10696977

| No Temp Blank |                |              |
|---------------|----------------|--------------|
| Read Temp     | Corrected Temp | Average temp |
| 1.1           | 0.8            | 0.6          |
| 0.6           | 0.3            |              |
|               |                |              |
|               |                |              |

|                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM Notified of Out of Temp Cooler?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, indicate who was contacted, date and time.<br>If no, indicate reason why.<br><br> |
| <b>Multiple Cooler Project?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                        |

If anything is OVER 6.0°C, you **MUST** document containers in this section **HERE**



| Tracking Number | Temperature |
|-----------------|-------------|
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |



| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |

| pH Adjustment Log for Preserved Samples |                  |                 |               |               |                   |             |          |                               |                          |          |
|-----------------------------------------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
| Sample ID                               | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? |                          | Initials |
|                                         |                  |                 |               |               |                   |             |          | YES                           | NO                       |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |

Comments:



## Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

## REPORT OF LABORATORY ANALYSIS

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## **Appendix B**

### **Sample Analysis Summary**

## **REPORT OF LABORATORY ANALYSIS**

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## Method 8290 Sample Analysis Results

Client - Weck Laboratories Inc

|                        |                           |                |                  |  |
|------------------------|---------------------------|----------------|------------------|--|
| Client's Sample ID     | 4F13032-01/CWRF Effluent  | 06/11-06/12/24 |                  |  |
| Lab Sample ID          | 10696977001               |                |                  |  |
| Filename               | F240627A_10               |                |                  |  |
| Injected By            | SMT                       |                |                  |  |
| Total Amount Extracted | 974 mL                    | Matrix         | WATER            |  |
| % Moisture             | NA                        | Dilution       | NA               |  |
| Dry Weight Extracted   | NA                        | Collected      | 06/12/2024 07:00 |  |
| ICAL ID                | F240604                   | Received       | 06/20/2024 08:50 |  |
| CCal Filename(s)       | F240627A_02 & F240627A_18 | Extracted      | 06/20/2024 15:30 |  |
| Method Blank ID        | BLANK-113477              | Analyzed       | 06/27/2024 15:33 |  |

| Native Isomers      | Conc<br>pg/L | EMPC<br>pg/L | MDL<br>pg/L | Internal Standards                     | ng's<br>Added | Percent<br>Recovery |
|---------------------|--------------|--------------|-------------|----------------------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND           | ----         | 2.2         | 2,3,7,8-TCDF-13C                       | 2.00          | 40                  |
| Total TCDF          | ND           | ----         | 2.2         | 2,3,7,8-TCDD-13C                       | 2.00          | 38 R                |
|                     |              |              |             | 1,2,3,7,8-PeCDF-13C                    | 2.00          | 44                  |
| 2,3,7,8-TCDD        | ND           | ----         | 2.2         | 2,3,4,7,8-PeCDF-13C                    | 2.00          | 45                  |
| Total TCDD          | ND           | ----         | 2.2         | 1,2,3,7,8-PeCDD-13C                    | 2.00          | 45                  |
|                     |              |              |             | 1,2,3,4,7,8-HxCDF-13C                  | 2.00          | 51                  |
| 1,2,3,7,8-PeCDF     | ND           | ----         | 2.7         | 1,2,3,6,7,8-HxCDF-13C                  | 2.00          | 49                  |
| 2,3,4,7,8-PeCDF     | ND           | ----         | 2.1         | 2,3,4,6,7,8-HxCDF-13C                  | 2.00          | 49                  |
| Total PeCDF         | ND           | ----         | 2.1         | 1,2,3,7,8,9-HxCDF-13C                  | 2.00          | 51                  |
|                     |              |              |             | 1,2,3,4,7,8-HxCDD-13C                  | 2.00          | 41                  |
| 1,2,3,7,8-PeCDD     | ND           | ----         | 2.0         | 1,2,3,6,7,8-HxCDD-13C                  | 2.00          | 46                  |
| Total PeCDD         | ND           | ----         | 2.0         | 1,2,3,4,6,7,8-HpCDF-13C                | 2.00          | 41                  |
|                     |              |              |             | 1,2,3,4,7,8,9-HpCDF-13C                | 2.00          | 44                  |
| 1,2,3,4,7,8-HxCDF   | ND           | ----         | 4.3         | 1,2,3,4,6,7,8-HpCDD-13C                | 2.00          | 42                  |
| 1,2,3,6,7,8-HxCDF   | ND           | ----         | 4.7         | OCDD-13C                               | 4.00          | 55 Y                |
| 2,3,4,6,7,8-HxCDF   | ND           | ----         | 4.1         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND           | ----         | 4.9         | 1,2,3,4-TCDD-13C                       | 2.00          | NA                  |
| Total HxCDF         | ND           | ----         | 4.1         | 1,2,3,7,8,9-HxCDD-13C                  | 2.00          | NA                  |
|                     |              |              |             |                                        |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND           | ----         | 4.2         | 2,3,7,8-TCDD-37Cl4                     | 0.20          | 53                  |
| 1,2,3,6,7,8-HxCDD   | ND           | ----         | 3.9         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND           | ----         | 5.0         |                                        |               |                     |
| Total HxCDD         | ND           | ----         | 3.9         |                                        |               |                     |
|                     |              |              |             |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND           | ----         | 4.4         | Total 2,3,7,8-TCDD                     |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND           | ----         | 5.2         | Equivalence: 0.00 pg/L                 |               |                     |
| Total HpCDF         | ND           | ----         | 4.4         | (Lower-bound - Using 2005 WHO Factors) |               |                     |
|                     |              |              |             |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND           | ----         | 4.3         |                                        |               |                     |
| Total HpCDD         | ND           | ----         | 4.3         |                                        |               |                     |
|                     |              |              |             |                                        |               |                     |
| OCDF                | ND           | ----         | 15          |                                        |               |                     |
| OCDD                | ND           | ----         | 15          |                                        |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

R = Recovery outside target range

Y = Calculated using average of daily RFs

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Blank Analysis Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample Name        | DFBLKQO                   | Matrix      | Water            |
| Lab Sample ID          | BLANK-113477              | Dilution    | NA               |
| Filename               | F240622A_11               | Extracted   | 06/20/2024 15:30 |
| Total Amount Extracted | 958 mL                    | Analyzed    | 06/22/2024 18:08 |
| ICAL ID                | F240604                   | Injected By | JRH              |
| CCal Filename(s)       | F240621C_17 & F240622A_16 |             |                  |

| Native Isomers      | Conc<br>pg/L | EMPC<br>pg/L | MDL<br>pg/L | Internal Standards                     | ng's<br>Added | Percent<br>Recovery |
|---------------------|--------------|--------------|-------------|----------------------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND           | ----         | 2.3         | 2,3,7,8-TCDF-13C                       | 2.00          | 66                  |
| Total TCDF          | ND           | ----         | 2.3         | 2,3,7,8-TCDD-13C                       | 2.00          | 57                  |
|                     |              |              |             | 1,2,3,7,8-PeCDF-13C                    | 2.00          | 54                  |
| 2,3,7,8-TCDD        | ND           | ----         | 2.3         | 2,3,4,7,8-PeCDF-13C                    | 2.00          | 61                  |
| Total TCDD          | ND           | ----         | 2.3         | 1,2,3,7,8-PeCDD-13C                    | 2.00          | 64                  |
|                     |              |              |             | 1,2,3,4,7,8-HxCDF-13C                  | 2.00          | 71                  |
| 1,2,3,7,8-PeCDF     | ND           | ----         | 2.7         | 1,2,3,6,7,8-HxCDF-13C                  | 2.00          | 73                  |
| 2,3,4,7,8-PeCDF     | ND           | ----         | 2.2         | 2,3,4,6,7,8-HxCDF-13C                  | 2.00          | 66                  |
| Total PeCDF         | ND           | ----         | 2.2         | 1,2,3,7,8,9-HxCDF-13C                  | 2.00          | 58                  |
|                     |              |              |             | 1,2,3,4,7,8-HxCDD-13C                  | 2.00          | 58                  |
| 1,2,3,7,8-PeCDD     | ND           | ----         | 2.0         | 1,2,3,6,7,8-HxCDD-13C                  | 2.00          | 65                  |
| Total PeCDD         | ND           | ----         | 2.0         | 1,2,3,4,6,7,8-HpCDF-13C                | 2.00          | 49                  |
|                     |              |              |             | 1,2,3,4,7,8,9-HpCDF-13C                | 2.00          | 53 Y                |
| 1,2,3,4,7,8-HxCDF   | ND           | ----         | 4.3         | 1,2,3,4,6,7,8-HpCDD-13C                | 2.00          | 47                  |
| 1,2,3,6,7,8-HxCDF   | ND           | ----         | 4.8         | OCDD-13C                               | 4.00          | 41 Y                |
| 2,3,4,6,7,8-HxCDF   | ND           | ----         | 4.2         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND           | ----         | 5.0         | 1,2,3,4-TCDD-13C                       | 2.00          | NA                  |
| Total HxCDF         | ND           | ----         | 4.2         | 1,2,3,7,8,9-HxCDD-13C                  | 2.00          | NA                  |
|                     |              |              |             |                                        |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND           | ----         | 4.2         | 2,3,7,8-TCDD-37Cl4                     | 0.20          | 80                  |
| 1,2,3,6,7,8-HxCDD   | ND           | ----         | 3.9         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND           | ----         | 5.1         |                                        |               |                     |
| Total HxCDD         | ND           | ----         | 3.9         |                                        |               |                     |
|                     |              |              |             |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND           | ----         | 4.4         | Total 2,3,7,8-TCDD                     |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND           | ----         | 5.3         | Equivalence: 0.00 pg/L                 |               |                     |
| Total HpCDF         | ND           | ----         | 4.4         | (Lower-bound - Using 2005 WHO Factors) |               |                     |
|                     |              |              |             |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND           | ----         | 4.4         |                                        |               |                     |
| Total HpCDD         | ND           | ----         | 4.4         |                                        |               |                     |
|                     |              |              |             |                                        |               |                     |
| OCDF                | ND           | ----         | 15          |                                        |               |                     |
| OCDD                | ND           | ----         | 15          |                                        |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

Y = Calculated using average of daily RFs

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## Method 8290 Laboratory Control Spike Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample ID          | LCS-113478                | Matrix      | Water            |
| Filename               | F240623A_03               | Dilution    | NA               |
| Total Amount Extracted | 958 mL                    | Extracted   | 06/20/2024 15:30 |
| ICAL ID                | F240604                   | Analyzed    | 06/23/2024 11:31 |
| CCal Filename(s)       | F240623A_02 & F240623A_18 | Injected By | JRH              |
| Method Blank ID        | BLANK-113477              |             |                  |

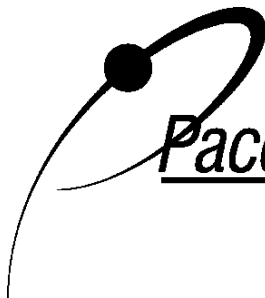
| Native Isomers      | Qs (ng) | Qm (ng) | % Rec. | Internal Standards      | ng's Added | Percent Recovery |
|---------------------|---------|---------|--------|-------------------------|------------|------------------|
| 2,3,7,8-TCDF        | 0.20    | 0.20    | 100    | 2,3,7,8-TCDF-13C        | 2.0        | 55               |
| Total TCDF          |         |         |        | 2,3,7,8-TCDD-13C        | 2.0        | 47               |
|                     |         |         |        | 1,2,3,7,8-PeCDF-13C     | 2.0        | 50               |
| 2,3,7,8-TCDD        | 0.20    | 0.22    | 112    | 2,3,4,7,8-PeCDF-13C     | 2.0        | 54               |
| Total TCDD          |         |         |        | 1,2,3,7,8-PeCDD-13C     | 2.0        | 55               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDF-13C   | 2.0        | 52               |
| 1,2,3,7,8-PeCDF     | 1.0     | 1.1     | 113    | 1,2,3,6,7,8-HxCDF-13C   | 2.0        | 49               |
| 2,3,4,7,8-PeCDF     | 1.0     | 1.1     | 108    | 2,3,4,6,7,8-HxCDF-13C   | 2.0        | 50               |
| Total PeCDF         |         |         |        | 1,2,3,7,8,9-HxCDF-13C   | 2.0        | 50               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDD-13C   | 2.0        | 44               |
| 1,2,3,7,8-PeCDD     | 1.0     | 0.95    | 95     | 1,2,3,6,7,8-HxCDD-13C   | 2.0        | 46               |
| Total PeCDD         |         |         |        | 1,2,3,4,6,7,8-HpCDF-13C | 2.0        | 43               |
|                     |         |         |        | 1,2,3,4,7,8,9-HpCDF-13C | 2.0        | 45               |
| 1,2,3,4,7,8-HxCDF   | 1.0     | 1.0     | 103    | 1,2,3,4,6,7,8-HpCDD-13C | 2.0        | 45               |
| 1,2,3,6,7,8-HxCDF   | 1.0     | 1.1     | 107    | OCDD-13C                | 4.0        | 34 R             |
| 2,3,4,6,7,8-HxCDF   | 1.0     | 1.1     | 110    |                         |            |                  |
| 1,2,3,7,8,9-HxCDF   | 1.0     | 1.0     | 105    | 1,2,3,4-TCDD-13C        | 2.0        | NA               |
| Total HxCDF         |         |         |        | 1,2,3,7,8,9-HxCDD-13C   | 2.0        | NA               |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,7,8-HxCDD   | 1.0     | 1.2     | 118    | 2,3,7,8-TCDD-37Cl4      | 0.20       | 87               |
| 1,2,3,6,7,8-HxCDD   | 1.0     | 1.1     | 110    |                         |            |                  |
| 1,2,3,7,8,9-HxCDD   | 1.0     | 1.3     | 125    |                         |            |                  |
| Total HxCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDF | 1.0     | 1.0     | 104    |                         |            |                  |
| 1,2,3,4,7,8,9-HpCDF | 1.0     | 0.92    | 92     |                         |            |                  |
| Total HpCDF         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDD | 1.0     | 0.94    | 94     |                         |            |                  |
| Total HpCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| OCDF                | 2.0     | 2.3     | 116    |                         |            |                  |
| OCDD                | 2.0     | 2.3     | 113    |                         |            |                  |

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
R = Recovery outside of target range

Y = RF averaging used in calculations  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Laboratory Control Spike Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample ID          | LCSD-113479               | Matrix      | Water            |
| Filename               | F240623A_04               | Dilution    | NA               |
| Total Amount Extracted | 959 mL                    | Extracted   | 06/20/2024 15:30 |
| ICAL ID                | F240604                   | Analyzed    | 06/23/2024 12:16 |
| CCal Filename(s)       | F240623A_02 & F240623A_18 | Injected By | JRH              |
| Method Blank ID        | BLANK-113477              |             |                  |

| Native Isomers      | Qs (ng) | Qm (ng) | % Rec. | Internal Standards      | ng's Added | Percent Recovery |
|---------------------|---------|---------|--------|-------------------------|------------|------------------|
| 2,3,7,8-TCDF        | 0.20    | 0.21    | 105    | 2,3,7,8-TCDF-13C        | 2.0        | 58               |
| Total TCDF          |         |         |        | 2,3,7,8-TCDD-13C        | 2.0        | 50               |
|                     |         |         |        | 1,2,3,7,8-PeCDF-13C     | 2.0        | 57               |
| 2,3,7,8-TCDD        | 0.20    | 0.21    | 107    | 2,3,4,7,8-PeCDF-13C     | 2.0        | 55               |
| Total TCDD          |         |         |        | 1,2,3,7,8-PeCDD-13C     | 2.0        | 62               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDF-13C   | 2.0        | 60               |
| 1,2,3,7,8-PeCDF     | 1.0     | 1.2     | 117    | 1,2,3,6,7,8-HxCDF-13C   | 2.0        | 59               |
| 2,3,4,7,8-PeCDF     | 1.0     | 1.1     | 111    | 2,3,4,6,7,8-HxCDF-13C   | 2.0        | 56               |
| Total PeCDF         |         |         |        | 1,2,3,7,8,9-HxCDF-13C   | 2.0        | 58               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDD-13C   | 2.0        | 50               |
| 1,2,3,7,8-PeCDD     | 1.0     | 0.99    | 99     | 1,2,3,6,7,8-HxCDD-13C   | 2.0        | 53               |
| Total PeCDD         |         |         |        | 1,2,3,4,6,7,8-HpCDF-13C | 2.0        | 45               |
|                     |         |         |        | 1,2,3,4,7,8,9-HpCDF-13C | 2.0        | 43               |
| 1,2,3,4,7,8-HxCDF   | 1.0     | 1.1     | 113    | 1,2,3,4,6,7,8-HpCDD-13C | 2.0        | 47               |
| 1,2,3,6,7,8-HxCDF   | 1.0     | 1.1     | 109    | OCDD-13C                | 4.0        | 38 R             |
| 2,3,4,6,7,8-HxCDF   | 1.0     | 1.1     | 112    |                         |            |                  |
| 1,2,3,7,8,9-HxCDF   | 1.0     | 1.1     | 112    | 1,2,3,4-TCDD-13C        | 2.0        | NA               |
| Total HxCDF         |         |         |        | 1,2,3,7,8,9-HxCDD-13C   | 2.0        | NA               |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,7,8-HxCDD   | 1.0     | 1.2     | 121    | 2,3,7,8-TCDD-37Cl4      | 0.20       | 72               |
| 1,2,3,6,7,8-HxCDD   | 1.0     | 1.1     | 110    |                         |            |                  |
| 1,2,3,7,8,9-HxCDD   | 1.0     | 1.2     | 122    |                         |            |                  |
| Total HxCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDF | 1.0     | 1.1     | 106    |                         |            |                  |
| 1,2,3,4,7,8,9-HpCDF | 1.0     | 0.99    | 99     |                         |            |                  |
| Total HpCDF         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDD | 1.0     | 0.96    | 96     |                         |            |                  |
| Total HpCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| OCDF                | 2.0     | 2.5     | 125    |                         |            |                  |
| OCDD                | 2.0     | 2.4     | 118    |                         |            |                  |

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
R = Recovery outside of target range

Y = RF averaging used in calculations  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

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## Method 8290

### Spike Recovery Relative Percent Difference (RPD) Results

Client Weck Laboratories Inc

Spike 1 ID LCS-113478  
Spike 1 Filename F240623A\_03

Spike 2 ID LCSD-113479  
Spike 2 Filename F240623A\_04

| Compound            | Spike 1<br>%REC | Spike 2<br>%REC | %RPD |
|---------------------|-----------------|-----------------|------|
| 2,3,7,8-TCDF        | 100             | 105             | 4.9  |
| 2,3,7,8-TCDD        | 112             | 107             | 4.6  |
| 1,2,3,7,8-PeCDF     | 113             | 117             | 3.5  |
| 2,3,4,7,8-PeCDF     | 108             | 111             | 2.7  |
| 1,2,3,7,8-PeCDD     | 95              | 99              | 4.1  |
| 1,2,3,4,7,8-HxCDF   | 103             | 113             | 9.3  |
| 1,2,3,6,7,8-HxCDF   | 107             | 109             | 1.9  |
| 2,3,4,6,7,8-HxCDF   | 110             | 112             | 1.8  |
| 1,2,3,7,8,9-HxCDF   | 105             | 112             | 6.5  |
| 1,2,3,4,7,8-HxCDD   | 118             | 121             | 2.5  |
| 1,2,3,6,7,8-HxCDD   | 110             | 110             | 0.0  |
| 1,2,3,7,8,9-HxCDD   | 125             | 122             | 2.4  |
| 1,2,3,4,6,7,8-HpCDF | 104             | 106             | 1.9  |
| 1,2,3,4,7,8,9-HpCDF | 92              | 99              | 7.3  |
| 1,2,3,4,6,7,8-HpCDD | 94              | 96              | 2.1  |
| OCDF                | 116             | 125             | 7.5  |
| OCDD                | 113             | 118             | 4.3  |

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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# ENCINA WASTEWATER AUTHORITY

A Public Agency

6200 Avenida Encinas  
Carlsbad, CA 92011-1095  
Telephone (760) 438-3941  
FAX (760) 438-3861 (Plant)  
(760) 431-7493 (Admin)

## SAMPLE RESULTS REPORT

Report Date : 12/26/2024

|                                                                                                |                     |                                    |               |                  |                         |
|------------------------------------------------------------------------------------------------|---------------------|------------------------------------|---------------|------------------|-------------------------|
| <b>REPORT TO</b>                                                                               |                     | <b>ELAP Certification No. 1441</b> |               | <b>240410002</b> |                         |
| Vallecitos Water District<br>201 Vallecitos de Oro<br>San Marcos, CA 92069<br>Attn: Matt Wiese |                     |                                    |               |                  |                         |
| <b>Sample ID</b>                                                                               | <b>Sample Point</b> | <b>Analyte Name</b>                | <b>Result</b> | <b>Units</b>     | <b>Method Reference</b> |

AB57245

Meadowlark Influent

Collected: 03/07/2024

Time: 07:00

|                   |               |            |
|-------------------|---------------|------------|
| Zinc by ICP       | 0.158 mg/L    | EPA 200.7  |
| Thallium by ICP   | <0.016 mg/L   | EPA 200.7  |
| Silver by ICP     | <0.032 mg/L   | EPA 200.7  |
| Selenium by ICP   | <0.02 mg/L    | EPA 200.7  |
| Nickel by ICP     | <0.012 mg/L   | EPA 200.7  |
| Molybdenum by ICP | <0.012 mg/L   | EPA 200.7  |
| Mercury           | 0.00014J mg/L | EPA 245.1  |
| Lead by ICP       | <0.016 mg/L   | EPA 200.7  |
| Cyanide, Total    | <0.005 mg/L   | SM4500CN-E |
| Copper by ICP     | 0.102 mg/L    | EPA 200.7  |
| Chromium by ICP   | <0.01 mg/L    | EPA 200.7  |
| Cadmium by ICP    | <0.012 mg/L   | EPA 200.7  |
| Arsenic by ICP    | <0.02 mg/L    | EPA 200.7  |
| Antimony by ICP   | <0.024 mg/L   | EPA 200.7  |

Certified By:

*Rachael Morgan*

Date:

12-26-24

Rachael Morgan, Laboratory Manager



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Rachael Morgan  
Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, California 92011

Generated 3/21/2024 7:18:11 AM

## JOB DESCRIPTION

2024 Annual Meadowlark Influent Priority Pollutant

## JOB NUMBER

570-175631-1

## Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

## Authorization



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Authorized for release by  
Janice Hsu, Project Manager I  
[Janice.Hsu@et.eurofinsus.com](mailto:Janice.Hsu@et.eurofinsus.com)  
(657)210-6359

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## Definitions/Glossary

Client: Encina Wastewater Authority

Job ID: 570-175631-1

Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

### Qualifiers

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Glossary

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

## Case Narrative

Client: Encina Wastewater Authority  
Project: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

**Job ID: 570-175631-1**

**Eurofins Calscience**

### **Job Narrative 570-175631-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

#### **Receipt**

The sample was received on 3/7/2024 6:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

#### **Metals**

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

#### **General Chemistry**

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

Eurofins Calscience

Detection Summary

Client: Encina Wastewater Authority

Job ID: 570-175631-1

Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Client Sample ID: Meadowlark Influent

Lab Sample ID: 570-175631-1

| Analyte | Result  | Qualifier | RL      | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|---------|---------|-----------|---------|---------|------|---------|---|--------|-----------|
| Mercury | 0.00014 | J         | 0.00020 | 0.00012 | mg/L | 1       |   | 245.1  | Total/NA  |

This Detection Summary does not include radiochemical test results.



Client Sample Results

Client: Encina Wastewater Authority

Job ID: 570-175631-1

Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Method: EPA 245.1 - Mercury (CVAA)

|                                       |         |           |         |         |                             |   |                |                |         |
|---------------------------------------|---------|-----------|---------|---------|-----------------------------|---|----------------|----------------|---------|
| Client Sample ID: Meadowlark Influent |         |           |         |         | Lab Sample ID: 570-175631-1 |   |                |                |         |
| Date Collected: 03/07/24 07:00        |         |           |         |         | Matrix: Water               |   |                |                |         |
| Date Received: 03/07/24 18:20         |         |           |         |         |                             |   |                |                |         |
| Analyte                               | Result  | Qualifier | RL      | MDL     | Unit                        | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                               | 0.00014 | J         | 0.00020 | 0.00012 | mg/L                        |   | 03/11/24 10:58 | 03/12/24 14:49 | 1       |

Client Sample Results

Client: Encina Wastewater Authority

Job ID: 570-175631-1

Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

General Chemistry

|                                       |        |           |     |     |                             |   |          |                |         |
|---------------------------------------|--------|-----------|-----|-----|-----------------------------|---|----------|----------------|---------|
| Client Sample ID: Meadowlark Influent |        |           |     |     | Lab Sample ID: 570-175631-1 |   |          |                |         |
| Date Collected: 03/07/24 07:00        |        |           |     |     | Matrix: Water               |   |          |                |         |
| Date Received: 03/07/24 18:20         |        |           |     |     |                             |   |          |                |         |
| Analyte                               | Result | Qualifier | RL  | MDL | Unit                        | D | Prepared | Analyzed       | Dil Fac |
| Cyanide, Total (EPA Kelada 01)        | ND     |           | 5.0 | 2.5 | ug/L                        |   |          | 03/19/24 14:10 | 1       |

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

## Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-418822/1-A  
Matrix: Water  
Analysis Batch: 419410

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | MB<br>Result | MB<br>Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND           |                 | 0.00020 | 0.00012 | mg/L |   | 03/11/24 10:58 | 03/12/24 14:07 | 1       |

Lab Sample ID: LCS 570-418822/2-A  
Matrix: Water  
Analysis Batch: 419480

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|----------------|
| Mercury | 0.00800        | 0.00776       |                  | mg/L |   | 97   | 85 - 115       |

Lab Sample ID: LCSD 570-418822/3-A  
Matrix: Water  
Analysis Batch: 419480

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| Mercury | 0.00800        | 0.00762        |                   | mg/L |   | 95   | 85 - 115       | 2   | 10           |

Lab Sample ID: 570-175227-B-3-C MS  
Matrix: Water  
Analysis Batch: 419410

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Mercury | ND               |                     | 0.00800        | 0.00776      |                 | mg/L |   | 97   | 85 - 115       |

Lab Sample ID: 570-175227-B-3-D MSD  
Matrix: Water  
Analysis Batch: 419410

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Mercury | ND               |                     | 0.00800        | 0.00797       |                  | mg/L |   | 100  | 85 - 115       | 3   | 10           |

## Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 570-422078/11  
Matrix: Water  
Analysis Batch: 422078

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

| Analyte        | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Cyanide, Total | ND           |                 | 5.0 | 2.5 | ug/L |   |          | 03/19/24 13:46 | 1       |

Lab Sample ID: LCS 570-422078/12  
Matrix: Water  
Analysis Batch: 422078

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

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|----------------|
| Cyanide, Total | 250            | 243           |                  | ug/L |   | 97   | 90 - 110       |

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

## Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate (Continued)

Lab Sample ID: LCSD 570-422078/13

Matrix: Water

Analysis Batch: 422078

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 |
|----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 250         | 238         |                | ug/L |   | 95   | 90 - 110    | 2   | 20        |

Lab Sample ID: MRL 570-422078/10

Matrix: Water

Analysis Batch: 422078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |  |  |
|----------------|-------------|------------|---------------|------|---|------|-------------|--|--|
| Cyanide, Total | 5.00        | 5.50       |               | ug/L |   | 110  | 50 - 150    |  |  |

Lab Sample ID: 570-175631-1 MS

Matrix: Water

Analysis Batch: 422078

Client Sample ID: Meadowlark Influent

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |  |  |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--|--|
| Cyanide, Total | ND            |                  | 250         | 232       |              | ug/L |   | 93   | 70 - 130    |  |  |

Lab Sample ID: 570-175631-1 MSD

Matrix: Water

Analysis Batch: 422078

Client Sample ID: Meadowlark Influent

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | ND            |                  | 250         | 235        |               | ug/L |   | 94   | 70 - 130    | 1   | 30        |

## QC Association Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

### Metals

#### Prep Batch: 418822

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 570-175631-1         | Meadowlark Influent    | Total/NA  | Water  | 245.1  |            |
| MB 570-418822/1-A    | Method Blank           | Total/NA  | Water  | 245.1  |            |
| LCS 570-418822/2-A   | Lab Control Sample     | Total/NA  | Water  | 245.1  |            |
| LCSD 570-418822/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 245.1  |            |
| 570-175227-B-3-C MS  | Matrix Spike           | Total/NA  | Water  | 245.1  |            |
| 570-175227-B-3-D MSD | Matrix Spike Duplicate | Total/NA  | Water  | 245.1  |            |

#### Analysis Batch: 419410

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 570-175631-1         | Meadowlark Influent    | Total/NA  | Water  | 245.1  | 418822     |
| MB 570-418822/1-A    | Method Blank           | Total/NA  | Water  | 245.1  | 418822     |
| 570-175227-B-3-C MS  | Matrix Spike           | Total/NA  | Water  | 245.1  | 418822     |
| 570-175227-B-3-D MSD | Matrix Spike Duplicate | Total/NA  | Water  | 245.1  | 418822     |

#### Analysis Batch: 419480

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 570-418822/2-A  | Lab Control Sample     | Total/NA  | Water  | 245.1  | 418822     |
| LCSD 570-418822/3-A | Lab Control Sample Dup | Total/NA  | Water  | 245.1  | 418822     |

### General Chemistry

#### Analysis Batch: 422078

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 570-175631-1       | Meadowlark Influent    | Total/NA  | Water  | Kelada 01 |            |
| MB 570-422078/11   | Method Blank           | Total/NA  | Water  | Kelada 01 |            |
| LCS 570-422078/12  | Lab Control Sample     | Total/NA  | Water  | Kelada 01 |            |
| LCSD 570-422078/13 | Lab Control Sample Dup | Total/NA  | Water  | Kelada 01 |            |
| MRL 570-422078/10  | Lab Control Sample     | Total/NA  | Water  | Kelada 01 |            |
| 570-175631-1 MS    | Meadowlark Influent    | Total/NA  | Water  | Kelada 01 |            |
| 570-175631-1 MSD   | Meadowlark Influent    | Total/NA  | Water  | Kelada 01 |            |

Lab Chronicle

Client: Encina Wastewater Authority

Job ID: 570-175631-1

Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Client Sample ID: Meadowlark Influent

Lab Sample ID: 570-175631-1

Date Collected: 03/07/24 07:00

Matrix: Water

Date Received: 03/07/24 18:20

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA  | Prep       | 245.1                   |     |            | 25 mL          | 50 mL        | 418822       | 03/11/24 10:58       | VCN7    | EET CAL 4 |
| Total/NA  | Analysis   | 245.1                   |     | 1          |                |              | 419410       | 03/12/24 14:49       | ECX6    | EET CAL 4 |
|           |            | Instrument ID: HG9      |     |            |                |              |              |                      |         |           |
| Total/NA  | Analysis   | Kelada 01               |     | 1          | 8 mL           | 8 mL         | 422078       | 03/19/24 14:10       | GG0B    | EET CAL 4 |
|           |            | Instrument ID: LACHAT01 |     |            |                |              |              |                      |         |           |

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

| Authority  | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| California | State   | 3082                  | 07-31-24        |
| Oregon     | NELAP   | 4175                  | 02-03-25        |

|    |
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| 14 |

# Method Summary

Client: Encina Wastewater Authority

Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

| Method    | Method Description                               | Protocol | Laboratory |
|-----------|--------------------------------------------------|----------|------------|
| 245.1     | Mercury (CVAA)                                   | EPA      | EET CAL 4  |
| Kelada 01 | Cyanide, Total, Acid Dissociable and Thiocyanate | EPA      | EET CAL 4  |
| 245.1     | Preparation, Mercury                             | EPA      | EET CAL 4  |

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Influent Priority Pollutant

Job ID: 570-175631-1

| Lab Sample ID | Client Sample ID    | Matrix | Collected      | Received       |
|---------------|---------------------|--------|----------------|----------------|
| 570-175631-1  | Meadowlark Influent | Water  | 03/07/24 07:00 | 03/07/24 18:20 |

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- 14

[illegible]

## Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-175631-1

Login Number: 175631

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

**Work Orders:** 4C08056

**Report Date:** 4/29/2024

**Received Date:** 3/8/2024

**Project:** 2024 Annual Meadowlark Influent Priority Pollutant Scan

**Turnaround Time:** Normal

**Phones:** (760) 438-3941

**Fax:**

**P.O. #:**

**Billing Code:**

**Attn:** Rachael Morgan

**Client:** Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006**

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.*

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 3/08/24 with the Chain-of-Custody document. The samples were received in good condition, at 4.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Ryan J. Gasio  
Project Manager



Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Sample Summary

| Sample Name         | Sampled By | Lab ID     | Matrix | Sampled        | Qualifiers |
|---------------------|------------|------------|--------|----------------|------------|
| Meadowlark Influent | CD         | 4C08056-01 | Water  | 03/07/24 07:00 |            |
| Meadowlark Influent | CD         | 4C08056-02 | Water  | 03/07/24 08:39 |            |

## Analyses Accreditation Summary

| Analyte                          | CAS #     | Not By<br>ELAP-CA | Not By<br>NELAP | Not ANAB<br>ISO 17025 |
|----------------------------------|-----------|-------------------|-----------------|-----------------------|
| <b>EPA 608.3 in Water</b>        |           |                   |                 |                       |
| Mirex                            | 2385-85-5 | ⊗                 |                 | ⊗                     |
| 2,4'-DDT                         | 789-02-6  | ⊗                 | ⊗               | ⊗                     |
| 2,4'-DDE                         | 3424-82-6 | ⊗                 | ⊗               | ⊗                     |
| 2,4'-DDD                         | 53-19-0   | ⊗                 | ⊗               | ⊗                     |
| alpha-Chlordane                  | 5103-71-9 | ⊗                 |                 | ⊗                     |
| gamma-Chlordane                  | 5566-34-7 | ⊗                 |                 | ⊗                     |
| <b>EPA 624.1 in Water</b>        |           |                   |                 |                       |
| Chloromethane                    | 74-87-3   |                   | ⊗               |                       |
| Bromomethane                     | 74-83-9   |                   | ⊗               |                       |
| Chloroethane                     | 75-00-3   |                   | ⊗               |                       |
| 2-Hexanone                       | 591-78-6  | ⊗                 |                 | ⊗                     |
| 2-Butanone                       | 78-93-3   | ⊗                 |                 |                       |
| Methyl tert-butyl ether (MTBE)   | 1634-04-4 | ⊗                 |                 | ⊗                     |
| Carbon Disulfide                 | 75-15-0   | ⊗                 |                 | ⊗                     |
| cis-1,2-Dichloroethene           | 156-59-2  | ⊗                 |                 | ⊗                     |
| 4-Bromofluorobenzene             | 460-00-4  |                   |                 | ⊗                     |
| <b>EPA 625.1 in Water</b>        |           |                   |                 |                       |
| N-Nitrosodimethylamine           | 62-75-9   | ⊗                 |                 | ⊗                     |
| 1,3-Dichlorobenzene              | 541-73-1  | ⊗                 |                 | ⊗                     |
| 1,4-Dichlorobenzene              | 106-46-7  | ⊗                 |                 | ⊗                     |
| 1,2-Dichlorobenzene              | 95-50-1   | ⊗                 |                 | ⊗                     |
| Bis(2-chloroisopropyl)ether      | 108-60-1  |                   | ⊗               |                       |
| N-Nitrosodiphenylamine           | 86-30-6   | ⊗                 |                 | ⊗                     |
| 1,2-Diphenylhydrazine/Azobenzene | 122-66-7  | ⊗                 |                 | ⊗                     |
| 3,3'-Dichlorobenzidine           | 91-94-1   |                   |                 | ⊗                     |
| 2,4,6-Tribromophenol             | 118-79-6  |                   | ⊗               |                       |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Sample Results

Sample: Meadowlark Influent

Sampled: 03/07/24 7:00 by CD

4C08056-01 (Water)

| Analyte                                            | Result                             | MRL                             | Units | Dil                 | Analyzed | Qualifier |
|----------------------------------------------------|------------------------------------|---------------------------------|-------|---------------------|----------|-----------|
| <b>Acid and Base/Neutral Extractables by GC/MS</b> |                                    |                                 |       |                     |          |           |
| <b>Method:</b> EPA 625.1                           |                                    | <b>Instr:</b> GCMS06            |       |                     |          |           |
| <b>Batch ID:</b> W4C0805                           | <b>Preparation:</b> EPA 625/L-L SF | <b>Prepared:</b> 03/11/24 12:10 |       | <b>Analyst:</b> rmr |          |           |
| 1,2,4-Trichlorobenzene                             | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 1,2-Dichlorobenzene                                | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 1,2-Diphenylhydrazine/Azobenzene                   | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 1,3-Dichlorobenzene                                | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 1,4-Dichlorobenzene                                | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2,4,6-Trichlorophenol                              | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2,4-Dichlorophenol                                 | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2,4-Dimethylphenol                                 | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2,4-Dinitrophenol                                  | ND                                 | 200                             | ug/l  | 20                  | 03/21/24 | M-04      |
| 2,4-Dinitrotoluene                                 | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2,6-Dinitrotoluene                                 | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2-Chloronaphthalene                                | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2-Chlorophenol                                     | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 2-Methyl-4,6-dinitrophenol                         | ND                                 | 100                             | ug/l  | 20                  | 03/21/24 | M-04      |
| 2-Nitrophenol                                      | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 3,3'-Dichlorobenzidine                             | ND                                 | 100                             | ug/l  | 20                  | 03/21/24 | M-04      |
| 4-Bromophenyl phenyl ether                         | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 4-Chloro-3-methylphenol                            | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 4-Chlorophenyl phenyl ether                        | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| 4-Nitrophenol                                      | ND                                 | 100                             | ug/l  | 20                  | 03/21/24 | M-04      |
| Acenaphthene                                       | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Acenaphthylene                                     | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Anthracene                                         | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Benzidine                                          | ND                                 | 200                             | ug/l  | 20                  | 03/21/24 | M-04      |
| Benzo (a) anthracene                               | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Benzo (a) pyrene                                   | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Benzo (b) fluoranthene                             | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Benzo (g,h,i) perylene                             | ND                                 | 40                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Benzo (k) fluoranthene                             | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Bis(2-chloroethoxy)methane                         | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Bis(2-chloroethyl)ether                            | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Bis(2-chloroisopropyl)ether                        | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |
| Bis(2-ethylhexyl)phthalate                         | ND                                 | 100                             | ug/l  | 20                  | 03/21/24 | M-04      |
| Butyl benzyl phthalate                             | ND                                 | 20                              | ug/l  | 20                  | 03/21/24 | M-04      |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Influent Priority Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Sample Results

(Continued)

Sample: Meadowlark Influent

Sampled: 03/07/24 7:00 by CD

4C08056-01 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Acid and Base/Neutral Extractables by GC/MS (Continued)

**Method:** EPA 625.1

**Instr:** GCMS06

**Batch ID:** W4C0805

**Preparation:** EPA 625/L-L SF

**Prepared:** 03/11/24 12:10

**Analyst:** rmr

|                           |    |     |      |    |          |      |
|---------------------------|----|-----|------|----|----------|------|
| Chrysene                  | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Dibenzo (a,h) anthracene  | ND | 40  | ug/l | 20 | 03/21/24 | M-04 |
| Diethyl phthalate         | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Dimethyl phthalate        | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Di-n-butyl phthalate      | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Di-n-octyl phthalate      | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Fluoranthene              | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Fluorene                  | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Hexachlorobenzene         | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Hexachlorobutadiene       | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Hexachlorocyclopentadiene | ND | 100 | ug/l | 20 | 03/21/24 | M-04 |
| Hexachloroethane          | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Indeno (1,2,3-cd) pyrene  | ND | 40  | ug/l | 20 | 03/21/24 | M-04 |
| Isophorone                | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Naphthalene               | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Nitrobenzene              | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| N-Nitrosodimethylamine    | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| N-Nitrosodi-n-propylamine | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| N-Nitrosodiphenylamine    | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Pentachlorophenol         | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Phenanthrene              | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Phenol                    | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |
| Pyrene                    | ND | 20  | ug/l | 20 | 03/21/24 | M-04 |

### Surrogate(s)

|                      |     |            |        |          |      |
|----------------------|-----|------------|--------|----------|------|
| 2,4,6-Tribromophenol | 51% | Conc: 19.7 | 25-120 | 03/21/24 |      |
| 2-Fluorobiphenyl     | 43% | Conc: 8.20 | 22-120 | 03/21/24 |      |
| 2-Fluorophenol       | 28% | Conc: 10.6 | 17-120 | 03/21/24 |      |
| Nitrobenzene-d5      | 43% | Conc: 8.28 | 47-120 | 03/21/24 | S-GC |
| Phenol-d5            | 18% | Conc: 6.80 | 12-120 | 03/21/24 |      |
| Terphenyl-d14        | 55% | Conc: 10.5 | 44-129 | 03/21/24 |      |

### Chlorinated Pesticides and/or PCBs by GC/ECD

**Method:** EPA 608.3

**Instr:** GC07

**Batch ID:** W4C0808

**Preparation:** EPA 608/L-L SF

**Prepared:** 03/11/24 12:15

**Analyst:** ECS

|          |    |     |      |    |          |      |
|----------|----|-----|------|----|----------|------|
| 4,4'-DDD | ND | 1.0 | ug/l | 20 | 04/11/24 | M-04 |
| 4,4'-DDE | ND | 1.0 | ug/l | 20 | 04/11/24 | M-04 |

4C08056

Page 4 of 24

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Sample Results

(Continued)

Sample: Meadowlark Influent

Sampled: 03/07/24 7:00 by CD

4C08056-01 (Water)

(Continued)

| Analyte                                                         | Result                             | MRL                             | Units | Dil                 | Analyzed | Qualifier |
|-----------------------------------------------------------------|------------------------------------|---------------------------------|-------|---------------------|----------|-----------|
| <b>Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)</b> |                                    |                                 |       |                     |          |           |
| <b>Method:</b> EPA 608.3                                        |                                    | <b>Instr:</b> GC07              |       |                     |          |           |
| <b>Batch ID:</b> W4C0808                                        | <b>Preparation:</b> EPA 608/L-L SF | <b>Prepared:</b> 03/11/24 12:15 |       | <b>Analyst:</b> ECS |          |           |
| 4,4'-DDT                                                        | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Aldrin                                                          | ND                                 | 0.10                            | ug/l  | 20                  | 04/11/24 | M-04      |
| alpha-BHC                                                       | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1016                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1221                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1232                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1242                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1248                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1254                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| Aroclor 1260                                                    | ND                                 | 10                              | ug/l  | 20                  | 04/11/24 | M-04      |
| beta-BHC                                                        | ND                                 | 0.10                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Chlordane (tech)                                                | ND                                 | 2.0                             | ug/l  | 20                  | 04/11/24 | M-04      |
| delta-BHC                                                       | ND                                 | 0.10                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Dieldrin                                                        | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Endosulfan I                                                    | ND                                 | 0.40                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Endosulfan II                                                   | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Endosulfan sulfate                                              | ND                                 | 1.0                             | ug/l  | 20                  | 04/11/24 | M-04      |
| Endrin                                                          | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Endrin aldehyde                                                 | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| gamma-BHC (Lindane)                                             | ND                                 | 0.40                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Heptachlor                                                      | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Heptachlor epoxide                                              | ND                                 | 0.20                            | ug/l  | 20                  | 04/11/24 | M-04      |
| Toxaphene                                                       | ND                                 | 20                              | ug/l  | 20                  | 04/11/24 | M-04      |
| <i>Surrogate(s)</i>                                             |                                    |                                 |       |                     |          |           |
| Decachlorobiphenyl                                              | 70% Conc: 0.0714                   | 33-133                          |       |                     | 04/11/24 |           |
| Tetrachloro-meta-xylene                                         | 44% Conc: 0.0453                   | 32-130                          |       |                     | 04/11/24 |           |



Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Sample Results

(Continued)

Sample: Meadowlark Influent

Sampled: 03/07/24 8:39 by CD

4C08056-02 (Water)

| Analyte                                                | Result                        | MRL                             | Units | Dil                 | Analyzed | Qualifier |
|--------------------------------------------------------|-------------------------------|---------------------------------|-------|---------------------|----------|-----------|
| <b>Volatile Organic Compounds by P&amp;T and GC/MS</b> |                               |                                 |       |                     |          |           |
| <b>Method:</b> EPA 624.1                               |                               | <b>Instr:</b> GCMS21            |       |                     |          |           |
| <b>Batch ID:</b> W4C0680                               | <b>Preparation:</b> EPA 5030B | <b>Prepared:</b> 03/08/24 11:28 |       | <b>Analyst:</b> ADM |          |           |
| 1,1,1-Trichloroethane                                  | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 1,1,2,2-Tetrachloroethane                              | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 1,1,2-Trichloroethane                                  | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 1,1-Dichloroethane                                     | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 1,1-Dichloroethene                                     | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 1,2-Dichloroethane                                     | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 1,2-Dichloropropane                                    | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 2-Butanone                                             | ND                            | 100                             | ug/l  | 20                  | 03/08/24 | M-05      |
| 2-Chloroethyl vinyl ether                              | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| 2-Hexanone                                             | ND                            | 100                             | ug/l  | 20                  | 03/08/24 | M-05      |
| 4-Methyl-2-pentanone                                   | ND                            | 100                             | ug/l  | 20                  | 03/08/24 | M-05      |
| Acetone                                                | ND                            | 100                             | ug/l  | 20                  | 03/08/24 | M-05      |
| Acrolein                                               | ND                            | 100                             | ug/l  | 20                  | 03/08/24 | M-05      |
| Acrylonitrile                                          | ND                            | 40                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Benzene                                                | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Bromodichloromethane                                   | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Bromoform                                              | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Bromomethane                                           | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Carbon Disulfide                                       | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Carbon tetrachloride                                   | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Chlorobenzene                                          | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Chloroethane                                           | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Chloroform                                             | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Chloromethane                                          | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| cis-1,3-Dichloropropene                                | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Dibromochloromethane                                   | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Dichlorodifluoromethane (Freon 12)                     | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Ethylbenzene                                           | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| m-Dichlorobenzene                                      | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Methyl tert-butyl ether (MTBE)                         | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Methylene chloride                                     | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| o-Dichlorobenzene                                      | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| p-Dichlorobenzene                                      | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |
| Tetrachloroethene                                      | ND                            | 20                              | ug/l  | 20                  | 03/08/24 | M-05      |

## Sample Results

(Continued)

Sample: Meadowlark Influent

Sampled: 03/07/24 8:39 by CD

4C08056-02 (Water)

(Continued)

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------|-----------|
|---------|--------|-----|-------|-----|----------|-----------|

### Volatile Organic Compounds by P&T and GC/MS (Continued)

**Method:** EPA 624.1

**Instr:** GCMS21

**Batch ID:** W4C0680

**Preparation:** EPA 5030B

**Prepared:** 03/08/24 11:28

**Analyst:** ADM

|                           |    |    |      |    |          |      |
|---------------------------|----|----|------|----|----------|------|
| Toluene                   | ND | 20 | ug/l | 20 | 03/08/24 | M-05 |
| trans-1,2-Dichloroethene  | ND | 20 | ug/l | 20 | 03/08/24 | M-05 |
| trans-1,3-Dichloropropene | ND | 20 | ug/l | 20 | 03/08/24 | M-05 |
| Trichloroethene           | ND | 20 | ug/l | 20 | 03/08/24 | M-05 |
| Trichlorofluoromethane    | ND | 20 | ug/l | 20 | 03/08/24 | M-05 |
| Vinyl chloride            | ND | 20 | ug/l | 20 | 03/08/24 | M-05 |

### Surrogate(s)

|                       |      |            |        |          |
|-----------------------|------|------------|--------|----------|
| 1,2-Dichloroethane-d4 | 102% | Conc: 50.9 | 82-125 | 03/08/24 |
| 4-Bromofluorobenzene  | 98%  | Conc: 48.9 | 88-108 | 03/08/24 |
| Toluene-d8            | 101% | Conc: 50.5 | 92-112 | 03/08/24 |

Encina Wastewater Authority  
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**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Sample Results PACE-MN

Sample: Meadowlark Influent  
4C08056-01 (Water)

Sampled: 03/07/24 7:00 by CD

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

**Method:** SW8290 **Batch ID:** 37218 **Prepared:** 03/13/24 11:25 **Analyst:** SMT

|                     |    |     |      |   |          |
|---------------------|----|-----|------|---|----------|
| 1,2,3,4,6,7,8-HpCDD | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,6,7,8-HpCDF | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,7,8,9-HpCDF | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,7,8-HxCDD   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,7,8-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,6,7,8-HxCDD   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,6,7,8-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8,9-HxCDD   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8,9-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8-PeCDD     | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8-PeCDF     | ND | 48  | pg/L | 1 | 03/18/24 |
| 2,3,4,6,7,8-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 2,3,4,7,8-PeCDF     | ND | 48  | pg/L | 1 | 03/18/24 |
| 2,3,7,8-TCDD        | ND | 9.5 | pg/L | 1 | 03/18/24 |
| 2,3,7,8-TCDF        | ND | 9.5 | pg/L | 1 | 03/18/24 |
| OCDD                | ND | 95  | pg/L | 1 | 03/18/24 |
| OCDF                | ND | 95  | pg/L | 1 | 03/18/24 |
| Total HpCDD         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total HpCDF         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total HxCDD         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total HxCDF         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total PeCDD         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total PeCDF         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total TCDD          | ND | 9.5 | pg/L | 1 | 03/18/24 |
| Total TCDF          | ND | 9.5 | pg/L | 1 | 03/18/24 |

### Surrogate(s)

|                         |     |            |          |   |
|-------------------------|-----|------------|----------|---|
| 1,2,3,4,6,7,8-HpCDD-13C | 39% | 40.0-135.0 | 03/18/24 | P |
| 1,2,3,4,6,7,8-HpCDF-13C | 43% | 40.0-135.0 | 03/18/24 |   |
| 1,2,3,4,7,8,9-HpCDF-13C | 38% | 40.0-135.0 | 03/18/24 | P |
| 1,2,3,4,7,8-HxCDD-13C   | 34% | 40.0-135.0 | 03/18/24 | P |
| 1,2,3,4,7,8-HxCDF-13C   | 40% | 40.0-135.0 | 03/18/24 |   |
| 1,2,3,4-TCDD-13C        | 21% | 40.0-135.0 | 03/18/24 | P |
| 1,2,3,6,7,8-HxCDD-13C   | 41% | 40.0-135.0 | 03/18/24 |   |
| 1,2,3,6,7,8-HxCDF-13C   | 44% | 40.0-135.0 | 03/18/24 |   |
| 1,2,3,7,8,9-HxCDD-13C   | 18% | 40.0-135.0 | 03/18/24 | P |
| 1,2,3,7,8,9-HxCDF-13C   | 43% | 40.0-135.0 | 03/18/24 |   |
| 1,2,3,7,8-PeCDD-13C     | 40% | 40.0-135.0 | 03/18/24 |   |
| 1,2,3,7,8-PeCDF-13C     | 38% | 40.0-135.0 | 03/18/24 | P |

## Sample Results PACE-MN

(Continued)

Sample: Meadowlark Influent  
4C08056-01 (Water)

Sampled: 03/07/24 7:00 by CD  
(Continued)

| Analyte                                                             | Result | MDL | MRL        | Units | Dil | Analyzed | Qualifier |
|---------------------------------------------------------------------|--------|-----|------------|-------|-----|----------|-----------|
| <b>Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)</b> |        |     |            |       |     |          |           |
| 2,3,4,6,7,8-HxCDF-13C                                               | 42%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| 2,3,4,7,8-PeCDF-13C                                                 | 37%    |     | 40.0-135.0 |       |     | 03/18/24 | P         |
| 2,3,7,8-TCDD-13C                                                    | 35%    |     | 40.0-135.0 |       |     | 03/18/24 | P         |
| 2,3,7,8-TCDD-37Cl4                                                  | 72%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| 2,3,7,8-TCDF-13C                                                    | 41%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| OCDD-13C                                                            | 36%    |     | 40.0-135.0 |       |     | 03/18/24 | P         |

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**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Quality Control Results

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

| Analyte                      | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit      | RPD | Limit | Qualifier |
|------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|------------|-----|-------|-----------|
| <b>Batch: 37218 - SW8290</b> |        |     |       |                                              |               |      |            |     |       |           |
| <b>BLK (BLANK-111675)</b>    |        |     |       | <b>Prepared: 03/13/24 Analyzed: 03/16/24</b> |               |      |            |     |       |           |
| 1,2,3,4,6,7,8-HpCDD          | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,4,6,7,8-HpCDF          | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,4,7,8,9-HpCDF          | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,4,7,8-HxCDD            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,4,7,8-HxCDF            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,6,7,8-HxCDD            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,6,7,8-HxCDF            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,7,8,9-HxCDD            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,7,8,9-HxCDF            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,7,8-PeCDD              | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 1,2,3,7,8-PeCDF              | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 2,3,4,6,7,8-HxCDF            | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 2,3,4,7,8-PeCDF              | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| 2,3,7,8-TCDD                 | ND     | 10  | pg/L  |                                              |               |      |            |     |       |           |
| 2,3,7,8-TCDF                 | ND     | 10  | pg/L  |                                              |               |      |            |     |       |           |
| OCDD                         | ND     | 100 | pg/L  |                                              |               |      |            |     |       |           |
| OCDF                         | ND     | 100 | pg/L  |                                              |               |      |            |     |       |           |
| Total HpCDD                  | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| Total HpCDF                  | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| Total HxCDD                  | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| Total HxCDF                  | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| Total PeCDD                  | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| Total PeCDF                  | ND     | 51  | pg/L  |                                              |               |      |            |     |       |           |
| Total TCDD                   | ND     | 10  | pg/L  |                                              |               |      |            |     |       |           |
| Total TCDF                   | ND     | 10  | pg/L  |                                              |               |      |            |     |       |           |
| <i>Surrogate(s)</i>          |        |     |       |                                              |               |      |            |     |       |           |
| 1,2,3,4,6,7,8-HpCDD-13C      | 1200   |     | pg/L  | 2000                                         |               | 58   | 40.0-135.0 |     |       |           |
| 1,2,3,4,6,7,8-HpCDF-13C      | 1300   |     | pg/L  | 2000                                         |               | 62   | 40.0-135.0 |     |       |           |
| 1,2,3,4,7,8,9-HpCDF-13C      | 1100   |     | pg/L  | 2000                                         |               | 54   | 40.0-135.0 |     |       |           |
| 1,2,3,4,7,8-HxCDD-13C        | 1200   |     | pg/L  | 2000                                         |               | 59   | 40.0-135.0 |     |       |           |
| 1,2,3,4,7,8-HxCDF-13C        | 1300   |     | pg/L  | 2000                                         |               | 64   | 40.0-135.0 |     |       |           |
| 1,2,3,6,7,8-HxCDD-13C        | 1300   |     | pg/L  | 2000                                         |               | 66   | 40.0-135.0 |     |       |           |
| 1,2,3,6,7,8-HxCDF-13C        | 1400   |     | pg/L  | 2000                                         |               | 68   | 40.0-135.0 |     |       |           |
| 1,2,3,7,8,9-HxCDF-13C        | 1400   |     | pg/L  | 2000                                         |               | 68   | 40.0-135.0 |     |       |           |
| 1,2,3,7,8-PeCDD-13C          | 1300   |     | pg/L  | 2000                                         |               | 64   | 40.0-135.0 |     |       |           |
| 1,2,3,7,8-PeCDF-13C          | 1400   |     | pg/L  | 2000                                         |               | 67   | 40.0-135.0 |     |       |           |
| 2,3,4,6,7,8-HxCDF-13C        | 1400   |     | pg/L  | 2000                                         |               | 70   | 40.0-135.0 |     |       |           |
| 2,3,4,7,8-PeCDF-13C          | 1300   |     | pg/L  | 2000                                         |               | 65   | 40.0-135.0 |     |       |           |
| 2,3,7,8-TCDD-13C             | 1200   |     | pg/L  | 2000                                         |               | 58   | 40.0-135.0 |     |       |           |

Encina Wastewater Authority  
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**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                           | Result | MRL | Units | Spike Level                           | Source Result | %REC Limits    | RPD | Limit | Qualifier |
|-----------------------------------|--------|-----|-------|---------------------------------------|---------------|----------------|-----|-------|-----------|
| Batch: 37218 - SW8290 (Continued) |        |     |       |                                       |               |                |     |       |           |
| BLK (BLANK-111675)                |        |     |       | Prepared: 03/13/24 Analyzed: 03/16/24 |               |                |     |       |           |
| Surrogate(s)                      |        |     |       |                                       |               |                |     |       |           |
| 2,3,7,8-TCDF-13C                  | 1400   |     | pg/L  | 2000                                  |               | 70 40.0-135.0  |     |       |           |
| OCDD-13C                          | 2200   |     | pg/L  | 4100                                  |               | 55 40.0-135.0  |     |       |           |
| BS (LCS-111676)                   |        |     |       | Prepared: 03/13/24 Analyzed: 03/16/24 |               |                |     |       |           |
| 1,2,3,4,6,7,8-HpCDD               | 1000   | 51  | pg/L  | 1000                                  |               | 99 70.0-130.0  |     |       |           |
| 1,2,3,4,6,7,8-HpCDF               | 1100   | 51  | pg/L  | 1000                                  |               | 107 70.0-130.0 |     |       |           |
| 1,2,3,4,7,8,9-HpCDF               | 1000   | 51  | pg/L  | 1000                                  |               | 102 70.0-130.0 |     |       |           |
| 1,2,3,4,7,8-HxCDD                 | 1200   | 51  | pg/L  | 1000                                  |               | 113 70.0-130.0 |     |       |           |
| 1,2,3,4,7,8-HxCDF                 | 1000   | 51  | pg/L  | 1000                                  |               | 102 70.0-130.0 |     |       |           |
| 1,2,3,6,7,8-HxCDD                 | 1100   | 51  | pg/L  | 1000                                  |               | 104 70.0-130.0 |     |       |           |
| 1,2,3,6,7,8-HxCDF                 | 1000   | 51  | pg/L  | 1000                                  |               | 101 70.0-130.0 |     |       |           |
| 1,2,3,7,8,9-HxCDD                 | 1100   | 51  | pg/L  | 1000                                  |               | 110 70.0-130.0 |     |       |           |
| 1,2,3,7,8,9-HxCDF                 | 1000   | 51  | pg/L  | 1000                                  |               | 100 70.0-130.0 |     |       |           |
| 1,2,3,7,8-PeCDD                   | 950    | 51  | pg/L  | 1000                                  |               | 93 70.0-130.0  |     |       |           |
| 1,2,3,7,8-PeCDF                   | 980    | 51  | pg/L  | 1000                                  |               | 96 70.0-130.0  |     |       |           |
| 2,3,4,6,7,8-HxCDF                 | 1100   | 51  | pg/L  | 1000                                  |               | 109 70.0-130.0 |     |       |           |
| 2,3,4,7,8-PeCDF                   | 990    | 51  | pg/L  | 1000                                  |               | 97 70.0-130.0  |     |       |           |
| 2,3,7,8-TCDD                      | 240    | 10  | pg/L  | 200                                   |               | 117 70.0-130.0 |     |       |           |
| 2,3,7,8-TCDF                      | 200    | 10  | pg/L  | 200                                   |               | 98 70.0-130.0  |     |       |           |
| OCDD                              | 2400   | 100 | pg/L  | 2000                                  |               | 118 70.0-130.0 |     |       |           |
| OCDF                              | 2600   | 100 | pg/L  | 2000                                  |               | 129 70.0-130.0 |     |       |           |
| Surrogate(s)                      |        |     |       |                                       |               |                |     |       |           |
| 1,2,3,4,6,7,8-HpCDD-13C           | 820    |     | pg/L  | 2000                                  |               | 40 40.0-135.0  |     |       |           |
| 1,2,3,4,6,7,8-HpCDF-13C           | 840    |     | pg/L  | 2000                                  |               | 41 40.0-135.0  |     |       |           |
| 1,2,3,4,7,8,9-HpCDF-13C           | 890    |     | pg/L  | 2000                                  |               | 44 40.0-135.0  |     |       |           |
| 1,2,3,4,7,8-HxCDD-13C             | 810    |     | pg/L  | 2000                                  |               | 40 40.0-135.0  |     |       |           |
| 1,2,3,4,7,8-HxCDF-13C             | 880    |     | pg/L  | 2000                                  |               | 43 40.0-135.0  |     |       |           |
| 1,2,3,6,7,8-HxCDD-13C             | 930    |     | pg/L  | 2000                                  |               | 46 40.0-135.0  |     |       |           |
| 1,2,3,6,7,8-HxCDF-13C             | 920    |     | pg/L  | 2000                                  |               | 45 40.0-135.0  |     |       |           |
| 1,2,3,7,8,9-HxCDF-13C             | 970    |     | pg/L  | 2000                                  |               | 47 40.0-135.0  |     |       |           |
| 1,2,3,7,8-PeCDD-13C               | 950    |     | pg/L  | 2000                                  |               | 47 40.0-135.0  |     |       |           |
| 1,2,3,7,8-PeCDF-13C               | 1000   |     | pg/L  | 2000                                  |               | 49 40.0-135.0  |     |       |           |
| 2,3,4,6,7,8-HxCDF-13C             | 980    |     | pg/L  | 2000                                  |               | 48 40.0-135.0  |     |       |           |
| 2,3,4,7,8-PeCDF-13C               | 1000   |     | pg/L  | 2000                                  |               | 50 40.0-135.0  |     |       |           |
| 2,3,7,8-TCDD-13C                  | 880    |     | pg/L  | 2000                                  |               | 43 40.0-135.0  |     |       |           |
| 2,3,7,8-TCDF-13C                  | 1100   |     | pg/L  | 2000                                  |               | 55 40.0-135.0  |     |       |           |
| OCDD-13C                          | 1500   |     | pg/L  | 4100                                  |               | 38 40.0-135.0  |     |       | P         |
| LCSD (LCSD-111677)                |        |     |       | Prepared: 03/13/24 Analyzed: 03/16/24 |               |                |     |       |           |
| 1,2,3,4,6,7,8-HpCDD               | 1100   | 51  | pg/L  | 1000                                  | 1000          | 106 70.0-130.0 | 7.0 | 20.0  |           |

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## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                                  | Result | MRL | Units                     | Spike Level | Source Result             | %REC | Limits                    | RPD  | RPD Limit | Qualifier |
|------------------------------------------|--------|-----|---------------------------|-------------|---------------------------|------|---------------------------|------|-----------|-----------|
| <b>Batch: 37218 - SW8290 (Continued)</b> |        |     |                           |             |                           |      |                           |      |           |           |
| <b>LCSD (LCSD-111677)</b>                |        |     | <b>Source: LCS-111676</b> |             | <b>Prepared: 03/13/24</b> |      | <b>Analyzed: 03/16/24</b> |      |           |           |
| 1,2,3,4,6,7,8-HpCDF                      | 1100   | 51  | pg/L                      | 1000        | 1100                      | 111  | 70.0-130.0                | 4.5  | 20.0      |           |
| 1,2,3,4,7,8,9-HpCDF                      | 1100   | 51  | pg/L                      | 1000        | 1000                      | 111  | 70.0-130.0                | 8.5  | 20.0      |           |
| 1,2,3,4,7,8-HxCDD                        | 1200   | 51  | pg/L                      | 1000        | 1200                      | 117  | 70.0-130.0                | 3.7  | 20.0      |           |
| 1,2,3,4,7,8-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1000                      | 107  | 70.0-130.0                | 4.7  | 20.0      |           |
| 1,2,3,6,7,8-HxCDD                        | 1100   | 51  | pg/L                      | 1000        | 1100                      | 108  | 70.0-130.0                | 4.0  | 20.0      |           |
| 1,2,3,6,7,8-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1000                      | 104  | 70.0-130.0                | 3.2  | 20.0      |           |
| 1,2,3,7,8,9-HxCDD                        | 1100   | 51  | pg/L                      | 1000        | 1100                      | 112  | 70.0-130.0                | 1.8  | 20.0      |           |
| 1,2,3,7,8,9-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1000                      | 105  | 70.0-130.0                | 5.6  | 20.0      |           |
| 1,2,3,7,8-PeCDD                          | 990    | 51  | pg/L                      | 1000        | 950                       | 97   | 70.0-130.0                | 3.8  | 20.0      |           |
| 1,2,3,7,8-PeCDF                          | 1100   | 51  | pg/L                      | 1000        | 980                       | 104  | 70.0-130.0                | 7.6  | 20.0      |           |
| 2,3,4,6,7,8-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1100                      | 110  | 70.0-130.0                | 1.8  | 20.0      |           |
| 2,3,4,7,8-PeCDF                          | 1100   | 51  | pg/L                      | 1000        | 990                       | 104  | 70.0-130.0                | 7.2  | 20.0      |           |
| 2,3,7,8-TCDD                             | 240    | 10  | pg/L                      | 200         | 240                       | 119  | 70.0-130.0                | 1.8  | 20.0      |           |
| 2,3,7,8-TCDF                             | 220    | 10  | pg/L                      | 200         | 200                       | 109  | 70.0-130.0                | 10.7 | 20.0      |           |
| OCDD                                     | 2400   | 100 | pg/L                      | 2000        | 2400                      | 116  | 70.0-130.0                | 1.9  | 20.0      |           |
| OCDF                                     | 2600   | 100 | pg/L                      | 2000        | 2600                      | 126  | 70.0-130.0                | 2.2  | 20.0      |           |
| <i>Surrogate(s)</i>                      |        |     |                           |             |                           |      |                           |      |           |           |
| 1,2,3,4,6,7,8-HpCDD-13C                  | 930    |     | pg/L                      | 2000        |                           | 46   | 40.0-135.0                |      |           |           |
| 1,2,3,4,6,7,8-HpCDF-13C                  | 980    |     | pg/L                      | 2000        |                           | 48   | 40.0-135.0                |      |           |           |
| 1,2,3,4,7,8,9-HpCDF-13C                  | 990    |     | pg/L                      | 2000        |                           | 49   | 40.0-135.0                |      |           |           |
| 1,2,3,4,7,8-HxCDD-13C                    | 960    |     | pg/L                      | 2000        |                           | 47   | 40.0-135.0                |      |           |           |
| 1,2,3,4,7,8-HxCDF-13C                    | 990    |     | pg/L                      | 2000        |                           | 49   | 40.0-135.0                |      |           |           |
| 1,2,3,6,7,8-HxCDD-13C                    | 1000   |     | pg/L                      | 2000        |                           | 51   | 40.0-135.0                |      |           |           |
| 1,2,3,6,7,8-HxCDF-13C                    | 1100   |     | pg/L                      | 2000        |                           | 52   | 40.0-135.0                |      |           |           |
| 1,2,3,7,8,9-HxCDF-13C                    | 1100   |     | pg/L                      | 2000        |                           | 52   | 40.0-135.0                |      |           |           |
| 1,2,3,7,8-PeCDD-13C                      | 1100   |     | pg/L                      | 2000        |                           | 53   | 40.0-135.0                |      |           |           |
| 1,2,3,7,8-PeCDF-13C                      | 1200   |     | pg/L                      | 2000        |                           | 57   | 40.0-135.0                |      |           |           |
| 2,3,4,6,7,8-HxCDF-13C                    | 1100   |     | pg/L                      | 2000        |                           | 54   | 40.0-135.0                |      |           |           |
| 2,3,4,7,8-PeCDF-13C                      | 1100   |     | pg/L                      | 2000        |                           | 54   | 40.0-135.0                |      |           |           |
| 2,3,7,8-TCDD-13C                         | 1000   |     | pg/L                      | 2000        |                           | 49   | 40.0-135.0                |      |           |           |
| 2,3,7,8-TCDF-13C                         | 1200   |     | pg/L                      | 2000        |                           | 58   | 40.0-135.0                |      |           |           |
| OCDD-13C                                 | 1800   |     | pg/L                      | 4100        |                           | 44   | 40.0-135.0                |      |           |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS

| Analyte                           | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| <b>Batch: W4C0805 - EPA 625.1</b> |        |     |       |                                              |               |      |        |     |           |           |
| <b>Blank (W4C0805-BLK1)</b>       |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/21/24</b> |               |      |        |     |           |           |
| 1,2,4-Trichlorobenzene            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,2-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,2-Diphenylhydrazine/Azobenzene  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,3-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 1,4-Dichlorobenzene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4,6-Trichlorophenol             | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dichlorophenol                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dimethylphenol                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dinitrophenol                 | ND     | 10  | ug/l  |                                              |               |      |        |     |           |           |
| 2,4-Dinitrotoluene                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2,6-Dinitrotoluene                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Chloronaphthalene               | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Chlorophenol                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Methyl-4,6-dinitrophenol        | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| 2-Nitrophenol                     | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 3,3'-Dichlorobenzidine            | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Bromophenyl phenyl ether        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Chloro-3-methylphenol           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Chlorophenyl phenyl ether       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| 4-Nitrophenol                     | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| Acenaphthene                      | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Acenaphthylene                    | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Anthracene                        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzidine                         | ND     | 10  | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (a) anthracene              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (a) pyrene                  | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (b) fluoranthene            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (g,h,i) perylene            | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           |           |
| Benzo (k) fluoranthene            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-chloroethoxy)methane        | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-chloroethyl)ether           | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-chloroisopropyl)ether       | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Bis(2-ethylhexyl)phthalate        | ND     | 5.0 | ug/l  |                                              |               |      |        |     |           |           |
| Butyl benzyl phthalate            | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Chrysene                          | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Dibenzo (a,h) anthracene          | ND     | 2.0 | ug/l  |                                              |               |      |        |     |           |           |
| Diethyl phthalate                 | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Dimethyl phthalate                | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |
| Di-n-butyl phthalate              | ND     | 1.0 | ug/l  |                                              |               |      |        |     |           |           |



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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits  | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-----------|-----------|
| <b>Batch: W4C0805 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |           |           |
| <b>Blank (W4C0805-BLK1)</b>                   |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/21/24</b> |               |      |         |     |           |           |
| Di-n-octyl phthalate                          | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Fluoranthene                                  | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Fluorene                                      | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachlorobenzene                             | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachlorobutadiene                           | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachlorocyclopentadiene                     | ND     | 5.0 | ug/l  |                                              |               |      |         |     |           |           |
| Hexachloroethane                              | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Indeno (1,2,3-cd) pyrene                      | ND     | 2.0 | ug/l  |                                              |               |      |         |     |           |           |
| Isophorone                                    | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Naphthalene                                   | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Nitrobenzene                                  | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| N-Nitrosodimethylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| N-Nitrosodi-n-propylamine                     | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| N-Nitrosodiphenylamine                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Pentachlorophenol                             | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Phenanthrene                                  | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Phenol                                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| Pyrene                                        | ND     | 1.0 | ug/l  |                                              |               |      |         |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |           |           |
| 2,4,6-Tribromophenol                          | 31.2   |     | ug/l  | 40.0                                         |               | 78   | 25-120  |     |           |           |
| 2-Fluorobiphenyl                              | 14.9   |     | ug/l  | 20.0                                         |               | 75   | 22-120  |     |           |           |
| 2-Fluorophenol                                | 18.0   |     | ug/l  | 40.0                                         |               | 45   | 17-120  |     |           |           |
| Nitrobenzene-d5                               | 15.0   |     | ug/l  | 20.0                                         |               | 75   | 47-120  |     |           |           |
| Phenol-d5                                     | 11.3   |     | ug/l  | 40.0                                         |               | 28   | 12-120  |     |           |           |
| Terphenyl-d14                                 | 21.0   |     | ug/l  | 20.0                                         |               | 105  | 44-129  |     |           |           |
| <b>LCS (W4C0805-BS1)</b>                      |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/20/24</b> |               |      |         |     |           |           |
| 1,2,4-Trichlorobenzene                        | 15.6   | 1.0 | ug/l  | 20.0                                         |               | 78   | 57-130  |     |           |           |
| 1,2-Dichlorobenzene                           | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75   | 57-120  |     |           |           |
| 1,3-Dichlorobenzene                           | 15.2   | 1.0 | ug/l  | 20.0                                         |               | 76   | 55-120  |     |           |           |
| 1,4-Dichlorobenzene                           | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 55-120  |     |           |           |
| 2,4,6-Trichlorophenol                         | 16.8   | 1.0 | ug/l  | 20.0                                         |               | 84   | 52-129  |     |           |           |
| 2,4-Dichlorophenol                            | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 85   | 53-122  |     |           |           |
| 2,4-Dimethylphenol                            | 13.9   | 1.0 | ug/l  | 20.0                                         |               | 70   | 42-120  |     |           |           |
| 2,4-Dinitrophenol                             | 17.7   | 10  | ug/l  | 20.0                                         |               | 88   | 0.1-173 |     |           |           |
| 2,4-Dinitrotoluene                            | 18.8   | 1.0 | ug/l  | 20.0                                         |               | 94   | 48-127  |     |           |           |
| 2,6-Dinitrotoluene                            | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88   | 68-137  |     |           |           |
| 2-Chloronaphthalene                           | 16.4   | 1.0 | ug/l  | 20.0                                         |               | 82   | 65-120  |     |           |           |
| 2-Chlorophenol                                | 15.3   | 1.0 | ug/l  | 20.0                                         |               | 77   | 36-120  |     |           |           |
| 2-Methyl-4,6-dinitrophenol                    | 18.8   | 5.0 | ug/l  | 20.0                                         |               | 94   | 53-130  |     |           |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4C0805 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |             |     |           |           |
| <b>LCS (W4C0805-BS1)</b>                      |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/20/24</b> |               |             |     |           |           |
| 2-Nitrophenol                                 | 17.7   | 1.0 | ug/l  | 20.0                                         |               | 88 45-167   |     |           |           |
| 3,3'-Dichlorobenzidine                        | 11.5   | 5.0 | ug/l  | 20.0                                         |               | 58 8-213    |     |           |           |
| 4-Bromophenyl phenyl ether                    | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 86 65-120   |     |           |           |
| 4-Chloro-3-methylphenol                       | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88 41-128   |     |           |           |
| 4-Chlorophenyl phenyl ether                   | 16.3   | 1.0 | ug/l  | 20.0                                         |               | 81 38-145   |     |           |           |
| 4-Nitrophenol                                 | 6.85   | 5.0 | ug/l  | 20.0                                         |               | 34 13-129   |     |           |           |
| Acenaphthene                                  | 16.7   | 1.0 | ug/l  | 20.0                                         |               | 83 60-132   |     |           |           |
| Acenaphthylene                                | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 87 54-126   |     |           |           |
| Anthracene                                    | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 87 43-120   |     |           |           |
| Benzo (a) anthracene                          | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 90 42-133   |     |           |           |
| Benzo (a) pyrene                              | 19.7   | 1.0 | ug/l  | 20.0                                         |               | 99 32-148   |     |           |           |
| Benzo (b) fluoranthene                        | 19.8   | 1.0 | ug/l  | 20.0                                         |               | 99 42-140   |     |           | AN-IP     |
| Benzo (g,h,i) perylene                        | 22.5   | 2.0 | ug/l  | 20.0                                         |               | 112 0.1-195 |     |           |           |
| Benzo (k) fluoranthene                        | 18.7   | 1.0 | ug/l  | 20.0                                         |               | 93 25-146   |     |           | AN-IP     |
| Bis(2-chloroethoxy)methane                    | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79 49-165   |     |           |           |
| Bis(2-chloroethyl)ether                       | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 80 43-126   |     |           |           |
| Bis(2-chloroisopropyl)ether                   | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 85 63-139   |     |           |           |
| Bis(2-ethylhexyl)phthalate                    | 21.6   | 5.0 | ug/l  | 20.0                                         |               | 108 29-137  |     |           |           |
| Butyl benzyl phthalate                        | 21.4   | 1.0 | ug/l  | 20.0                                         |               | 107 0.1-140 |     |           |           |
| Chrysene                                      | 17.9   | 1.0 | ug/l  | 20.0                                         |               | 90 44-140   |     |           |           |
| Dibenzo (a,h) anthracene                      | 19.6   | 2.0 | ug/l  | 20.0                                         |               | 98 0.1-200  |     |           |           |
| Diethyl phthalate                             | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83 0.1-120  |     |           |           |
| Dimethyl phthalate                            | 17.0   | 1.0 | ug/l  | 20.0                                         |               | 85 0.1-120  |     |           |           |
| Di-n-butyl phthalate                          | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 88 8-120    |     |           |           |
| Di-n-octyl phthalate                          | 19.4   | 1.0 | ug/l  | 20.0                                         |               | 97 19-132   |     |           |           |
| Fluoranthene                                  | 17.7   | 1.0 | ug/l  | 20.0                                         |               | 88 43-121   |     |           |           |
| Fluorene                                      | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 88 70-120   |     |           |           |
| Hexachlorobenzene                             | 16.8   | 1.0 | ug/l  | 20.0                                         |               | 84 8-142    |     |           |           |
| Hexachlorobutadiene                           | 16.6   | 1.0 | ug/l  | 20.0                                         |               | 83 38-120   |     |           |           |
| Hexachlorocyclopentadiene                     | 13.3   | 5.0 | ug/l  | 20.0                                         |               | 66 10-120   |     |           |           |
| Hexachloroethane                              | 16.1   | 1.0 | ug/l  | 20.0                                         |               | 80 55-120   |     |           |           |
| Indeno (1,2,3-cd) pyrene                      | 18.7   | 2.0 | ug/l  | 20.0                                         |               | 94 0.1-151  |     |           |           |
| Isophorone                                    | 13.9   | 1.0 | ug/l  | 20.0                                         |               | 70 47-180   |     |           |           |
| Naphthalene                                   | 17.1   | 1.0 | ug/l  | 20.0                                         |               | 85 36-120   |     |           |           |
| Nitrobenzene                                  | 15.9   | 1.0 | ug/l  | 20.0                                         |               | 79 54-158   |     |           |           |
| N-Nitrosodimethylamine                        | 10.7   | 1.0 | ug/l  | 20.0                                         |               | 53 22-120   |     |           |           |
| N-Nitrosodi-n-propylamine                     | 15.3   | 1.0 | ug/l  | 20.0                                         |               | 76 14-198   |     |           |           |
| N-Nitrosodiphenylamine                        | 14.4   | 1.0 | ug/l  | 20.0                                         |               | 72 47-120   |     |           |           |
| Pentachlorophenol                             | 16.8   | 1.0 | ug/l  | 20.0                                         |               | 84 41-120   |     |           |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limits  | RPD | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|-----|-------|-----------|
| <b>Batch: W4C0805 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |     |       |           |
| <b>LCS (W4C0805-BS1)</b>                      |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/20/24</b> |               |      |         |     |       |           |
| Phenanthrene                                  | 18.2   | 1.0 | ug/l  | 20.0                                         |               | 91   | 65-120  |     |       |           |
| Phenol                                        | 5.79   | 1.0 | ug/l  | 20.0                                         |               | 29   | 17-120  |     |       |           |
| Pyrene                                        | 18.6   | 1.0 | ug/l  | 20.0                                         |               | 93   | 70-120  |     |       |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |     |       |           |
| 2,4,6-Tribromophenol                          | 36.0   |     | ug/l  | 40.0                                         |               | 90   | 25-120  |     |       |           |
| 2-Fluorobiphenyl                              | 15.9   |     | ug/l  | 20.0                                         |               | 79   | 22-120  |     |       |           |
| 2-Fluorophenol                                | 20.1   |     | ug/l  | 40.0                                         |               | 50   | 17-120  |     |       |           |
| Nitrobenzene-d5                               | 16.8   |     | ug/l  | 20.0                                         |               | 84   | 47-120  |     |       |           |
| Phenol-d5                                     | 12.5   |     | ug/l  | 40.0                                         |               | 31   | 12-120  |     |       |           |
| Terphenyl-d14                                 | 19.8   |     | ug/l  | 20.0                                         |               | 99   | 44-129  |     |       |           |
| <b>LCS Dup (W4C0805-BS1)</b>                  |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/21/24</b> |               |      |         |     |       |           |
| 1,2,4-Trichlorobenzene                        | 14.0   | 1.0 | ug/l  | 20.0                                         |               | 70   | 57-130  | 11  | 30    |           |
| 1,2-Dichlorobenzene                           | 13.0   | 1.0 | ug/l  | 20.0                                         |               | 65   | 57-120  | 15  | 30    |           |
| 1,3-Dichlorobenzene                           | 12.8   | 1.0 | ug/l  | 20.0                                         |               | 64   | 55-120  | 17  | 30    |           |
| 1,4-Dichlorobenzene                           | 13.7   | 1.0 | ug/l  | 20.0                                         |               | 69   | 55-120  | 16  | 30    |           |
| 2,4,6-Trichlorophenol                         | 16.8   | 1.0 | ug/l  | 20.0                                         |               | 84   | 52-129  | 0.2 | 30    |           |
| 2,4-Dichlorophenol                            | 16.2   | 1.0 | ug/l  | 20.0                                         |               | 81   | 53-122  | 4   | 30    |           |
| 2,4-Dimethylphenol                            | 14.9   | 1.0 | ug/l  | 20.0                                         |               | 75   | 42-120  | 7   | 30    |           |
| 2,4-Dinitrophenol                             | 18.5   | 10  | ug/l  | 20.0                                         |               | 93   | 0.1-173 | 5   | 30    |           |
| 2,4-Dinitrotoluene                            | 20.0   | 1.0 | ug/l  | 20.0                                         |               | 100  | 48-127  | 6   | 30    |           |
| 2,6-Dinitrotoluene                            | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 90   | 68-137  | 2   | 30    |           |
| 2-Chloronaphthalene                           | 16.0   | 1.0 | ug/l  | 20.0                                         |               | 80   | 65-120  | 2   | 30    |           |
| 2-Chlorophenol                                | 13.8   | 1.0 | ug/l  | 20.0                                         |               | 69   | 36-120  | 11  | 30    |           |
| 2-Methyl-4,6-dinitrophenol                    | 19.8   | 5.0 | ug/l  | 20.0                                         |               | 99   | 53-130  | 5   | 30    |           |
| 2-Nitrophenol                                 | 16.5   | 1.0 | ug/l  | 20.0                                         |               | 83   | 45-167  | 7   | 30    |           |
| 3,3'-Dichlorobenzidine                        | 10.3   | 5.0 | ug/l  | 20.0                                         |               | 52   | 8-213   | 11  | 30    |           |
| 4-Bromophenyl phenyl ether                    | 18.1   | 1.0 | ug/l  | 20.0                                         |               | 90   | 65-120  | 5   | 30    |           |
| 4-Chloro-3-methylphenol                       | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 87   | 41-128  | 1   | 30    |           |
| 4-Chlorophenyl phenyl ether                   | 16.3   | 1.0 | ug/l  | 20.0                                         |               | 82   | 38-145  | 0.2 | 30    |           |
| 4-Nitrophenol                                 | 7.47   | 5.0 | ug/l  | 20.0                                         |               | 37   | 13-129  | 9   | 30    |           |
| Acenaphthene                                  | 16.9   | 1.0 | ug/l  | 20.0                                         |               | 84   | 60-132  | 1   | 30    |           |
| Acenaphthylene                                | 17.6   | 1.0 | ug/l  | 20.0                                         |               | 88   | 54-126  | 0.9 | 30    |           |
| Anthracene                                    | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 86   | 43-120  | 1   | 30    |           |
| Benzo (a) anthracene                          | 17.9   | 1.0 | ug/l  | 20.0                                         |               | 90   | 42-133  | 0.9 | 30    |           |
| Benzo (a) pyrene                              | 20.6   | 1.0 | ug/l  | 20.0                                         |               | 103  | 32-148  | 4   | 30    |           |
| Benzo (b) fluoranthene                        | 20.0   | 1.0 | ug/l  | 20.0                                         |               | 100  | 42-140  | 1   | 30    | AN-IP     |
| Benzo (g,h,i) perylene                        | 22.3   | 2.0 | ug/l  | 20.0                                         |               | 112  | 0.1-195 | 0.6 | 30    |           |
| Benzo (k) fluoranthene                        | 19.5   | 1.0 | ug/l  | 20.0                                         |               | 98   | 25-146  | 4   | 30    | AN-IP     |
| Bis(2-chloroethoxy)methane                    | 15.0   | 1.0 | ug/l  | 20.0                                         |               | 75   | 49-165  | 5   | 30    |           |

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                                  | Source Result | %REC | Limit   | RPD  | Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|----------------------------------------------|---------------|------|---------|------|-------|-----------|
| <b>Batch: W4C0805 - EPA 625.1 (Continued)</b> |        |     |       |                                              |               |      |         |      |       |           |
| <b>LCS Dup (W4C0805-BSD1)</b>                 |        |     |       | <b>Prepared: 03/11/24 Analyzed: 03/21/24</b> |               |      |         |      |       |           |
| Bis(2-chloroethyl)ether                       | 14.1   | 1.0 | ug/l  | 20.0                                         |               | 70   | 43-126  | 12   | 30    |           |
| Bis(2-chloroisopropyl)ether                   | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 72   | 63-139  | 16   | 30    |           |
| Bis(2-ethylhexyl)phthalate                    | 21.1   | 5.0 | ug/l  | 20.0                                         |               | 106  | 29-137  | 2    | 30    |           |
| Butyl benzyl phthalate                        | 20.8   | 1.0 | ug/l  | 20.0                                         |               | 104  | 0.1-140 | 3    | 30    |           |
| Chrysene                                      | 18.5   | 1.0 | ug/l  | 20.0                                         |               | 92   | 44-140  | 3    | 30    |           |
| Dibenzo (a,h) anthracene                      | 19.6   | 2.0 | ug/l  | 20.0                                         |               | 98   | 0.1-200 | 0.03 | 30    |           |
| Diethyl phthalate                             | 17.3   | 1.0 | ug/l  | 20.0                                         |               | 86   | 0.1-120 | 4    | 30    |           |
| Dimethyl phthalate                            | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 87   | 0.1-120 | 3    | 30    |           |
| Di-n-butyl phthalate                          | 18.0   | 1.0 | ug/l  | 20.0                                         |               | 90   | 8-120   | 3    | 30    |           |
| Di-n-octyl phthalate                          | 20.3   | 1.0 | ug/l  | 20.0                                         |               | 102  | 19-132  | 5    | 30    |           |
| Fluoranthene                                  | 18.4   | 1.0 | ug/l  | 20.0                                         |               | 92   | 43-121  | 4    | 30    |           |
| Fluorene                                      | 17.7   | 1.0 | ug/l  | 20.0                                         |               | 89   | 70-120  | 1    | 30    |           |
| Hexachlorobenzene                             | 17.5   | 1.0 | ug/l  | 20.0                                         |               | 88   | 8-142   | 5    | 30    |           |
| Hexachlorobutadiene                           | 12.3   | 1.0 | ug/l  | 20.0                                         |               | 61   | 38-120  | 30   | 30    |           |
| Hexachlorocyclopentadiene                     | 11.5   | 5.0 | ug/l  | 20.0                                         |               | 57   | 10-120  | 14   | 30    |           |
| Hexachloroethane                              | 12.8   | 1.0 | ug/l  | 20.0                                         |               | 64   | 55-120  | 23   | 30    |           |
| Indeno (1,2,3-cd) pyrene                      | 19.2   | 2.0 | ug/l  | 20.0                                         |               | 96   | 0.1-151 | 2    | 30    |           |
| Isophorone                                    | 13.5   | 1.0 | ug/l  | 20.0                                         |               | 68   | 47-180  | 3    | 30    |           |
| Naphthalene                                   | 15.5   | 1.0 | ug/l  | 20.0                                         |               | 77   | 36-120  | 10   | 30    |           |
| Nitrobenzene                                  | 14.8   | 1.0 | ug/l  | 20.0                                         |               | 74   | 54-158  | 7    | 30    |           |
| N-Nitrosodimethylamine                        | 9.57   | 1.0 | ug/l  | 20.0                                         |               | 48   | 22-120  | 11   | 30    |           |
| N-Nitrosodi-n-propylamine                     | 14.5   | 1.0 | ug/l  | 20.0                                         |               | 73   | 14-198  | 5    | 30    |           |
| N-Nitrosodiphenylamine                        | 14.9   | 1.0 | ug/l  | 20.0                                         |               | 74   | 47-120  | 3    | 30    |           |
| Pentachlorophenol                             | 17.7   | 1.0 | ug/l  | 20.0                                         |               | 88   | 41-120  | 5    | 30    |           |
| Phenanthrene                                  | 18.0   | 1.0 | ug/l  | 20.0                                         |               | 90   | 65-120  | 1    | 30    |           |
| Phenol                                        | 5.22   | 1.0 | ug/l  | 20.0                                         |               | 26   | 17-120  | 10   | 30    |           |
| Pyrene                                        | 18.4   | 1.0 | ug/l  | 20.0                                         |               | 92   | 70-120  | 1    | 30    |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                              |               |      |         |      |       |           |
| 2,4,6-Tribromophenol                          | 37.3   |     | ug/l  | 40.0                                         |               | 93   | 25-120  |      |       |           |
| 2-Fluorobiphenyl                              | 15.5   |     | ug/l  | 20.0                                         |               | 78   | 22-120  |      |       |           |
| 2-Fluorophenol                                | 17.7   |     | ug/l  | 40.0                                         |               | 44   | 17-120  |      |       |           |
| Nitrobenzene-d5                               | 15.4   |     | ug/l  | 20.0                                         |               | 77   | 47-120  |      |       |           |
| Phenol-d5                                     | 11.4   |     | ug/l  | 40.0                                         |               | 28   | 12-120  |      |       |           |
| Terphenyl-d14                                 | 20.1   |     | ug/l  | 20.0                                         |               | 100  | 44-129  |      |       |           |

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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD

| Analyte                           | Result | MRL    | Units | Spike Level                                  | Source Result | %REC | Limit  | RPD | Limit | Qualifier |
|-----------------------------------|--------|--------|-------|----------------------------------------------|---------------|------|--------|-----|-------|-----------|
| <b>Batch: W4C0808 - EPA 608.3</b> |        |        |       |                                              |               |      |        |     |       |           |
| <b>Blank (W4C0808-BLK1)</b>       |        |        |       | <b>Prepared: 03/11/24 Analyzed: 04/11/24</b> |               |      |        |     |       |           |
| 4,4'-DDD                          | ND     | 0.050  | ug/l  |                                              |               |      |        |     |       |           |
| 4,4'-DDE                          | ND     | 0.050  | ug/l  |                                              |               |      |        |     |       |           |
| 4,4'-DDT                          | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Aldrin                            | ND     | 0.0050 | ug/l  |                                              |               |      |        |     |       |           |
| alpha-BHC                         | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1016                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1221                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1232                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1242                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1248                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1254                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| Aroclor 1260                      | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| beta-BHC                          | ND     | 0.0050 | ug/l  |                                              |               |      |        |     |       |           |
| Chlordane (tech)                  | ND     | 0.10   | ug/l  |                                              |               |      |        |     |       |           |
| delta-BHC                         | ND     | 0.0050 | ug/l  |                                              |               |      |        |     |       |           |
| Dieldrin                          | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Endosulfan I                      | ND     | 0.020  | ug/l  |                                              |               |      |        |     |       |           |
| Endosulfan II                     | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Endosulfan sulfate                | ND     | 0.050  | ug/l  |                                              |               |      |        |     |       |           |
| Endrin                            | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Endrin aldehyde                   | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| gamma-BHC (Lindane)               | ND     | 0.020  | ug/l  |                                              |               |      |        |     |       |           |
| Heptachlor                        | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Heptachlor epoxide                | ND     | 0.010  | ug/l  |                                              |               |      |        |     |       |           |
| Toxaphene                         | ND     | 0.50   | ug/l  |                                              |               |      |        |     |       |           |
| <i>Surrogate(s)</i>               |        |        |       |                                              |               |      |        |     |       |           |
| Decachlorobiphenyl                | 0.111  |        | ug/l  | 0.100                                        |               | 111  | 33-133 |     |       |           |
| Tetrachloro-meta-xylene           | 0.0641 |        | ug/l  | 0.100                                        |               | 64   | 32-130 |     |       |           |
| <b>LCS (W4C0808-BS1)</b>          |        |        |       | <b>Prepared: 03/11/24 Analyzed: 04/11/24</b> |               |      |        |     |       |           |
| 4,4'-DDD                          | 0.125  | 0.050  | ug/l  | 0.100                                        |               | 125  | 48-130 |     |       |           |
| 4,4'-DDE                          | 0.108  | 0.050  | ug/l  | 0.100                                        |               | 108  | 54-130 |     |       |           |
| 4,4'-DDT                          | 0.141  | 0.010  | ug/l  | 0.100                                        |               | 141  | 46-137 |     |       | Q-08      |
| Aldrin                            | 0.0930 | 0.0050 | ug/l  | 0.100                                        |               | 93   | 54-130 |     |       |           |
| alpha-BHC                         | 0.0936 | 0.010  | ug/l  | 0.100                                        |               | 94   | 49-130 |     |       |           |
| beta-BHC                          | 0.103  | 0.0050 | ug/l  | 0.100                                        |               | 103  | 39-130 |     |       |           |
| delta-BHC                         | 0.0969 | 0.0050 | ug/l  | 0.100                                        |               | 97   | 51-130 |     |       |           |
| Dieldrin                          | 0.0922 | 0.010  | ug/l  | 0.100                                        |               | 92   | 58-130 |     |       |           |
| Endosulfan I                      | 0.0769 | 0.020  | ug/l  | 0.100                                        |               | 77   | 57-141 |     |       |           |
| Endosulfan II                     | 0.0981 | 0.010  | ug/l  | 0.100                                        |               | 98   | 22-171 |     |       |           |

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## Quality Control Results

(Continued)

### Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

| Analyte                                       | Result | MRL    | Units | Spike Level                                  | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|--------|-------|----------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4C0808 - EPA 608.3 (Continued)</b> |        |        |       |                                              |               |             |     |           |           |
| <b>LCS (W4C0808-BS1)</b>                      |        |        |       | <b>Prepared: 03/11/24 Analyzed: 04/11/24</b> |               |             |     |           |           |
| Endosulfan sulfate                            | 0.139  | 0.050  | ug/l  | 0.100                                        |               | 139 38-132  |     |           | Q-08      |
| Endrin                                        | 0.133  | 0.010  | ug/l  | 0.100                                        |               | 133 51-130  |     |           | Q-08      |
| Endrin aldehyde                               | 0.0966 | 0.010  | ug/l  | 0.100                                        |               | 97 18-130   |     |           |           |
| gamma-BHC (Lindane)                           | 0.0969 | 0.020  | ug/l  | 0.100                                        |               | 97 43-130   |     |           |           |
| Heptachlor                                    | 0.104  | 0.010  | ug/l  | 0.100                                        |               | 104 43-130  |     |           |           |
| Heptachlor epoxide                            | 0.100  | 0.010  | ug/l  | 0.100                                        |               | 100 57-132  |     |           |           |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |     |           |           |
| Decachlorobiphenyl                            | 0.123  |        | ug/l  | 0.100                                        |               | 123 33-133  |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0824 |        | ug/l  | 0.100                                        |               | 82 32-130   |     |           |           |
| <b>LCS Dup (W4C0808-BSD1)</b>                 |        |        |       | <b>Prepared: 03/11/24 Analyzed: 04/11/24</b> |               |             |     |           |           |
| 4,4'-DDD                                      | 0.117  | 0.050  | ug/l  | 0.100                                        |               | 117 48-130  | 6   | 30        |           |
| 4,4'-DDE                                      | 0.101  | 0.050  | ug/l  | 0.100                                        |               | 101 54-130  | 6   | 30        |           |
| 4,4'-DDT                                      | 0.132  | 0.010  | ug/l  | 0.100                                        |               | 132 46-137  | 6   | 30        |           |
| Aldrin                                        | 0.0882 | 0.0050 | ug/l  | 0.100                                        |               | 88 54-130   | 5   | 30        |           |
| alpha-BHC                                     | 0.0880 | 0.010  | ug/l  | 0.100                                        |               | 88 49-130   | 6   | 30        |           |
| beta-BHC                                      | 0.0973 | 0.0050 | ug/l  | 0.100                                        |               | 97 39-130   | 6   | 30        |           |
| delta-BHC                                     | 0.0887 | 0.0050 | ug/l  | 0.100                                        |               | 89 51-130   | 9   | 30        |           |
| Dieldrin                                      | 0.0876 | 0.010  | ug/l  | 0.100                                        |               | 88 58-130   | 5   | 30        |           |
| Endosulfan I                                  | 0.0730 | 0.020  | ug/l  | 0.100                                        |               | 73 57-141   | 5   | 30        |           |
| Endosulfan II                                 | 0.0936 | 0.010  | ug/l  | 0.100                                        |               | 94 22-171   | 5   | 30        |           |
| Endosulfan sulfate                            | 0.129  | 0.050  | ug/l  | 0.100                                        |               | 129 38-132  | 8   | 30        |           |
| Endrin                                        | 0.126  | 0.010  | ug/l  | 0.100                                        |               | 126 51-130  | 6   | 30        |           |
| Endrin aldehyde                               | 0.0919 | 0.010  | ug/l  | 0.100                                        |               | 92 18-130   | 5   | 30        |           |
| gamma-BHC (Lindane)                           | 0.0916 | 0.020  | ug/l  | 0.100                                        |               | 92 43-130   | 6   | 30        |           |
| Heptachlor                                    | 0.0988 | 0.010  | ug/l  | 0.100                                        |               | 99 43-130   | 5   | 30        |           |
| Heptachlor epoxide                            | 0.0953 | 0.010  | ug/l  | 0.100                                        |               | 95 57-132   | 5   | 30        |           |
| <i>Surrogate(s)</i>                           |        |        |       |                                              |               |             |     |           |           |
| Decachlorobiphenyl                            | 0.109  |        | ug/l  | 0.100                                        |               | 109 33-133  |     |           |           |
| Tetrachloro-meta-xylene                       | 0.0814 |        | ug/l  | 0.100                                        |               | 81 32-130   |     |           |           |

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**Project Manager:** Rachael Morgan

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS

| Analyte                            | Result | MRL | Units | Spike Level                              | Source Result | %REC | Limit | RPD | Limit | Qualifier |
|------------------------------------|--------|-----|-------|------------------------------------------|---------------|------|-------|-----|-------|-----------|
| <b>Batch: W4C0680 - EPA 624.1</b>  |        |     |       |                                          |               |      |       |     |       |           |
| <b>Blank (W4C0680-BLK1)</b>        |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |      |       |     |       |           |
| 1,1,1-Trichloroethane              | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1,2,2-Tetrachloroethane          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1,2-Trichloroethane              | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1-Dichloroethane                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,1-Dichloroethene                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,2-Dichloroethane                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 1,2-Dichloropropane                | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Butanone                         | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Chloroethyl vinyl ether          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| 2-Hexanone                         | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| 4-Methyl-2-pentanone               | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acetone                            | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acrolein                           | ND     | 5.0 | ug/l  |                                          |               |      |       |     |       |           |
| Acrylonitrile                      | ND     | 2.0 | ug/l  |                                          |               |      |       |     |       |           |
| Benzene                            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromodichloromethane               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromoform                          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Bromomethane                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Carbon Disulfide                   | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Carbon tetrachloride               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chlorobenzene                      | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloroethane                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloroform                         | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Chloromethane                      | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| cis-1,3-Dichloropropene            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Dibromochloromethane               | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Dichlorodifluoromethane (Freon 12) | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Ethylbenzene                       | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| m-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Methylene chloride                 | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| o-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| p-Dichlorobenzene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Tetrachloroethene                  | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Toluene                            | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| trans-1,2-Dichloroethene           | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| trans-1,3-Dichloropropene          | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Trichloroethene                    | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |
| Trichlorofluoromethane             | ND     | 1.0 | ug/l  |                                          |               |      |       |     |       |           |

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC Limits | RPD     | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|-------------|---------|-----------|-----------|
| <b>Batch: W4C0680 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |             |         |           |           |
| <b>Blank (W4C0680-BLK1)</b>                   |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |         |           |           |
| Vinyl chloride                                | ND     | 1.0 | ug/l  |                                          |               |             |         |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |         |           |           |
| 1,2-Dichloroethane-d4                         | 51.1   |     | ug/l  | 50.0                                     |               | 102         | 82-125  |           |           |
| 4-Bromofluorobenzene                          | 48.3   |     | ug/l  | 50.0                                     |               | 97          | 88-108  |           |           |
| Toluene-d8                                    | 50.5   |     | ug/l  | 50.0                                     |               | 101         | 92-112  |           |           |
| <b>LCS (W4C0680-BS1)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |         |           |           |
| 1,1,1-Trichloroethane                         | 19.7   | 1.0 | ug/l  | 20.0                                     |               | 99          | 52-162  |           |           |
| 1,1,2,2-Tetrachloroethane                     | 18.5   | 1.0 | ug/l  | 20.0                                     |               | 92          | 46-157  |           |           |
| 1,1,2-Trichloroethane                         | 20.2   | 1.0 | ug/l  | 20.0                                     |               | 101         | 52-150  |           |           |
| 1,1-Dichloroethane                            | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100         | 59-155  |           |           |
| 1,1-Dichloroethene                            | 19.5   | 1.0 | ug/l  | 20.0                                     |               | 98          | 0.1-234 |           |           |
| 1,2-Dichloroethane                            | 20.1   | 1.0 | ug/l  | 20.0                                     |               | 100         | 49-155  |           |           |
| 1,2-Dichloropropane                           | 20.5   | 1.0 | ug/l  | 20.0                                     |               | 102         | 0.1-210 |           |           |
| 2-Butanone                                    | 21.1   | 5.0 | ug/l  | 20.0                                     |               | 106         | 67-136  |           |           |
| 2-Chloroethyl vinyl ether                     | 6.09   | 1.0 | ug/l  | 20.0                                     |               | 30          | 0.1-305 |           |           |
| 2-Hexanone                                    | 19.7   | 5.0 | ug/l  | 20.0                                     |               | 98          | 76-133  |           |           |
| 4-Methyl-2-pentanone                          | 19.7   | 5.0 | ug/l  | 20.0                                     |               | 99          | 74-132  |           |           |
| Acetone                                       | 197    | 5.0 | ug/l  | 200                                      |               | 99          | 60-147  |           |           |
| Acrolein                                      | 37.1   | 5.0 | ug/l  | 20.0                                     |               | 185         | 49-152  |           | Q-08      |
| Acrylonitrile                                 | 20.7   | 2.0 | ug/l  | 20.0                                     |               | 104         | 74-127  |           |           |
| Benzene                                       | 20.2   | 1.0 | ug/l  | 20.0                                     |               | 101         | 37-151  |           |           |
| Bromodichloromethane                          | 21.1   | 1.0 | ug/l  | 20.0                                     |               | 106         | 35-155  |           |           |
| Bromoform                                     | 21.1   | 1.0 | ug/l  | 20.0                                     |               | 105         | 45-169  |           |           |
| Bromomethane                                  | 19.0   | 1.0 | ug/l  | 20.0                                     |               | 95          | 0.1-242 |           |           |
| Carbon Disulfide                              | 20.4   | 1.0 | ug/l  | 20.0                                     |               | 102         | 79-118  |           |           |
| Carbon tetrachloride                          | 21.2   | 1.0 | ug/l  | 20.0                                     |               | 106         | 70-140  |           |           |
| Chlorobenzene                                 | 19.6   | 1.0 | ug/l  | 20.0                                     |               | 98          | 37-160  |           |           |
| Chloroethane                                  | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100         | 14-230  |           |           |
| Chloroform                                    | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100         | 51-138  |           |           |
| Chloromethane                                 | 17.6   | 1.0 | ug/l  | 20.0                                     |               | 88          | 0.1-273 |           |           |
| cis-1,2-Dichloroethene                        | 20.1   | 1.0 | ug/l  | 20.0                                     |               | 100         | 85-121  |           |           |
| cis-1,3-Dichloropropene                       | 20.2   | 1.0 | ug/l  | 20.0                                     |               | 101         | 0.1-227 |           |           |
| Dibromochloromethane                          | 21.2   | 1.0 | ug/l  | 20.0                                     |               | 106         | 53-149  |           |           |
| Dichlorodifluoromethane (Freon 12)            | 18.4   | 1.0 | ug/l  | 20.0                                     |               | 92          | 67-126  |           |           |
| Ethylbenzene                                  | 19.8   | 1.0 | ug/l  | 20.0                                     |               | 99          | 37-162  |           |           |
| m,p-Xylene                                    | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100         | 81-121  |           |           |
| m-Dichlorobenzene                             | 19.4   | 1.0 | ug/l  | 20.0                                     |               | 97          | 59-156  |           |           |
| Methyl tert-butyl ether (MTBE)                | 77.3   | 1.0 | ug/l  | 80.0                                     |               | 97          | 80-128  |           |           |
| Methylene chloride                            | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100         | 0.1-221 |           |           |



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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4C0680 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |             |     |           |           |
| <b>LCS (W4C0680-BS1)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |     |           |           |
| o-Dichlorobenzene                             | 18.8   | 1.0 | ug/l  | 20.0                                     |               | 94 18-190   |     |           |           |
| o-Xylene                                      | 19.7   | 1.0 | ug/l  | 20.0                                     |               | 99 84-121   |     |           |           |
| p-Dichlorobenzene                             | 19.3   | 1.0 | ug/l  | 20.0                                     |               | 97 18-190   |     |           |           |
| Tert-butyl alcohol                            | 69.2   | 5.0 | ug/l  | 80.0                                     |               | 86 53-144   |     |           |           |
| Tetrachloroethene                             | 19.8   | 1.0 | ug/l  | 20.0                                     |               | 99 64-148   |     |           |           |
| Toluene                                       | 20.2   | 1.0 | ug/l  | 20.0                                     |               | 101 47-150  |     |           |           |
| trans-1,2-Dichloroethene                      | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100 54-156  |     |           |           |
| trans-1,3-Dichloropropene                     | 22.1   | 1.0 | ug/l  | 20.0                                     |               | 110 17-183  |     |           |           |
| Trichloroethene                               | 19.1   | 1.0 | ug/l  | 20.0                                     |               | 95 71-157   |     |           |           |
| Trichlorofluoromethane                        | 20.2   | 1.0 | ug/l  | 20.0                                     |               | 101 17-181  |     |           |           |
| Vinyl chloride                                | 18.6   | 1.0 | ug/l  | 20.0                                     |               | 93 0.1-251  |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 49.7   |     | ug/l  | 50.0                                     |               | 99 82-125   |     |           |           |
| 4-Bromofluorobenzene                          | 51.1   |     | ug/l  | 50.0                                     |               | 102 88-108  |     |           |           |
| Toluene-d8                                    | 51.2   |     | ug/l  | 50.0                                     |               | 102 92-112  |     |           |           |
| <b>LCS (W4C0680-BS2)</b>                      |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |     |           |           |
| 2-Chloroethyl vinyl ether                     | 8.31   | 1.0 | ug/l  | 20.0                                     |               | 42 0.1-305  |     |           |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 50.8   |     | ug/l  | 50.0                                     |               | 102 82-125  |     |           |           |
| 4-Bromofluorobenzene                          | 47.7   |     | ug/l  | 50.0                                     |               | 95 88-108   |     |           |           |
| Toluene-d8                                    | 49.9   |     | ug/l  | 50.0                                     |               | 100 92-112  |     |           |           |
| <b>LCS Dup (W4C0680-BSD1)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |     |           |           |
| 1,1,1-Trichloroethane                         | 18.0   | 1.0 | ug/l  | 20.0                                     |               | 90 52-162   | 9   | 25        |           |
| 1,1,2,2-Tetrachloroethane                     | 18.1   | 1.0 | ug/l  | 20.0                                     |               | 90 46-157   | 2   | 25        |           |
| 1,1,2-Trichloroethane                         | 19.6   | 1.0 | ug/l  | 20.0                                     |               | 98 52-150   | 3   | 25        |           |
| 1,1-Dichloroethane                            | 18.6   | 1.0 | ug/l  | 20.0                                     |               | 93 59-155   | 7   | 25        |           |
| 1,1-Dichloroethene                            | 17.5   | 1.0 | ug/l  | 20.0                                     |               | 88 0.1-234  | 11  | 25        |           |
| 1,2-Dichloroethane                            | 19.0   | 1.0 | ug/l  | 20.0                                     |               | 95 49-155   | 6   | 25        |           |
| 1,2-Dichloropropane                           | 19.2   | 1.0 | ug/l  | 20.0                                     |               | 96 0.1-210  | 6   | 25        |           |
| 2-Butanone                                    | 20.6   | 5.0 | ug/l  | 20.0                                     |               | 103 67-136  | 3   | 25        |           |
| 2-Chloroethyl vinyl ether                     | 5.64   | 1.0 | ug/l  | 20.0                                     |               | 28 0.1-305  | 8   | 25        |           |
| 2-Hexanone                                    | 19.2   | 5.0 | ug/l  | 20.0                                     |               | 96 76-133   | 2   | 25        |           |
| 4-Methyl-2-pentanone                          | 19.2   | 5.0 | ug/l  | 20.0                                     |               | 96 74-132   | 3   | 25        |           |
| Acetone                                       | 193    | 5.0 | ug/l  | 200                                      |               | 96 60-147   | 2   | 25        |           |
| Acrolein                                      | 31.4   | 5.0 | ug/l  | 20.0                                     |               | 157 49-152  | 16  | 25        | Q-08      |
| Acrylonitrile                                 | 19.8   | 2.0 | ug/l  | 20.0                                     |               | 99 74-127   | 5   | 25        |           |
| Benzene                                       | 18.6   | 1.0 | ug/l  | 20.0                                     |               | 93 37-151   | 8   | 25        |           |
| Bromodichloromethane                          | 19.7   | 1.0 | ug/l  | 20.0                                     |               | 98 35-155   | 7   | 25        |           |
| Bromoform                                     | 20.0   | 1.0 | ug/l  | 20.0                                     |               | 100 45-169  | 5   | 25        |           |

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS (Continued)

| Analyte                                       | Result | MRL | Units | Spike Level                              | Source Result | %REC Limits | RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|-----|-------|------------------------------------------|---------------|-------------|-----|-----------|-----------|
| <b>Batch: W4C0680 - EPA 624.1 (Continued)</b> |        |     |       |                                          |               |             |     |           |           |
| <b>LCS Dup (W4C0680-BSD1)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |     |           |           |
| Bromomethane                                  | 18.0   | 1.0 | ug/l  | 20.0                                     |               | 90 0.1-242  | 5   | 25        |           |
| Carbon Disulfide                              | 18.6   | 1.0 | ug/l  | 20.0                                     |               | 93 79-118   | 9   | 25        |           |
| Carbon tetrachloride                          | 19.1   | 1.0 | ug/l  | 20.0                                     |               | 96 70-140   | 10  | 25        |           |
| Chlorobenzene                                 | 18.3   | 1.0 | ug/l  | 20.0                                     |               | 92 37-160   | 7   | 25        |           |
| Chloroethane                                  | 18.1   | 1.0 | ug/l  | 20.0                                     |               | 91 14-230   | 10  | 25        |           |
| Chloroform                                    | 18.8   | 1.0 | ug/l  | 20.0                                     |               | 94 51-138   | 6   | 25        |           |
| Chloromethane                                 | 16.2   | 1.0 | ug/l  | 20.0                                     |               | 81 0.1-273  | 8   | 25        |           |
| cis-1,2-Dichloroethene                        | 18.4   | 1.0 | ug/l  | 20.0                                     |               | 92 85-121   | 8   | 25        |           |
| cis-1,3-Dichloropropene                       | 19.1   | 1.0 | ug/l  | 20.0                                     |               | 96 0.1-227  | 5   | 25        |           |
| Dibromochloromethane                          | 20.4   | 1.0 | ug/l  | 20.0                                     |               | 102 53-149  | 4   | 25        |           |
| Dichlorodifluoromethane (Freon 12)            | 16.3   | 1.0 | ug/l  | 20.0                                     |               | 81 67-126   | 12  | 25        |           |
| Ethylbenzene                                  | 18.4   | 1.0 | ug/l  | 20.0                                     |               | 92 37-162   | 7   | 25        |           |
| m,p-Xylene                                    | 18.7   | 1.0 | ug/l  | 20.0                                     |               | 94 81-121   | 7   | 25        |           |
| m-Dichlorobenzene                             | 18.4   | 1.0 | ug/l  | 20.0                                     |               | 92 59-156   | 5   | 25        |           |
| Methyl tert-butyl ether (MTBE)                | 74.8   | 1.0 | ug/l  | 80.0                                     |               | 94 80-128   | 3   | 25        |           |
| Methylene chloride                            | 18.8   | 1.0 | ug/l  | 20.0                                     |               | 94 0.1-221  | 6   | 25        |           |
| o-Dichlorobenzene                             | 18.1   | 1.0 | ug/l  | 20.0                                     |               | 90 18-190   | 4   | 25        |           |
| o-Xylene                                      | 18.7   | 1.0 | ug/l  | 20.0                                     |               | 93 84-121   | 6   | 25        |           |
| p-Dichlorobenzene                             | 18.5   | 1.0 | ug/l  | 20.0                                     |               | 92 18-190   | 4   | 25        |           |
| Tert-butyl alcohol                            | 66.5   | 5.0 | ug/l  | 80.0                                     |               | 83 53-144   | 4   | 25        |           |
| Tetrachloroethene                             | 18.1   | 1.0 | ug/l  | 20.0                                     |               | 91 64-148   | 9   | 25        |           |
| Toluene                                       | 18.9   | 1.0 | ug/l  | 20.0                                     |               | 94 47-150   | 7   | 25        |           |
| trans-1,2-Dichloroethene                      | 18.0   | 1.0 | ug/l  | 20.0                                     |               | 90 54-156   | 10  | 25        |           |
| trans-1,3-Dichloropropene                     | 21.2   | 1.0 | ug/l  | 20.0                                     |               | 106 17-183  | 4   | 25        |           |
| Trichloroethene                               | 17.7   | 1.0 | ug/l  | 20.0                                     |               | 88 71-157   | 8   | 25        |           |
| Trichlorofluoromethane                        | 17.9   | 1.0 | ug/l  | 20.0                                     |               | 89 17-181   | 12  | 25        |           |
| Vinyl chloride                                | 16.7   | 1.0 | ug/l  | 20.0                                     |               | 84 0.1-251  | 11  | 25        |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 50.4   |     | ug/l  | 50.0                                     |               | 101 82-125  |     |           |           |
| 4-Bromofluorobenzene                          | 51.4   |     | ug/l  | 50.0                                     |               | 103 88-108  |     |           |           |
| Toluene-d8                                    | 51.7   |     | ug/l  | 50.0                                     |               | 103 92-112  |     |           |           |
| <b>LCS Dup (W4C0680-BSD2)</b>                 |        |     |       | <b>Prepared &amp; Analyzed: 03/08/24</b> |               |             |     |           |           |
| 2-Chloroethyl vinyl ether                     | 7.01   | 1.0 | ug/l  | 20.0                                     |               | 35 0.1-305  | 17  | 25        |           |
| Chloromethane                                 | ND     | 1.0 | ug/l  |                                          |               | 0.1-273     |     | 25        |           |
| <i>Surrogate(s)</i>                           |        |     |       |                                          |               |             |     |           |           |
| 1,2-Dichloroethane-d4                         | 50.9   |     | ug/l  | 50.0                                     |               | 102 82-125  |     |           |           |
| 4-Bromofluorobenzene                          | 49.4   |     | ug/l  | 50.0                                     |               | 99 88-108   |     |           |           |
| Toluene-d8                                    | 50.9   |     | ug/l  | 50.0                                     |               | 102 92-112  |     |           |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Influent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/29/2024 15:22

## Notes and Definitions

| Item   | Definition                                                                                                                                                                                                                                     |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN-IP  | Sample results for structural isomers may have contribution from their isomeric pair.                                                                                                                                                          |
| M-04   | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.                                                                                                      |
| M-05   | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.                                                                                                              |
| P      | Recovery outside of target range                                                                                                                                                                                                               |
| Q-08   | High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.                                                                                                                          |
| S-GC   | Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.                                                                                        |
| %REC   | Percent Recovery                                                                                                                                                                                                                               |
| Dil    | Dilution                                                                                                                                                                                                                                       |
| MDL    | Method Detection Limit                                                                                                                                                                                                                         |
| MRL    | Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) |
| ND     | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.                                                                                        |
| RPD    | Relative Percent Difference                                                                                                                                                                                                                    |
| Source | Sample that was matrix spiked or duplicated.                                                                                                                                                                                                   |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

### Report Prepared for:

Ryan Gasio  
Weck Laboratories Inc  
14859 Clark Avenue  
Hacienda Heights CA 91745

## REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

### Report Prepared Date:

March 19, 2024

### Report Information:

**Pace Project #: 10686145**  
**Sample Receipt Date: 03/12/2024**  
**Client Project #: 4C08056**  
**Client Sub PO #: N/A**  
**State Cert #: 2929**

### Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

### This report has been reviewed by:



March 19, 2024

Joanne Richardson,  
(612) 607-6453  
(612) 607-6444 (fax)



### Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

## **DISCUSSION**

This report presents the results from the analysis performed on one sample submitted by a representative of Weck Laboratories, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 1-liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 34-44%. Except for eight values, which were flagged "R" on the results tables, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 93-129% with relative percent differences of 0.9-10.6%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

## **REPORT OF LABORATORY ANALYSIS**

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## Minnesota Laboratory Certifications

| Authority      | Certificate #  | Authority       | Certificate #  |
|----------------|----------------|-----------------|----------------|
| A2LA           | 2926.01        | Missouri        | 10100          |
| Alabama        | 40770          | Montana         | CERT0092       |
| Alaska-DW      | MN00064        | Nebraska        | NE-OS-18-06    |
| Alaska-UST     | 17-009         | Nevada          | MN00064        |
| Arizona        | AZ0014         | New Hampshire   | 2081           |
| Arkansas - WW  | 88-0680        | New Jersey      | MN002          |
| Arkansas-DW    | MN00064        | New York        | 11647          |
| California     | 2929           | North Carolina- | 27700          |
| Colorado       | MN00064        | North Carolina- | 530            |
| Connecticut    | PH-0256        | North Dakota    | R-036          |
| Florida        | E87605         | Ohio-DW         | 41244          |
| Georgia        | 959            | Ohio-VAP (170   | CL101          |
| Hawaii         | MN00064        | Ohio-VAP (180   | CL110          |
| Idaho          | MN00064        | Oklahoma        | 9507           |
| Illinois       | 200011         | Oregon-Primary  | MN300001       |
| Indiana        | C-MN-01        | Oregon-Second   | MN200001       |
| Iowa           | 368            | Pennsylvania    | 68-00563       |
| Kansas         | E-10167        | Puerto Rico     | MN00064        |
| Kentucky-DW    | 90062          | South Carolina  | 74003          |
| Kentucky-WW    | 90062          | Tennessee       | TN02818        |
| Louisiana-DEQ  | AI-84596       | Texas           | T104704192     |
| Louisiana-DW   | MN00064        | Utah            | MN00064        |
| Maine          | MN00064        | Vermont         | VT-027053137   |
| Maryland       | 322            | Virginia        | 460163         |
| Michigan       | 9909           | Washington      | C486           |
| Minnesota      | 027-053-137    | West Virginia-D | 382            |
| Minnesota-Ag   | via MN 027-053 | West Virginia-D | 9952C          |
| Minnesota-Petr | 1240           | Wisconsin       | 999407970      |
| Mississippi    | MN00064        | Wyoming-UST     | via A2LA 2926. |

## REPORT OF LABORATORY ANALYSIS

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Report No.....10686145



**Pace Analytical Services, LLC**  
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Minneapolis, MN 55414  
Phone: 612.607.1700  
Fax: 612.607.6444  
[www.pacelabs.com](http://www.pacelabs.com)

## **Appendix A**

### **Sample Management**

## **REPORT OF LABORATORY ANALYSIS**

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Report No. 1616

Laboratory:

Perce Analytical Services - Minneapolis MN  
1700 Elm St. SE, Suite 200  
Minneapolis, MN 55414  
Phone: (612) 607-4700  
Fax: (612) 607-4700

Project: Encina Wastewater Authority

Project Number: 4C08056

Week Manager: Ryan J. Gasio

Sample Name

- Container(s)

4C08056-01/Meadowlark Influent

- 1-L Amber Glass-Dioxin

Matrix

Water

- 1-L Amber Glass-Dioxin

Sampled

Date/Time (24H)

3/7/24 7:00

Analyses Requested

Dioxins/Furans - EPA 8290

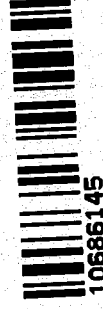
Turn Around Time: Normal  
Drinking Water: Yes / **NO**  
Need Transfer File (xls): **Yes** / No  
RJG

Tracking Number:

Comments

001

WO#: 10686145



Remarks / Special Comments:

Fedex

Page 14

Relinquished By

Relinquished By

Week Laboratories, Inc. - Chain of Custody - 4C08056

3/11/24

Date / Time Received By

Date / Time Received By

Sample Condition

Temperature: 1.0

Preserved: Yes / **NO**

Evidence Seal Intact: Yes / **NO**

Container Attacked: Yes / **NO**

Preserved at Lab: Yes / No



# ENV-FRM-MIN4-0150 v15 Sample Condition Upon Receipt

CLIENT NAME: Weck Laboratories

PROJECT #:

W0#: 10686145

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace  
☐ SpeedDee ☐ UPS ☐ USPS

PM: JMR Due Date: 03/26/24  
 CLIENT: Weck Laborat

TRACKING NUMBER: 7754 9947 9627 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Coole/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A  
 Packing Material: ☒ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet  
 Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☒ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)  
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

|                                                                                                                |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO    | Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| Correction Factor: <u>0.1</u> Cooler Temp Read w/Temp Blank: _____ °C                                          | Average Corrected Temp (no Temp Blank Only): <u>1.0</u> °C                                                                       |
| NOTE: Temp should be above freezing to 6°C.                                                                    |                                                                                                                                  |
| <input checked="" type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container |                                                                                                                                  |

|                                                                                                                                                                                                                      |                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USDA Regulated Soil: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Water Sample/Other (describe): _____                                                                                           | Initials & Date of Person Examining Contents: <u>JMW 3/12/24</u>                                                                                                   |
| Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.                                                                                        |                                                                                                                                                                    |

| LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA                                                                                                                                                                                                                  | YES                                 | NO                                  | N/A                                 | COMMENT(S)                                                                                                                                                                                                                                                                                                                                       |                |  |  |  |                   |          |           |            |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|--|--|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out?                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 1.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Chain of Custody Relinquished?                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 2.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Sampler Name and/or Signature on COC?                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 3.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Samples Arrived within Hold Time?                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Short Hold Time Analysis (<72 hr)?                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom<br><input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos<br><input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____ |                |  |  |  |                   |          |           |            |  |  |  |  |
| Rush Turn Around Time Requested?                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Sufficient Sample Volume?                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Correct Containers Used?                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 8.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| – Pace Containers Used?                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Containers Intact?                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 9.                                                                                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Field Filtered Volume Received for Dissolved Tests?                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. Is sediment visible in the dissolved container:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Is sufficient information available to reconcile the samples to the COC?<br>NOTE: If ID/Date/Time don't match fill out section 11.<br>Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other                                                                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. If NO, write ID/Date/Time of container below:<br><input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                              |                |  |  |  |                   |          |           |            |  |  |  |  |
| All containers needing acid/base preservation have been checked?<br>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)<br>Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water), and Dioxins/PFAS | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 12. Sample #:<br><input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate<br>Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.                                                                                                                                                                                                                             |                                     |                                     |                                     | <table border="1"> <thead> <tr> <th colspan="4">pH Paper Lot #</th> </tr> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-5 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                   | pH Paper Lot # |  |  |  | Residual Chlorine | 0-6 Roll | 0-5 Strip | 0-14 Strip |  |  |  |  |
| pH Paper Lot #                                                                                                                                                                                                                                                                                                                                           |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Residual Chlorine                                                                                                                                                                                                                                                                                                                                        | 0-6 Roll                            | 0-5 Strip                           | 0-14 Strip                          |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                          |                                     |                                     |                                     |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Headspace in Methyl Mercury Container?                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 13. <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Extra labels present on soil VOA or WIDRO containers?                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 14. <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142                                                                                                                                                                                                                                                                               |                |  |  |  |                   |          |           |            |  |  |  |  |
| Headspace in VOA Vials (greater than 6mm)?                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                  |                |  |  |  |                   |          |           |            |  |  |  |  |
| Trip Blanks Present?                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 15.                                                                                                                                                                                                                                                                                                                                              |                |  |  |  |                   |          |           |            |  |  |  |  |
| Trip Blank Custody Seals Present?                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Pace Trip Blank Lot # (if purchased): _____                                                                                                                                                                                                                                                                                                      |                |  |  |  |                   |          |           |            |  |  |  |  |

## CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Comments / Resolution: \_\_\_\_\_

Project Manager Review: Joanne Richardson Date: 3-12-24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMW Line: 4

ENV-FRM-MIN4-0142 v03\_Sample Condition Upon Receipt - Exceptions

Workorder #: 10686145

| No Temp Blank |                |              |
|---------------|----------------|--------------|
| Read Temp     | Corrected Temp | Average temp |
| 1.5           | 1.4            |              |
| 0.7           | 0.6            | 1.0          |
| 1.4           | 1.3            |              |
| 0.7           | 0.6            |              |

|                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM Notified of Out of Temp Cooler?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, indicate who was contacted, date and time.<br>If no, indicate reason why.<br><br><b>Multiple Cooler Project?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

If anything is OVER 6.0°C, you MUST document containers in this section HERE



| Tracking Number | Temperature |
|-----------------|-------------|
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |
|                 |             |

| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |
|                       |                |                 |

| pH Adjustment Log for Preserved Samples |                  |                 |               |               |                   |             |          |                               |                          |          |
|-----------------------------------------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
| Sample ID                               | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? |                          | Initials |
|                                         |                  |                 |               |               |                   |             |          | YES                           | NO                       |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |
|                                         |                  |                 |               |               |                   |             |          | <input type="checkbox"/>      | <input type="checkbox"/> |          |

Comments:



**Pace Analytical Services, LLC**  
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## Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

## REPORT OF LABORATORY ANALYSIS

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## **Appendix B**

### **Sample Analysis Summary**

## **REPORT OF LABORATORY ANALYSIS**

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## Method 8290 Sample Analysis Results

Client - Weck Laboratories Inc

|                        |                                |           |                  |
|------------------------|--------------------------------|-----------|------------------|
| Client's Sample ID     | 4C08056-01/Meadowlark Influent |           |                  |
| Lab Sample ID          | 10686145001                    |           |                  |
| Filename               | U240318B_11                    |           |                  |
| Injected By            | SMT                            |           |                  |
| Total Amount Extracted | 1050 mL                        | Matrix    | WATER            |
| % Moisture             | NA                             | Dilution  | NA               |
| Dry Weight Extracted   | NA                             | Collected | 03/07/2024 07:00 |
| ICAL ID                | U240206                        | Received  | 03/12/2024 08:50 |
| CCal Filename(s)       | U240318A_16 & U240318B_16      | Extracted | 03/13/2024 11:25 |
| Method Blank ID        | BLANK-111675                   | Analyzed  | 03/18/2024 23:17 |

| Native Isomers      | Conc<br>pg/L | EMPC<br>pg/L | RL<br>pg/L | Internal Standards                     | ng's<br>Added | Percent<br>Recovery |
|---------------------|--------------|--------------|------------|----------------------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND           | ----         | 10         | 2,3,7,8-TCDF-13C                       | 2.00          | 41                  |
| Total TCDF          | ND           | ----         | 10         | 2,3,7,8-TCDD-13C                       | 2.00          | 35 R                |
|                     |              |              |            | 1,2,3,7,8-PeCDF-13C                    | 2.00          | 38 R                |
| 2,3,7,8-TCDD        | ND           | ----         | 10         | 2,3,4,7,8-PeCDF-13C                    | 2.00          | 37 R                |
| Total TCDD          | ND           | ----         | 10         | 1,2,3,7,8-PeCDD-13C                    | 2.00          | 40                  |
|                     |              |              |            | 1,2,3,4,7,8-HxCDF-13C                  | 2.00          | 40                  |
| 1,2,3,7,8-PeCDF     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDF-13C                  | 2.00          | 44                  |
| 2,3,4,7,8-PeCDF     | ND           | ----         | 50         | 2,3,4,6,7,8-HxCDF-13C                  | 2.00          | 42                  |
| Total PeCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDF-13C                  | 2.00          | 43                  |
|                     |              |              |            | 1,2,3,4,7,8-HxCDD-13C                  | 2.00          | 34 R                |
| 1,2,3,7,8-PeCDD     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDD-13C                  | 2.00          | 41                  |
| Total PeCDD         | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDF-13C                | 2.00          | 43                  |
|                     |              |              |            | 1,2,3,4,7,8,9-HpCDF-13C                | 2.00          | 38 R                |
| 1,2,3,4,7,8-HxCDF   | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDD-13C                | 2.00          | 39 R                |
| 1,2,3,6,7,8-HxCDF   | ND           | ----         | 50         | OCDD-13C                               | 4.00          | 36 R                |
| 2,3,4,6,7,8-HxCDF   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND           | ----         | 50         | 1,2,3,4-TCDD-13C                       | 2.00          | NA                  |
| Total HxCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDD-13C                  | 2.00          | NA                  |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND           | ----         | 50         | 2,3,7,8-TCDD-37Cl4                     | 0.20          | 72                  |
| 1,2,3,6,7,8-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| Total HxCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND           | ----         | 50         | Total 2,3,7,8-TCDD                     |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND           | ----         | 50         | Equivalence: 0.00 pg/L                 |               |                     |
| Total HpCDF         | ND           | ----         | 50         | (Lower-bound - Using 2005 WHO Factors) |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND           | ----         | 50         |                                        |               |                     |
| Total HpCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| OCDF                | ND           | ----         | 100        |                                        |               |                     |
| OCDD                | ND           | ----         | 100        |                                        |               |                     |

Conc=Concentration(Totalsinclude2,3,7,8-substitutedisomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

R=Recoveryoutsidetargetrange

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Blank Analysis Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample Name        | DFBLKXQ                   | Matrix      | Water            |
| Lab Sample ID          | BLANK-111675              | Dilution    | NA               |
| Filename               | U240316B_15               | Extracted   | 03/13/2024 11:25 |
| Total Amount Extracted | 986 mL                    | Analyzed    | 03/16/2024 21:57 |
| ICAL ID                | U240206                   | Injected By | JF               |
| CCal Filename(s)       | U240316B_03 & U240316B_19 |             |                  |

| Native Isomers      | Conc<br>pg/L | EMPC<br>pg/L | RL<br>pg/L | Internal Standards                     | ng's<br>Added | Percent<br>Recovery |
|---------------------|--------------|--------------|------------|----------------------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND           | ----         | 10         | 2,3,7,8-TCDF-13C                       | 2.00          | 70                  |
| Total TCDF          | ND           | ----         | 10         | 2,3,7,8-TCDD-13C                       | 2.00          | 58                  |
|                     |              |              |            | 1,2,3,7,8-PeCDF-13C                    | 2.00          | 67                  |
| 2,3,7,8-TCDD        | ND           | ----         | 10         | 2,3,4,7,8-PeCDF-13C                    | 2.00          | 65                  |
| Total TCDD          | ND           | ----         | 10         | 1,2,3,7,8-PeCDD-13C                    | 2.00          | 64                  |
|                     |              |              |            | 1,2,3,4,7,8-HxCDF-13C                  | 2.00          | 64                  |
| 1,2,3,7,8-PeCDF     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDF-13C                  | 2.00          | 68                  |
| 2,3,4,7,8-PeCDF     | ND           | ----         | 50         | 2,3,4,6,7,8-HxCDF-13C                  | 2.00          | 70                  |
| Total PeCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDF-13C                  | 2.00          | 68                  |
|                     |              |              |            | 1,2,3,4,7,8-HxCDD-13C                  | 2.00          | 59                  |
| 1,2,3,7,8-PeCDD     | ND           | ----         | 50         | 1,2,3,6,7,8-HxCDD-13C                  | 2.00          | 66                  |
| Total PeCDD         | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDF-13C                | 2.00          | 62                  |
|                     |              |              |            | 1,2,3,4,7,8,9-HpCDF-13C                | 2.00          | 54                  |
| 1,2,3,4,7,8-HxCDF   | ND           | ----         | 50         | 1,2,3,4,6,7,8-HpCDD-13C                | 2.00          | 58                  |
| 1,2,3,6,7,8-HxCDF   | ND           | ----         | 50         | OCDD-13C                               | 4.00          | 55                  |
| 2,3,4,6,7,8-HxCDF   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND           | ----         | 50         | 1,2,3,4-TCDD-13C                       | 2.00          | NA                  |
| Total HxCDF         | ND           | ----         | 50         | 1,2,3,7,8,9-HxCDD-13C                  | 2.00          | NA                  |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND           | ----         | 50         | 2,3,7,8-TCDD-37Cl4                     | 0.20          | 68                  |
| 1,2,3,6,7,8-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND           | ----         | 50         |                                        |               |                     |
| Total HxCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND           | ----         | 50         | Total 2,3,7,8-TCDD                     |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND           | ----         | 50         | Equivalence: 0.00 pg/L                 |               |                     |
| Total HpCDF         | ND           | ----         | 50         | (Lower-bound - Using 2005 WHO Factors) |               |                     |
|                     |              |              |            |                                        |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND           | ----         | 50         |                                        |               |                     |
| Total HpCDD         | ND           | ----         | 50         |                                        |               |                     |
|                     |              |              |            |                                        |               |                     |
| OCDF                | ND           | ----         | 100        |                                        |               |                     |
| OCDD                | ND           | ----         | 100        |                                        |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

## REPORT OF LABORATORY ANALYSIS

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## Method 8290 Laboratory Control Spike Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample ID          | LCS-111676                | Matrix      | Water            |
| Filename               | U240316B_06               | Dilution    | NA               |
| Total Amount Extracted | 981 mL                    | Extracted   | 03/13/2024 11:25 |
| ICAL ID                | U240206                   | Analyzed    | 03/16/2024 15:02 |
| CCal Filename(s)       | U240316B_03 & U240316B_19 | Injected By | JF               |
| Method Blank ID        | BLANK-111675              |             |                  |

| Native Isomers      | Qs (ng) | Qm (ng) | % Rec. | Internal Standards      | ng's Added | Percent Recovery |
|---------------------|---------|---------|--------|-------------------------|------------|------------------|
| 2,3,7,8-TCDF        | 0.20    | 0.20    | 98     | 2,3,7,8-TCDF-13C        | 2.0        | 55               |
| Total TCDF          |         |         |        | 2,3,7,8-TCDD-13C        | 2.0        | 43               |
|                     |         |         |        | 1,2,3,7,8-PeCDF-13C     | 2.0        | 49               |
| 2,3,7,8-TCDD        | 0.20    | 0.23    | 117    | 2,3,4,7,8-PeCDF-13C     | 2.0        | 50               |
| Total TCDD          |         |         |        | 1,2,3,7,8-PeCDD-13C     | 2.0        | 47               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDF-13C   | 2.0        | 43               |
| 1,2,3,7,8-PeCDF     | 1.0     | 0.96    | 96     | 1,2,3,6,7,8-HxCDF-13C   | 2.0        | 45               |
| 2,3,4,7,8-PeCDF     | 1.0     | 0.97    | 97     | 2,3,4,6,7,8-HxCDF-13C   | 2.0        | 48               |
| Total PeCDF         |         |         |        | 1,2,3,7,8,9-HxCDF-13C   | 2.0        | 47               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDD-13C   | 2.0        | 40               |
| 1,2,3,7,8-PeCDD     | 1.0     | 0.93    | 93     | 1,2,3,6,7,8-HxCDD-13C   | 2.0        | 46               |
| Total PeCDD         |         |         |        | 1,2,3,4,6,7,8-HpCDF-13C | 2.0        | 41               |
|                     |         |         |        | 1,2,3,4,7,8,9-HpCDF-13C | 2.0        | 44               |
| 1,2,3,4,7,8-HxCDF   | 1.0     | 1.0     | 102    | 1,2,3,4,6,7,8-HpCDD-13C | 2.0        | 40               |
| 1,2,3,6,7,8-HxCDF   | 1.0     | 1.0     | 101    | OCDD-13C                | 4.0        | 38 R             |
| 2,3,4,6,7,8-HxCDF   | 1.0     | 1.1     | 109    |                         |            |                  |
| 1,2,3,7,8,9-HxCDF   | 1.0     | 1.00    | 100    | 1,2,3,4-TCDD-13C        | 2.0        | NA               |
| Total HxCDF         |         |         |        | 1,2,3,7,8,9-HxCDD-13C   | 2.0        | NA               |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,7,8-HxCDD   | 1.0     | 1.1     | 113    | 2,3,7,8-TCDD-37Cl4      | 0.20       | 62               |
| 1,2,3,6,7,8-HxCDD   | 1.0     | 1.0     | 104    |                         |            |                  |
| 1,2,3,7,8,9-HxCDD   | 1.0     | 1.1     | 110    |                         |            |                  |
| Total HxCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDF | 1.0     | 1.1     | 107    |                         |            |                  |
| 1,2,3,4,7,8,9-HpCDF | 1.0     | 1.0     | 102    |                         |            |                  |
| Total HpCDF         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDD | 1.0     | 0.99    | 99     |                         |            |                  |
| Total HpCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| OCDF                | 2.0     | 2.6     | 129    |                         |            |                  |
| OCDD                | 2.0     | 2.4     | 118    |                         |            |                  |

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
R = Recovery outside of target range

Y = RF averaging used in calculations  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

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## Method 8290 Laboratory Control Spike Results

|                        |                           |             |                  |
|------------------------|---------------------------|-------------|------------------|
| Lab Sample ID          | LCSD-111677               |             |                  |
| Filename               | U240316B_07               | Matrix      | Water            |
| Total Amount Extracted | 981 mL                    | Dilution    | NA               |
| ICAL ID                | U240206                   | Extracted   | 03/13/2024 11:25 |
| CCal Filename(s)       | U240316B_03 & U240316B_19 | Analyzed    | 03/16/2024 15:48 |
| Method Blank ID        | BLANK-111675              | Injected By | JF               |

| Native Isomers      | Qs (ng) | Qm (ng) | % Rec. | Internal Standards      | ng's Added | Percent Recovery |
|---------------------|---------|---------|--------|-------------------------|------------|------------------|
| 2,3,7,8-TCDF        | 0.20    | 0.22    | 109    | 2,3,7,8-TCDF-13C        | 2.0        | 58               |
| Total TCDF          |         |         |        | 2,3,7,8-TCDD-13C        | 2.0        | 49               |
|                     |         |         |        | 1,2,3,7,8-PeCDF-13C     | 2.0        | 57               |
| 2,3,7,8-TCDD        | 0.20    | 0.24    | 119    | 2,3,4,7,8-PeCDF-13C     | 2.0        | 54               |
| Total TCDD          |         |         |        | 1,2,3,7,8-PeCDD-13C     | 2.0        | 53               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDF-13C   | 2.0        | 49               |
| 1,2,3,7,8-PeCDF     | 1.0     | 1.0     | 104    | 1,2,3,6,7,8-HxCDF-13C   | 2.0        | 52               |
| 2,3,4,7,8-PeCDF     | 1.0     | 1.0     | 104    | 2,3,4,6,7,8-HxCDF-13C   | 2.0        | 54               |
| Total PeCDF         |         |         |        | 1,2,3,7,8,9-HxCDF-13C   | 2.0        | 52               |
|                     |         |         |        | 1,2,3,4,7,8-HxCDD-13C   | 2.0        | 47               |
| 1,2,3,7,8-PeCDD     | 1.0     | 0.97    | 97     | 1,2,3,6,7,8-HxCDD-13C   | 2.0        | 51               |
| Total PeCDD         |         |         |        | 1,2,3,4,6,7,8-HpCDF-13C | 2.0        | 48               |
|                     |         |         |        | 1,2,3,4,7,8,9-HpCDF-13C | 2.0        | 49               |
| 1,2,3,4,7,8-HxCDF   | 1.0     | 1.1     | 107    | 1,2,3,4,6,7,8-HpCDD-13C | 2.0        | 46               |
| 1,2,3,6,7,8-HxCDF   | 1.0     | 1.0     | 104    | OCDD-13C                | 4.0        | 44               |
| 2,3,4,6,7,8-HxCDF   | 1.0     | 1.1     | 110    |                         |            |                  |
| 1,2,3,7,8,9-HxCDF   | 1.0     | 1.1     | 105    | 1,2,3,4-TCDD-13C        | 2.0        | NA               |
| Total HxCDF         |         |         |        | 1,2,3,7,8,9-HxCDD-13C   | 2.0        | NA               |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,7,8-HxCDD   | 1.0     | 1.2     | 117    | 2,3,7,8-TCDD-37Cl4      | 0.20       | 70               |
| 1,2,3,6,7,8-HxCDD   | 1.0     | 1.1     | 108    |                         |            |                  |
| 1,2,3,7,8,9-HxCDD   | 1.0     | 1.1     | 112    |                         |            |                  |
| Total HxCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDF | 1.0     | 1.1     | 111    |                         |            |                  |
| 1,2,3,4,7,8,9-HpCDF | 1.0     | 1.1     | 111    |                         |            |                  |
| Total HpCDF         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| 1,2,3,4,6,7,8-HpCDD | 1.0     | 1.1     | 106    |                         |            |                  |
| Total HpCDD         |         |         |        |                         |            |                  |
|                     |         |         |        |                         |            |                  |
| OCDF                | 2.0     | 2.5     | 126    |                         |            |                  |
| OCDD                | 2.0     | 2.3     | 116    |                         |            |                  |

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
R = Recovery outside of target range

Y = RF averaging used in calculations  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

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## Method 8290

### Spike Recovery Relative Percent Difference (RPD) Results

Client Weck Laboratories Inc

Spike 1 ID LCS-111676  
Spike 1 Filename U240316B\_06

Spike 2 ID LCSD-111677  
Spike 2 Filename U240316B\_07

| Compound            | Spike 1<br>%REC | Spike 2<br>%REC | %RPD |
|---------------------|-----------------|-----------------|------|
| 2,3,7,8-TCDF        | 98              | 109             | 10.6 |
| 2,3,7,8-TCDD        | 117             | 119             | 1.7  |
| 1,2,3,7,8-PeCDF     | 96              | 104             | 8.0  |
| 2,3,4,7,8-PeCDF     | 97              | 104             | 7.0  |
| 1,2,3,7,8-PeCDD     | 93              | 97              | 4.2  |
| 1,2,3,4,7,8-HxCDF   | 102             | 107             | 4.8  |
| 1,2,3,6,7,8-HxCDF   | 101             | 104             | 2.9  |
| 2,3,4,6,7,8-HxCDF   | 109             | 110             | 0.9  |
| 1,2,3,7,8,9-HxCDF   | 100             | 105             | 4.9  |
| 1,2,3,4,7,8-HxCDD   | 113             | 117             | 3.5  |
| 1,2,3,6,7,8-HxCDD   | 104             | 108             | 3.8  |
| 1,2,3,7,8,9-HxCDD   | 110             | 112             | 1.8  |
| 1,2,3,4,6,7,8-HpCDF | 107             | 111             | 3.7  |
| 1,2,3,4,7,8,9-HpCDF | 102             | 111             | 8.5  |
| 1,2,3,4,6,7,8-HpCDD | 99              | 106             | 6.8  |
| OCDF                | 129             | 126             | 2.4  |
| OCDD                | 118             | 116             | 1.7  |

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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# ENCINA WASTEWATER AUTHORITY

A Public Agency

6200 Avenida Encinas  
Carlsbad, CA 92011-1095  
Telephone (760) 438-3941  
FAX (760) 438-3861 (Plant)  
(760) 431-7493 (Admin)

## SAMPLE RESULTS REPORT

Report Date : 6/10/2024

| REPORT TO                                                                                      |              | ELAP Certification No. 1441 |        | 240409013 |                  |
|------------------------------------------------------------------------------------------------|--------------|-----------------------------|--------|-----------|------------------|
| Vallecitos Water District<br>201 Vallecitos de Oro<br>San Marcos, CA 92069<br>Attn: Matt Wiese |              |                             |        |           |                  |
| Sample ID                                                                                      | Sample Point | Analyte Name                | Result | Units     | Method Reference |

|         |                     |                   |         |                       |             |
|---------|---------------------|-------------------|---------|-----------------------|-------------|
| AB57240 | Meadowlark Effluent |                   |         | Collected: 03/06/2024 | Time: 07:00 |
|         |                     | Zinc by ICP       | 0.015   | mg/L                  | EPA 200.7   |
|         |                     | Thallium by ICP   | <0.008  | mg/L                  | EPA 200.7   |
|         |                     | Selenium by ICP   | <0.01   | mg/L                  | EPA 200.7   |
|         |                     | Nickel by ICP     | <0.006  | mg/L                  | EPA 200.7   |
|         |                     | Molybdenum by ICP | <0.006  | mg/L                  | EPA 200.7   |
|         |                     | Mercury           | <0.0002 | mg/L                  | EPA 245.1   |
|         |                     | Cyanide, Total    | <0.005  | mg/L                  | SM4500CN-E  |
|         |                     | Chromium by ICP   | <0.005  | mg/L                  | EPA 200.7   |
|         |                     | Cadmium by ICP    | <0.006  | mg/L                  | EPA 200.7   |
|         |                     | Arsenic by ICP    | <0.01   | mg/L                  | EPA 200.7   |
|         |                     | Antimony by ICP   | <0.012  | mg/L                  | EPA 200.7   |

Certified By:

*Rachael Morgan*

Date:

*12/26/24*

Rachael Morgan, Laboratory Manager



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Rachael Morgan  
Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, California 92011

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## JOB DESCRIPTION

2024 Annual Meadowlark Effluent  
Priority Pollutant Scan

## JOB NUMBER

570-175684-1

## Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

## Authorization



Authorized for release by  
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## Definitions/Glossary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

### Glossary

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

## Case Narrative

Client: Encina Wastewater Authority  
Project: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1

**Job ID: 570-175684-1**

**Eurofins Calscience**

### **Job Narrative 570-175684-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

#### **Receipt**

The sample was received on 3/7/2024 7:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

#### **Metals**

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

#### **General Chemistry**

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

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Detection Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

Client Sample ID: Meadowlark Effluent      Lab Sample ID: 570-175684-1

No Detections.

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

This Detection Summary does not include radiochemical test results.



Client Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

|                                       |        |           |       |        |      |   |                             |                |         |  |
|---------------------------------------|--------|-----------|-------|--------|------|---|-----------------------------|----------------|---------|--|
| Client Sample ID: Meadowlark Effluent |        |           |       |        |      |   | Lab Sample ID: 570-175684-1 |                |         |  |
| Date Collected: 03/06/24 07:00        |        |           |       |        |      |   | Matrix: Water               |                |         |  |
| Date Received: 03/07/24 07:00         |        |           |       |        |      |   |                             |                |         |  |
| Analyte                               | Result | Qualifier | RL    | MDL    | Unit | D | Prepared                    | Analyzed       | Dil Fac |  |
| Silver                                | ND     |           | 0.010 | 0.0034 | mg/L |   | 03/12/24 07:17              | 03/12/24 18:41 | 1       |  |

Client Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

|                                       |        |           |      |      |      |   |                             |                |         |  |
|---------------------------------------|--------|-----------|------|------|------|---|-----------------------------|----------------|---------|--|
| Client Sample ID: Meadowlark Effluent |        |           |      |      |      |   | Lab Sample ID: 570-175684-1 |                |         |  |
| Date Collected: 03/06/24 07:00        |        |           |      |      |      |   | Matrix: Water               |                |         |  |
| Date Received: 03/07/24 07:00         |        |           |      |      |      |   |                             |                |         |  |
| Analyte                               | Result | Qualifier | RL   | MDL  | Unit | D | Prepared                    | Analyzed       | Dil Fac |  |
| Beryllium                             | ND     |           | 0.50 | 0.22 | ug/L |   | 03/11/24 12:37              | 03/11/24 16:50 | 1       |  |

Client Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

Method: EPA 245.1 - Mercury (CVAA)

|                                       |        |           |         |         |                             |   |                |                |         |
|---------------------------------------|--------|-----------|---------|---------|-----------------------------|---|----------------|----------------|---------|
| Client Sample ID: Meadowlark Effluent |        |           |         |         | Lab Sample ID: 570-175684-1 |   |                |                |         |
| Date Collected: 03/06/24 07:00        |        |           |         |         | Matrix: Water               |   |                |                |         |
| Date Received: 03/07/24 07:00         |        |           |         |         |                             |   |                |                |         |
| Analyte                               | Result | Qualifier | RL      | MDL     | Unit                        | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                               | ND     |           | 0.00020 | 0.00012 | mg/L                        |   | 03/11/24 10:58 | 03/12/24 14:39 | 1       |

Client Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

General Chemistry

|                                       |        |           |     |     |                             |   |          |                |         |
|---------------------------------------|--------|-----------|-----|-----|-----------------------------|---|----------|----------------|---------|
| Client Sample ID: Meadowlark Effluent |        |           |     |     | Lab Sample ID: 570-175684-1 |   |          |                |         |
| Date Collected: 03/06/24 07:00        |        |           |     |     | Matrix: Water               |   |          |                |         |
| Date Received: 03/07/24 07:00         |        |           |     |     |                             |   |          |                |         |
| Analyte                               | Result | Qualifier | RL  | MDL | Unit                        | D | Prepared | Analyzed       | Dil Fac |
| Cyanide, Total (EPA Kelada 01)        | ND     |           | 5.0 | 2.5 | ug/L                        |   |          | 03/18/24 13:43 | 1       |

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

## Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-419159/1-A  
Matrix: Water  
Analysis Batch: 419645

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 419159

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Silver  | ND        |              | 0.010 | 0.0034 | mg/L |   | 03/12/24 07:17 | 03/12/24 17:52 | 1       |

Lab Sample ID: LCS 570-419159/2-A  
Matrix: Water  
Analysis Batch: 419645

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 419159

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Silver  | 0.250       | 0.254      |               | mg/L |   | 101  | 85 - 115    |

Lab Sample ID: LCSD 570-419159/3-A  
Matrix: Water  
Analysis Batch: 419645

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total Recoverable  
Prep Batch: 419159

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Silver  | 0.250       | 0.249       |                | mg/L |   | 100  | 85 - 115    | 2   | 20        |

Lab Sample ID: 570-175777-A-1-B MS  
Matrix: Water  
Analysis Batch: 419645

Client Sample ID: Matrix Spike  
Prep Type: Total Recoverable  
Prep Batch: 419159

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Silver  | ND            |                  | 0.250       | 0.252     |              | mg/L |   | 101  | 80 - 120    |

Lab Sample ID: 570-175777-A-1-C MSD  
Matrix: Water  
Analysis Batch: 419645

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total Recoverable  
Prep Batch: 419159

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Silver  | ND            |                  | 0.250       | 0.251      |               | mg/L |   | 100  | 80 - 120    | 0   | 20        |

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-418860/1-A  
Matrix: Water  
Analysis Batch: 419001

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 418860

| Analyte   | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Beryllium | ND        |              | 0.50 | 0.22 | ug/L |   | 03/11/24 12:37 | 03/11/24 16:35 | 1       |

Lab Sample ID: LCS 570-418860/2-A  
Matrix: Water  
Analysis Batch: 419001

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 418860

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Beryllium | 80.0        | 80.3       |               | ug/L |   | 100  | 85 - 115    |

# QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 570-418860/3-A  
Matrix: Water  
Analysis Batch: 419001

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total Recoverable  
Prep Batch: 418860

| Analyte   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Beryllium | 80.0        | 80.5        |                | ug/L |   | 101  | 85 - 115    | 0   | 20        |

Lab Sample ID: 570-175684-1 MS  
Matrix: Water  
Analysis Batch: 419001

Client Sample ID: Meadowlark Effluent  
Prep Type: Total Recoverable  
Prep Batch: 418860

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Beryllium | ND            |                  | 80.0        | 76.9      |              | ug/L |   | 96   | 80 - 120    |

Lab Sample ID: 570-175684-1 MSD  
Matrix: Water  
Analysis Batch: 419001

Client Sample ID: Meadowlark Effluent  
Prep Type: Total Recoverable  
Prep Batch: 418860

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Beryllium | ND            |                  | 80.0        | 75.6       |               | ug/L |   | 94   | 80 - 120    | 2   | 20        |

## Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-418822/1-A  
Matrix: Water  
Analysis Batch: 419410

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | MB Result | MB Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.00020 | 0.00012 | mg/L |   | 03/11/24 10:58 | 03/12/24 14:07 | 1       |

Lab Sample ID: LCS 570-418822/2-A  
Matrix: Water  
Analysis Batch: 419480

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00800     | 0.00776    |               | mg/L |   | 97   | 85 - 115    |

Lab Sample ID: LCSD 570-418822/3-A  
Matrix: Water  
Analysis Batch: 419480

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Mercury | 0.00800     | 0.00762     |                | mg/L |   | 95   | 85 - 115    | 2   | 10        |

Lab Sample ID: 570-175227-B-3-C MS  
Matrix: Water  
Analysis Batch: 419410

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 418822

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | ND            |                  | 0.00800     | 0.00776   |              | mg/L |   | 97   | 85 - 115    |

## QC Sample Results

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

### Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 570-175227-B-3-D MSD

Matrix: Water

Analysis Batch: 419410

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 418822

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | ND            |                  | 0.00800     | 0.00797    |               | mg/L |   | 100  | 85 - 115    | 3   | 10        |

### Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 570-421421/11

Matrix: Water

Analysis Batch: 421421

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Cyanide, Total | ND        |              | 5.0 | 2.5 | ug/L |   |          | 03/18/24 12:39 | 1       |

Lab Sample ID: LCS 570-421421/12

Matrix: Water

Analysis Batch: 421421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 250         | 250        |               | ug/L |   | 100  | 90 - 110    |

Lab Sample ID: LCSD 570-421421/13

Matrix: Water

Analysis Batch: 421421

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 |
|----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 250         | 248         |                | ug/L |   | 99   | 90 - 110    | 1   | 20        |

Lab Sample ID: MRL 570-421421/10

Matrix: Water

Analysis Batch: 421421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 5.00        | 5.36       |               | ug/L |   | 107  | 50 - 150    |

Lab Sample ID: 570-175835-L-1 MS

Matrix: Water

Analysis Batch: 421421

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Cyanide, Total | ND            |                  | 250         | 270       |              | ug/L |   | 108  | 70 - 130    |

Lab Sample ID: 570-175835-L-1 MSD

Matrix: Water

Analysis Batch: 421421

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | ND            |                  | 250         | 291        |               | ug/L |   | 117  | 70 - 130    | 7   | 30        |

# QC Association Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

## Metals

### Prep Batch: 418822

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 570-175684-1         | Meadowlark Effluent    | Total/NA  | Water  | 245.1  |            |
| MB 570-418822/1-A    | Method Blank           | Total/NA  | Water  | 245.1  |            |
| LCS 570-418822/2-A   | Lab Control Sample     | Total/NA  | Water  | 245.1  |            |
| LCSD 570-418822/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 245.1  |            |
| 570-175227-B-3-C MS  | Matrix Spike           | Total/NA  | Water  | 245.1  |            |
| 570-175227-B-3-D MSD | Matrix Spike Duplicate | Total/NA  | Water  | 245.1  |            |

### Prep Batch: 418860

| Lab Sample ID       | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------|--------|------------|
| 570-175684-1        | Meadowlark Effluent    | Total Recoverable | Water  | 200.8  |            |
| MB 570-418860/1-A   | Method Blank           | Total Recoverable | Water  | 200.8  |            |
| LCS 570-418860/2-A  | Lab Control Sample     | Total Recoverable | Water  | 200.8  |            |
| LCSD 570-418860/3-A | Lab Control Sample Dup | Total Recoverable | Water  | 200.8  |            |
| 570-175684-1 MS     | Meadowlark Effluent    | Total Recoverable | Water  | 200.8  |            |
| 570-175684-1 MSD    | Meadowlark Effluent    | Total Recoverable | Water  | 200.8  |            |

### Analysis Batch: 419001

| Lab Sample ID       | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------|--------|------------|
| 570-175684-1        | Meadowlark Effluent    | Total Recoverable | Water  | 200.8  | 418860     |
| MB 570-418860/1-A   | Method Blank           | Total Recoverable | Water  | 200.8  | 418860     |
| LCS 570-418860/2-A  | Lab Control Sample     | Total Recoverable | Water  | 200.8  | 418860     |
| LCSD 570-418860/3-A | Lab Control Sample Dup | Total Recoverable | Water  | 200.8  | 418860     |
| 570-175684-1 MS     | Meadowlark Effluent    | Total Recoverable | Water  | 200.8  | 418860     |
| 570-175684-1 MSD    | Meadowlark Effluent    | Total Recoverable | Water  | 200.8  | 418860     |

### Prep Batch: 419159

| Lab Sample ID        | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 570-175684-1         | Meadowlark Effluent    | Total Recoverable | Water  | 200.7  |            |
| MB 570-419159/1-A    | Method Blank           | Total Recoverable | Water  | 200.7  |            |
| LCS 570-419159/2-A   | Lab Control Sample     | Total Recoverable | Water  | 200.7  |            |
| LCSD 570-419159/3-A  | Lab Control Sample Dup | Total Recoverable | Water  | 200.7  |            |
| 570-175777-A-1-B MS  | Matrix Spike           | Total Recoverable | Water  | 200.7  |            |
| 570-175777-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 200.7  |            |

### Analysis Batch: 419410

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 570-175684-1         | Meadowlark Effluent    | Total/NA  | Water  | 245.1  | 418822     |
| MB 570-418822/1-A    | Method Blank           | Total/NA  | Water  | 245.1  | 418822     |
| 570-175227-B-3-C MS  | Matrix Spike           | Total/NA  | Water  | 245.1  | 418822     |
| 570-175227-B-3-D MSD | Matrix Spike Duplicate | Total/NA  | Water  | 245.1  | 418822     |

### Analysis Batch: 419480

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 570-418822/2-A  | Lab Control Sample     | Total/NA  | Water  | 245.1  | 418822     |
| LCSD 570-418822/3-A | Lab Control Sample Dup | Total/NA  | Water  | 245.1  | 418822     |

### Analysis Batch: 419645

| Lab Sample ID      | Client Sample ID    | Prep Type         | Matrix | Method        | Prep Batch |
|--------------------|---------------------|-------------------|--------|---------------|------------|
| 570-175684-1       | Meadowlark Effluent | Total Recoverable | Water  | 200.7 Rev 4.4 | 419159     |
| MB 570-419159/1-A  | Method Blank        | Total Recoverable | Water  | 200.7 Rev 4.4 | 419159     |
| LCS 570-419159/2-A | Lab Control Sample  | Total Recoverable | Water  | 200.7 Rev 4.4 | 419159     |

Eurofins Calscience



## QC Association Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

### Metals (Continued)

#### Analysis Batch: 419645 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type         | Matrix | Method        | Prep Batch |
|----------------------|------------------------|-------------------|--------|---------------|------------|
| LCSD 570-419159/3-A  | Lab Control Sample Dup | Total Recoverable | Water  | 200.7 Rev 4.4 | 419159     |
| 570-175777-A-1-B MS  | Matrix Spike           | Total Recoverable | Water  | 200.7 Rev 4.4 | 419159     |
| 570-175777-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 200.7 Rev 4.4 | 419159     |

### General Chemistry

#### Analysis Batch: 421421

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 570-175684-1       | Meadowlark Effluent    | Total/NA  | Water  | Kelada 01 |            |
| MB 570-421421/11   | Method Blank           | Total/NA  | Water  | Kelada 01 |            |
| LCS 570-421421/12  | Lab Control Sample     | Total/NA  | Water  | Kelada 01 |            |
| LCSD 570-421421/13 | Lab Control Sample Dup | Total/NA  | Water  | Kelada 01 |            |
| MRL 570-421421/10  | Lab Control Sample     | Total/NA  | Water  | Kelada 01 |            |
| 570-175835-L-1 MS  | Matrix Spike           | Total/NA  | Water  | Kelada 01 |            |
| 570-175835-L-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | Kelada 01 |            |

Lab Chronicle

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

Client Sample ID: Meadowlark Effluent  
Date Collected: 03/06/24 07:00  
Date Received: 03/07/24 07:00

Lab Sample ID: 570-175684-1  
Matrix: Water

| Prep Type         | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab       |
|-------------------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total Recoverable | Prep       | 200.7                   |     |            | 50 mL          | 50 mL        | 419159       | 03/12/24 07:17       | JP8N    | EET CAL 4 |
| Total Recoverable | Analysis   | 200.7 Rev 4.4           |     | 1          |                |              | 419645       | 03/12/24 18:41       | K1UV    | EET CAL 4 |
|                   |            | Instrument ID: ICP11    |     |            |                |              |              |                      |         |           |
| Total Recoverable | Prep       | 200.8                   |     |            | 50 mL          | 50 mL        | 418860       | 03/11/24 12:37       | JP8N    | EET CAL 4 |
| Total Recoverable | Analysis   | 200.8                   |     | 1          |                |              | 419001       | 03/11/24 16:50       | P1R     | EET CAL 4 |
|                   |            | Instrument ID: ICPMS10  |     |            |                |              |              |                      |         |           |
| Total/NA          | Prep       | 245.1                   |     |            | 25 mL          | 50 mL        | 418822       | 03/11/24 10:58       | VCN7    | EET CAL 4 |
| Total/NA          | Analysis   | 245.1                   |     | 1          |                |              | 419410       | 03/12/24 14:39       | ECX6    | EET CAL 4 |
|                   |            | Instrument ID: HG9      |     |            |                |              |              |                      |         |           |
| Total/NA          | Analysis   | Kelada 01               |     | 1          | 8 mL           | 8 mL         | 421421       | 03/18/24 13:43       | GG0B    | EET CAL 4 |
|                   |            | Instrument ID: LACHAT01 |     |            |                |              |              |                      |         |           |

Laboratory References:  
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

| Authority  | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| California | State   | 3082                  | 07-31-24        |

- 1
- 2
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- 13
- 14

## Method Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

| Method        | Method Description                               | Protocol | Laboratory |
|---------------|--------------------------------------------------|----------|------------|
| 200.7 Rev 4.4 | Metals (ICP)                                     | EPA      | EET CAL 4  |
| 200.8         | Metals (ICP/MS)                                  | EPA      | EET CAL 4  |
| 245.1         | Mercury (CVAA)                                   | EPA      | EET CAL 4  |
| Kelada 01     | Cyanide, Total, Acid Dissociable and Thiocyanate | EPA      | EET CAL 4  |
| 200.7         | Preparation, Total Recoverable Metals            | EPA      | EET CAL 4  |
| 200.8         | Preparation, Total Recoverable Metals            | EPA      | EET CAL 4  |
| 245.1         | Preparation, Mercury                             | EPA      | EET CAL 4  |

### Protocol References:

EPA = US Environmental Protection Agency

### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Encina Wastewater Authority  
Project/Site: 2024 Annual Meadowlark Effluent

Job ID: 570-175684-1  
SDG: Priority Pollutant Scan

| Lab Sample ID | Client Sample ID    | Matrix | Collected      | Received       |
|---------------|---------------------|--------|----------------|----------------|
| 570-175684-1  | Meadowlark Effluent | Water  | 03/06/24 07:00 | 03/07/24 07:00 |

- 1
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- 3
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## Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-175684-1  
SDG Number: Priority Pollutant Scan

Login Number: 175684

List Number: 1

Creator: Le, Sunny

List Source: Eurofins Calscience

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

**Work Orders:** 4C07028

**Project:** 2024 Annual Meadowlark Effluent Priority Pollutant Scan

**Attn:** Rachael Morgan

**Client:** Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Report Date:** 4/08/2024

**Received Date:** 3/7/2024

**Turnaround Time:** Normal

**Phones:** (760) 438-3941

**Fax:**

**P.O. #:** 2024-0066

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.*

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 3/07/24 with the Chain-of-Custody document. The samples were received in good condition, at 1.5 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Ryan J. Gasio  
Project Manager





Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

# Certificate of Analysis

FINAL REPORT

**Project Number:** 2024 Annual Meadowlark Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 15:58

## Sample Summary

| Sample Name         | Sampled By | Lab ID     | Matrix | Sampled        | Qualifiers |
|---------------------|------------|------------|--------|----------------|------------|
| Meadowlark Effluent | CD         | 4C07028-01 | Water  | 03/06/24 07:00 |            |

## Sample Results

Sample: Meadowlark Effluent

Sampled: 03/06/24 7:00 by CD

4C07028-01 (Water)

| Analyte                                 | Result | MRL                           | Units | Dil                             | Analyzed | Qualifier           |
|-----------------------------------------|--------|-------------------------------|-------|---------------------------------|----------|---------------------|
| <b>Metals by EPA 200 Series Methods</b> |        |                               |       |                                 |          |                     |
| <b>Method:</b> EPA 200.8                |        | <b>Instr:</b> ICPMS06         |       |                                 |          |                     |
| <b>Batch ID:</b> W4C0877                |        | <b>Preparation:</b> EPA 200.2 |       | <b>Prepared:</b> 03/12/24 17:08 |          | <b>Analyst:</b> tyc |
| Copper, Total                           | 13     | 0.50                          | ug/l  | 1                               | 03/15/24 |                     |
| Lead, Total                             | ND     | 0.20                          | ug/l  | 1                               | 03/15/24 |                     |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 15:58

## Sample Results PACE-MN

Sample: Meadowlark Effluent  
4C07028-01 (Water)

Sampled: 03/06/24 7:00 by CD

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

### Dioxins and Furans by Isotope Dilution HRGC/HRMS

**Method:** SW8290 **Batch ID:** 37218 **Prepared:** 03/13/24 11:25 **Analyst:** SMT

|                     |    |     |      |   |          |
|---------------------|----|-----|------|---|----------|
| 1,2,3,4,6,7,8-HpCDD | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,6,7,8-HpCDF | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,7,8,9-HpCDF | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,7,8-HxCDD   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,4,7,8-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,6,7,8-HxCDD   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,6,7,8-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8,9-HxCDD   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8,9-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8-PeCDD     | ND | 48  | pg/L | 1 | 03/18/24 |
| 1,2,3,7,8-PeCDF     | ND | 48  | pg/L | 1 | 03/18/24 |
| 2,3,4,6,7,8-HxCDF   | ND | 48  | pg/L | 1 | 03/18/24 |
| 2,3,4,7,8-PeCDF     | ND | 48  | pg/L | 1 | 03/18/24 |
| 2,3,7,8-TCDD        | ND | 9.6 | pg/L | 1 | 03/18/24 |
| 2,3,7,8-TCDF        | ND | 9.6 | pg/L | 1 | 03/18/24 |
| OCDD                | ND | 96  | pg/L | 1 | 03/18/24 |
| OCDF                | ND | 96  | pg/L | 1 | 03/18/24 |
| Total HpCDD         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total HpCDF         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total HxCDD         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total HxCDF         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total PeCDD         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total PeCDF         | ND | 48  | pg/L | 1 | 03/18/24 |
| Total TCDD          | ND | 9.6 | pg/L | 1 | 03/18/24 |
| Total TCDF          | ND | 9.6 | pg/L | 1 | 03/18/24 |

### Surrogate(s)

|                         |     |            |          |
|-------------------------|-----|------------|----------|
| 1,2,3,4,6,7,8-HpCDD-13C | 50% | 40.0-135.0 | 03/18/24 |
| 1,2,3,4,6,7,8-HpCDF-13C | 53% | 40.0-135.0 | 03/18/24 |
| 1,2,3,4,7,8,9-HpCDF-13C | 50% | 40.0-135.0 | 03/18/24 |
| 1,2,3,4,7,8-HxCDD-13C   | 49% | 40.0-135.0 | 03/18/24 |
| 1,2,3,4,7,8-HxCDF-13C   | 52% | 40.0-135.0 | 03/18/24 |
| 1,2,3,4-TCDD-13C        | 22% | 40.0-135.0 | 03/18/24 |
| 1,2,3,6,7,8-HxCDD-13C   | 56% | 40.0-135.0 | 03/18/24 |
| 1,2,3,6,7,8-HxCDF-13C   | 60% | 40.0-135.0 | 03/18/24 |
| 1,2,3,7,8,9-HxCDD-13C   | 20% | 40.0-135.0 | 03/18/24 |
| 1,2,3,7,8,9-HxCDF-13C   | 56% | 40.0-135.0 | 03/18/24 |
| 1,2,3,7,8-PeCDD-13C     | 47% | 40.0-135.0 | 03/18/24 |
| 1,2,3,7,8-PeCDF-13C     | 49% | 40.0-135.0 | 03/18/24 |

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## Sample Results PACE-MN

(Continued)

Sample: Meadowlark Effluent  
4C07028-01 (Water)

Sampled: 03/06/24 7:00 by CD  
(Continued)

| Analyte                                                             | Result | MDL | MRL        | Units | Dil | Analyzed | Qualifier |
|---------------------------------------------------------------------|--------|-----|------------|-------|-----|----------|-----------|
| <b>Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)</b> |        |     |            |       |     |          |           |
| 2,3,4,6,7,8-HxCDF-13C                                               | 56%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| 2,3,4,7,8-PeCDF-13C                                                 | 48%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| 2,3,7,8-TCDD-13C                                                    | 44%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| 2,3,7,8-TCDD-37Cl4                                                  | 73%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| 2,3,7,8-TCDF-13C                                                    | 53%    |     | 40.0-135.0 |       |     | 03/18/24 |           |
| OCDD-13C                                                            | 45%    |     | 40.0-135.0 |       |     | 03/18/24 |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 15:58

## Quality Control Results

Dioxins and Furans by Isotope Dilution HRGC/HRMS

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | Limits | RPD | Limit | Qualifier |
|---------|--------|-----|-------|-------------|---------------|------|--------|-----|-------|-----------|
|---------|--------|-----|-------|-------------|---------------|------|--------|-----|-------|-----------|

**Batch: 37218 - SW8290**

**BLK (BLANK-111675)**

**Prepared: 03/13/24 Analyzed: 03/16/24**

|                     |    |     |      |
|---------------------|----|-----|------|
| 1,2,3,4,6,7,8-HpCDD | ND | 51  | pg/L |
| 1,2,3,4,6,7,8-HpCDF | ND | 51  | pg/L |
| 1,2,3,4,7,8,9-HpCDF | ND | 51  | pg/L |
| 1,2,3,4,7,8-HxCDD   | ND | 51  | pg/L |
| 1,2,3,4,7,8-HxCDF   | ND | 51  | pg/L |
| 1,2,3,6,7,8-HxCDD   | ND | 51  | pg/L |
| 1,2,3,6,7,8-HxCDF   | ND | 51  | pg/L |
| 1,2,3,7,8,9-HxCDD   | ND | 51  | pg/L |
| 1,2,3,7,8,9-HxCDF   | ND | 51  | pg/L |
| 1,2,3,7,8-PeCDD     | ND | 51  | pg/L |
| 1,2,3,7,8-PeCDF     | ND | 51  | pg/L |
| 2,3,4,6,7,8-HxCDF   | ND | 51  | pg/L |
| 2,3,4,7,8-PeCDF     | ND | 51  | pg/L |
| 2,3,7,8-TCDD        | ND | 10  | pg/L |
| 2,3,7,8-TCDF        | ND | 10  | pg/L |
| OCDD                | ND | 100 | pg/L |
| OCDF                | ND | 100 | pg/L |
| Total HpCDD         | ND | 51  | pg/L |
| Total HpCDF         | ND | 51  | pg/L |
| Total HxCDD         | ND | 51  | pg/L |
| Total HxCDF         | ND | 51  | pg/L |
| Total PeCDD         | ND | 51  | pg/L |
| Total PeCDF         | ND | 51  | pg/L |
| Total TCDD          | ND | 10  | pg/L |
| Total TCDF          | ND | 10  | pg/L |

Surrogate(s)

|                         |      |      |      |    |            |
|-------------------------|------|------|------|----|------------|
| 1,2,3,4,6,7,8-HpCDD-13C | 1200 | pg/L | 2000 | 58 | 40.0-135.0 |
| 1,2,3,4,6,7,8-HpCDF-13C | 1300 | pg/L | 2000 | 62 | 40.0-135.0 |
| 1,2,3,4,7,8,9-HpCDF-13C | 1100 | pg/L | 2000 | 54 | 40.0-135.0 |
| 1,2,3,4,7,8-HxCDD-13C   | 1200 | pg/L | 2000 | 59 | 40.0-135.0 |
| 1,2,3,4,7,8-HxCDF-13C   | 1300 | pg/L | 2000 | 64 | 40.0-135.0 |
| 1,2,3,6,7,8-HxCDD-13C   | 1300 | pg/L | 2000 | 66 | 40.0-135.0 |
| 1,2,3,6,7,8-HxCDF-13C   | 1400 | pg/L | 2000 | 68 | 40.0-135.0 |
| 1,2,3,7,8,9-HxCDF-13C   | 1400 | pg/L | 2000 | 68 | 40.0-135.0 |
| 1,2,3,7,8-PeCDD-13C     | 1300 | pg/L | 2000 | 64 | 40.0-135.0 |
| 1,2,3,7,8-PeCDF-13C     | 1400 | pg/L | 2000 | 67 | 40.0-135.0 |
| 2,3,4,6,7,8-HxCDF-13C   | 1400 | pg/L | 2000 | 70 | 40.0-135.0 |
| 2,3,4,7,8-PeCDF-13C     | 1300 | pg/L | 2000 | 65 | 40.0-135.0 |
| 2,3,7,8-TCDD-13C        | 1200 | pg/L | 2000 | 58 | 40.0-135.0 |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 15:58

## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                           | Result | MRL | Units | Spike Level                                              | Source Result | %REC Limits    | RPD | RPD Limit | Qualifier |
|-----------------------------------|--------|-----|-------|----------------------------------------------------------|---------------|----------------|-----|-----------|-----------|
| Batch: 37218 - SW8290 (Continued) |        |     |       |                                                          |               |                |     |           |           |
| BLK (BLANK-111675)                |        |     |       | Prepared: 03/13/24 Analyzed: 03/16/24                    |               |                |     |           |           |
| Surrogate(s)                      |        |     |       |                                                          |               |                |     |           |           |
| 2,3,7,8-TCDF-13C                  | 1400   |     | pg/L  | 2000                                                     |               | 70 40.0-135.0  |     |           |           |
| OCDD-13C                          | 2200   |     | pg/L  | 4100                                                     |               | 55 40.0-135.0  |     |           |           |
| BS (LCS-111676)                   |        |     |       | Prepared: 03/13/24 Analyzed: 03/16/24                    |               |                |     |           |           |
| 1,2,3,4,6,7,8-HpCDD               | 1000   | 51  | pg/L  | 1000                                                     |               | 99 70.0-130.0  |     |           |           |
| 1,2,3,4,6,7,8-HpCDF               | 1100   | 51  | pg/L  | 1000                                                     |               | 107 70.0-130.0 |     |           |           |
| 1,2,3,4,7,8,9-HpCDF               | 1000   | 51  | pg/L  | 1000                                                     |               | 102 70.0-130.0 |     |           |           |
| 1,2,3,4,7,8-HxCDD                 | 1200   | 51  | pg/L  | 1000                                                     |               | 113 70.0-130.0 |     |           |           |
| 1,2,3,4,7,8-HxCDF                 | 1000   | 51  | pg/L  | 1000                                                     |               | 102 70.0-130.0 |     |           |           |
| 1,2,3,6,7,8-HxCDD                 | 1100   | 51  | pg/L  | 1000                                                     |               | 104 70.0-130.0 |     |           |           |
| 1,2,3,6,7,8-HxCDF                 | 1000   | 51  | pg/L  | 1000                                                     |               | 101 70.0-130.0 |     |           |           |
| 1,2,3,7,8,9-HxCDD                 | 1100   | 51  | pg/L  | 1000                                                     |               | 110 70.0-130.0 |     |           |           |
| 1,2,3,7,8,9-HxCDF                 | 1000   | 51  | pg/L  | 1000                                                     |               | 100 70.0-130.0 |     |           |           |
| 1,2,3,7,8-PeCDD                   | 950    | 51  | pg/L  | 1000                                                     |               | 93 70.0-130.0  |     |           |           |
| 1,2,3,7,8-PeCDF                   | 980    | 51  | pg/L  | 1000                                                     |               | 96 70.0-130.0  |     |           |           |
| 2,3,4,6,7,8-HxCDF                 | 1100   | 51  | pg/L  | 1000                                                     |               | 109 70.0-130.0 |     |           |           |
| 2,3,4,7,8-PeCDF                   | 990    | 51  | pg/L  | 1000                                                     |               | 97 70.0-130.0  |     |           |           |
| 2,3,7,8-TCDD                      | 240    | 10  | pg/L  | 200                                                      |               | 117 70.0-130.0 |     |           |           |
| 2,3,7,8-TCDF                      | 200    | 10  | pg/L  | 200                                                      |               | 98 70.0-130.0  |     |           |           |
| OCDD                              | 2400   | 100 | pg/L  | 2000                                                     |               | 118 70.0-130.0 |     |           |           |
| OCDF                              | 2600   | 100 | pg/L  | 2000                                                     |               | 129 70.0-130.0 |     |           |           |
| Surrogate(s)                      |        |     |       |                                                          |               |                |     |           |           |
| 1,2,3,4,6,7,8-HpCDD-13C           | 820    |     | pg/L  | 2000                                                     |               | 40 40.0-135.0  |     |           |           |
| 1,2,3,4,6,7,8-HpCDF-13C           | 840    |     | pg/L  | 2000                                                     |               | 41 40.0-135.0  |     |           |           |
| 1,2,3,4,7,8,9-HpCDF-13C           | 890    |     | pg/L  | 2000                                                     |               | 44 40.0-135.0  |     |           |           |
| 1,2,3,4,7,8-HxCDD-13C             | 810    |     | pg/L  | 2000                                                     |               | 40 40.0-135.0  |     |           |           |
| 1,2,3,4,7,8-HxCDF-13C             | 880    |     | pg/L  | 2000                                                     |               | 43 40.0-135.0  |     |           |           |
| 1,2,3,6,7,8-HxCDD-13C             | 930    |     | pg/L  | 2000                                                     |               | 46 40.0-135.0  |     |           |           |
| 1,2,3,6,7,8-HxCDF-13C             | 920    |     | pg/L  | 2000                                                     |               | 45 40.0-135.0  |     |           |           |
| 1,2,3,7,8,9-HxCDF-13C             | 970    |     | pg/L  | 2000                                                     |               | 47 40.0-135.0  |     |           |           |
| 1,2,3,7,8-PeCDD-13C               | 950    |     | pg/L  | 2000                                                     |               | 47 40.0-135.0  |     |           |           |
| 1,2,3,7,8-PeCDF-13C               | 1000   |     | pg/L  | 2000                                                     |               | 49 40.0-135.0  |     |           |           |
| 2,3,4,6,7,8-HxCDF-13C             | 980    |     | pg/L  | 2000                                                     |               | 48 40.0-135.0  |     |           |           |
| 2,3,4,7,8-PeCDF-13C               | 1000   |     | pg/L  | 2000                                                     |               | 50 40.0-135.0  |     |           |           |
| 2,3,7,8-TCDD-13C                  | 880    |     | pg/L  | 2000                                                     |               | 43 40.0-135.0  |     |           |           |
| 2,3,7,8-TCDF-13C                  | 1100   |     | pg/L  | 2000                                                     |               | 55 40.0-135.0  |     |           |           |
| OCDD-13C                          | 1500   |     | pg/L  | 4100                                                     |               | 38 40.0-135.0  |     |           | P         |
| LCSD (LCSD-111677)                |        |     |       | Source: LCS-111676 Prepared: 03/13/24 Analyzed: 03/16/24 |               |                |     |           |           |
| 1,2,3,4,6,7,8-HpCDD               | 1100   | 51  | pg/L  | 1000                                                     | 1000          | 106 70.0-130.0 | 7.0 | 20.0      |           |

Encina Wastewater Authority  
6200 Avenida Encinas  
Carlsbad, CA 92011

**Project Number:** 2024 Annual Meadowlark Effluent Priority  
Pollutant Scan  
**Project Manager:** Rachael Morgan

**Reported:**  
04/08/2024 15:58

## Quality Control Results

(Continued)

### Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

| Analyte                                  | Result | MRL | Units                     | Spike Level | Source Result             | %REC | Limits                    | RPD  | RPD Limit | Qualifier |
|------------------------------------------|--------|-----|---------------------------|-------------|---------------------------|------|---------------------------|------|-----------|-----------|
| <b>Batch: 37218 - SW8290 (Continued)</b> |        |     |                           |             |                           |      |                           |      |           |           |
| <b>LCSD (LCSD-111677)</b>                |        |     | <b>Source: LCS-111676</b> |             | <b>Prepared: 03/13/24</b> |      | <b>Analyzed: 03/16/24</b> |      |           |           |
| 1,2,3,4,6,7,8-HpCDF                      | 1100   | 51  | pg/L                      | 1000        | 1100                      | 111  | 70.0-130.0                | 4.5  | 20.0      |           |
| 1,2,3,4,7,8,9-HpCDF                      | 1100   | 51  | pg/L                      | 1000        | 1000                      | 111  | 70.0-130.0                | 8.5  | 20.0      |           |
| 1,2,3,4,7,8-HxCDD                        | 1200   | 51  | pg/L                      | 1000        | 1200                      | 117  | 70.0-130.0                | 3.7  | 20.0      |           |
| 1,2,3,4,7,8-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1000                      | 107  | 70.0-130.0                | 4.7  | 20.0      |           |
| 1,2,3,6,7,8-HxCDD                        | 1100   | 51  | pg/L                      | 1000        | 1100                      | 108  | 70.0-130.0                | 4.0  | 20.0      |           |
| 1,2,3,6,7,8-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1000                      | 104  | 70.0-130.0                | 3.2  | 20.0      |           |
| 1,2,3,7,8,9-HxCDD                        | 1100   | 51  | pg/L                      | 1000        | 1100                      | 112  | 70.0-130.0                | 1.8  | 20.0      |           |
| 1,2,3,7,8,9-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1000                      | 105  | 70.0-130.0                | 5.6  | 20.0      |           |
| 1,2,3,7,8-PeCDD                          | 990    | 51  | pg/L                      | 1000        | 950                       | 97   | 70.0-130.0                | 3.8  | 20.0      |           |
| 1,2,3,7,8-PeCDF                          | 1100   | 51  | pg/L                      | 1000        | 980                       | 104  | 70.0-130.0                | 7.6  | 20.0      |           |
| 2,3,4,6,7,8-HxCDF                        | 1100   | 51  | pg/L                      | 1000        | 1100                      | 110  | 70.0-130.0                | 1.8  | 20.0      |           |
| 2,3,4,7,8-PeCDF                          | 1100   | 51  | pg/L                      | 1000        | 990                       | 104  | 70.0-130.0                | 7.2  | 20.0      |           |
| 2,3,7,8-TCDD                             | 240    | 10  | pg/L                      | 200         | 240                       | 119  | 70.0-130.0                | 1.8  | 20.0      |           |
| 2,3,7,8-TCDF                             | 220    | 10  | pg/L                      | 200         | 200                       | 109  | 70.0-130.0                | 10.7 | 20.0      |           |
| OCDD                                     | 2400   | 100 | pg/L                      | 2000        | 2400                      | 116  | 70.0-130.0                | 1.9  | 20.0      |           |
| OCDF                                     | 2600   | 100 | pg/L                      | 2000        | 2600                      | 126  | 70.0-130.0                | 2.2  | 20.0      |           |
| <i>Surrogate(s)</i>                      |        |     |                           |             |                           |      |                           |      |           |           |
| 1,2,3,4,6,7,8-HpCDD-13C                  | 930    |     | pg/L                      | 2000        |                           | 46   | 40.0-135.0                |      |           |           |
| 1,2,3,4,6,7,8-HpCDF-13C                  | 980    |     | pg/L                      | 2000        |                           | 48   | 40.0-135.0                |      |           |           |
| 1,2,3,4,7,8,9-HpCDF-13C                  | 990    |     | pg/L                      | 2000        |                           | 49   | 40.0-135.0                |      |           |           |
| 1,2,3,4,7,8-HxCDD-13C                    | 960    |     | pg/L                      | 2000        |                           | 47   | 40.0-135.0                |      |           |           |
| 1,2,3,4,7,8-HxCDF-13C                    | 990    |     | pg/L                      | 2000        |                           | 49   | 40.0-135.0                |      |           |           |
| 1,2,3,6,7,8-HxCDD-13C                    | 1000   |     | pg/L                      | 2000        |                           | 51   | 40.0-135.0                |      |           |           |
| 1,2,3,6,7,8-HxCDF-13C                    | 1100   |     | pg/L                      | 2000        |                           | 52   | 40.0-135.0                |      |           |           |
| 1,2,3,7,8,9-HxCDF-13C                    | 1100   |     | pg/L                      | 2000        |                           | 52   | 40.0-135.0                |      |           |           |
| 1,2,3,7,8-PeCDD-13C                      | 1100   |     | pg/L                      | 2000        |                           | 53   | 40.0-135.0                |      |           |           |
| 1,2,3,7,8-PeCDF-13C                      | 1200   |     | pg/L                      | 2000        |                           | 57   | 40.0-135.0                |      |           |           |
| 2,3,4,6,7,8-HxCDF-13C                    | 1100   |     | pg/L                      | 2000        |                           | 54   | 40.0-135.0                |      |           |           |
| 2,3,4,7,8-PeCDF-13C                      | 1100   |     | pg/L                      | 2000        |                           | 54   | 40.0-135.0                |      |           |           |
| 2,3,7,8-TCDD-13C                         | 1000   |     | pg/L                      | 2000        |                           | 49   | 40.0-135.0                |      |           |           |
| 2,3,7,8-TCDF-13C                         | 1200   |     | pg/L                      | 2000        |                           | 58   | 40.0-135.0                |      |           |           |
| OCDD-13C                                 | 1800   |     | pg/L                      | 4100        |                           | 44   | 40.0-135.0                |      |           |           |

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

| Analyte                                | Result | MRL  | Units | Spike Level                                                     | Source Result | %REC | Limit  | RPD  | Limit | Qualifier |
|----------------------------------------|--------|------|-------|-----------------------------------------------------------------|---------------|------|--------|------|-------|-----------|
| <b>Batch: W4C0877 - EPA 200.8</b>      |        |      |       |                                                                 |               |      |        |      |       |           |
| <b>Blank (W4C0877-BLK1)</b>            |        |      |       | <b>Prepared: 03/12/24 Analyzed: 03/15/24</b>                    |               |      |        |      |       |           |
| Copper, Total                          | ND     | 0.50 | ug/l  |                                                                 |               |      |        |      |       |           |
| Lead, Total                            | ND     | 0.20 | ug/l  |                                                                 |               |      |        |      |       |           |
| <b>LCS (W4C0877-BS1)</b>               |        |      |       | <b>Prepared: 03/12/24 Analyzed: 03/15/24</b>                    |               |      |        |      |       |           |
| Copper, Total                          | 51.2   | 0.50 | ug/l  | 50.0                                                            |               | 102  | 85-115 |      |       |           |
| Lead, Total                            | 50.8   | 0.20 | ug/l  | 50.0                                                            |               | 101  | 85-115 |      |       |           |
| <b>Matrix Spike (W4C0877-MS1)</b>      |        |      |       | <b>Source: 4B09009-01 Prepared: 03/12/24 Analyzed: 03/15/24</b> |               |      |        |      |       |           |
| Copper, Total                          | 49.9   | 0.50 | ug/l  | 50.0                                                            | ND            | 100  | 70-130 |      |       |           |
| Lead, Total                            | 50.3   | 0.20 | ug/l  | 50.0                                                            | ND            | 101  | 70-130 |      |       |           |
| <b>Matrix Spike Dup (W4C0877-MSD1)</b> |        |      |       | <b>Source: 4B09009-01 Prepared: 03/12/24 Analyzed: 03/15/24</b> |               |      |        |      |       |           |
| Copper, Total                          | 50.0   | 0.50 | ug/l  | 50.0                                                            | ND            | 100  | 70-130 | 0.09 | 30    |           |
| Lead, Total                            | 50.0   | 0.20 | ug/l  | 50.0                                                            | ND            | 100  | 70-130 | 0.6  | 30    |           |



## Notes and Definitions

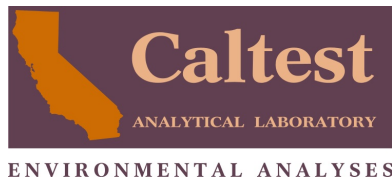
| Item | Definition                                                                                                                                                                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P    | Recovery outside of target range                                                                                                                                                                                                               |
| %REC | Percent Recovery                                                                                                                                                                                                                               |
| Dil  | Dilution                                                                                                                                                                                                                                       |
| MDL  | Method Detection Limit                                                                                                                                                                                                                         |
| MRL  | Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) |
| ND   | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.                                                                                        |
| RPD  | Relative Percent Difference                                                                                                                                                                                                                    |

Source Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Thursday, April 4, 2024

Rachael Morgan  
Encina Wastewater Authority La  
6200 Avenida Encinas  
Carlsbad, CA 92011

Re Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

Collected By: SN  
PO/Contract#: 2024-0069

Dear Rachael Morgan:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, March 07, 2024. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Enclosures

Project Manager: Holly Long

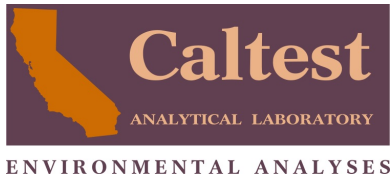
## REPORT OF LABORATORY ANALYSIS



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SAMPLE SUMMARY

Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

| Lab ID     | Sample ID         | Matrix     | Date Collected | Date Received  |
|------------|-------------------|------------|----------------|----------------|
| Z030342001 | MDLK FAILSAFE EFF | Water (ML) | 03/06/24 08:00 | 03/07/24 09:30 |
| Z030342002 | MDLK FAILSAFE EFF | Water (ML) | 03/06/24 07:00 | 03/07/24 09:30 |

REPORT OF LABORATORY ANALYSIS



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## NARRATIVE

Lab Order: Z030342  
Project ID: MDLK FAILFSAFE EFF SEMIAN 2024

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### General Qualifiers and Notes

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Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that test results meet California Environmental Laboratory Accreditation Program (CA-ELAP) and/or National Environmental Laboratory Accreditation Program (NELAP) requirements, as applicable, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Analyses performed at Caltest for pH, Dissolved Oxygen, and Chlorine Residual, as well as laboratory filtrations for Dissolved Metals (excluding Mercury) are not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - indicates analytical result has not been detected at or above the Reporting Limit (RL), or at above the Method Detection Limit (MDL) when it is included on the report and is not otherwise noted.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

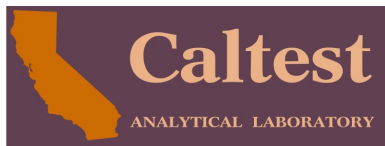
MDL - The Method Detection Limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

B - indicates the analyte has been detected in the blank associated with the sample.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.



## ENVIRONMENTAL ANALYSES

## ANALYTICAL RESULTS

Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

|                                |                   |                 |                    |          |            |                |              |                |          |      |
|--------------------------------|-------------------|-----------------|--------------------|----------|------------|----------------|--------------|----------------|----------|------|
| Lab ID                         | Z030342001        | Date Collected: | 03/06/24 08:00     | Matrix:  | Water (ML) |                |              |                |          |      |
| Sample ID                      | MDLK FAILSAFE EFF | Date Received:  | 03/07/24 09:30     |          |            |                |              |                |          |      |
| Parameter                      | Result            | Units           | RL                 | MDL      | DF         | Prepared       | Batch        | Analyzed       | Batch    | Qual |
| Volatile Organic Analysis      |                   |                 | Analytical Method: |          |            | EPA 624.1      | Analyzed By: |                |          | MDW  |
| Acrolein                       | ND                | ug/L            | 2.0                | 0.81     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Acrylonitrile                  | ND                | ug/L            | 2.0                | 0.75     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Benzene                        | ND                | ug/L            | 0.50               | 0.18     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Bromodichloromethane           | 2.9               | ug/L            | 0.50               | 0.080    | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Bromoform                      | J0.25             | ug/L            | 0.50               | 0.15     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Bromomethane (Methyl Bromide)  | ND                | ug/L            | 0.50               | 0.13     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Carbon tetrachloride           | ND                | ug/L            | 0.50               | 0.21     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Chlorobenzene                  | ND                | ug/L            | 0.50               | 0.18     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Chloroethane (Ethyl Chloride)  | ND                | ug/L            | 0.50               | 0.46     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 2-Chloroethyl vinyl ether      | ND                | ug/L            | 1.0                | 0.36     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Chloroform                     | 4.6               | ug/L            | 0.50               | 0.17     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Chloromethane(Methyl Chloride) | ND                | ug/L            | 0.50               | 0.46     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Dibromochloromethane           | 1.1               | ug/L            | 0.25               | 0.17     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,2-Dichlorobenzene            | ND                | ug/L            | 0.50               | 0.27     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,3-Dichlorobenzene            | ND                | ug/L            | 0.50               | 0.18     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,4-Dichlorobenzene            | ND                | ug/L            | 0.50               | 0.18     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Dichlorodifluoromethane (F-12) | ND                | ug/L            | 0.50               | 0.32     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,1-Dichloroethane             | ND                | ug/L            | 0.50               | 0.15     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,2-Dichloroethane (EDC)       | ND                | ug/L            | 0.50               | 0.17     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,1-Dichloroethene             | ND                | ug/L            | 0.50               | 0.21     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| cis-1,2-Dichloroethene         | ND                | ug/L            | 0.50               | 0.15     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| trans-1,2-Dichloroethene       | ND                | ug/L            | 0.50               | 0.10     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,2-Dichloropropane            | ND                | ug/L            | 0.50               | 0.15     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| cis-1,3-Dichloropropene        | ND                | ug/L            | 0.50               | 0.090    | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| trans-1,3-Dichloropropene      | ND                | ug/L            | 0.50               | 0.46     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Dichlorotrifluoroethane (F123) | ND                | ug/L            | 0.50               | 0.14     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Ethylbenzene                   | ND                | ug/L            | 0.50               | 0.10     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Methyl tert-butyl ether (MTBE) | ND                | ug/L            | 0.50               | 0.15     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Methylene chloride             | ND                | ug/L            | 0.50               | 0.49     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,1,2,2-Tetrachloroethane      | ND                | ug/L            | 0.50               | 0.15     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Tetrachloroethene (PCE)        | ND                | ug/L            | 0.50               | 0.19     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Toluene                        | ND                | ug/L            | 0.50               | 0.19     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,1,2-Trichloroethane          | ND                | ug/L            | 0.50               | 0.16     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| 1,1,1-Trichloroethane (TCA)    | ND                | ug/L            | 0.50               | 0.19     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Trichloroethene (TCE)          | ND                | ug/L            | 0.50               | 0.20     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Trichlorofluoromethane (F-11)  | ND                | ug/L            | 0.50               | 0.29     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Trichlorotrifluoroethane F-113 | ND                | ug/L            | 1.0                | 0.13     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Vinyl chloride                 | ND                | ug/L            | 0.50               | 0.25     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Xylenes, total                 | ND                | ug/L            | 0.50               | 0.47     | 1          |                |              | 03/08/24 16:29 | VMS 1446 |      |
| Surrogates                     |                   |                 |                    |          |            |                |              |                |          |      |
| Parameter                      |                   |                 | Recovery           | Limits   |            | Prepared       | Batch        | Analyzed       | Batch    | Qual |
| 1,2-Dichloroethane-d4 (SS)     |                   |                 | 86%                | 57 - 148 |            | 03/08/24 16:29 | VMS 1446     | 03/08/24 16:29 | VMS 1446 |      |
| 4-Bromofluorobenzene (SS)      |                   |                 | 99%                | 80 - 120 |            | 03/08/24 16:29 | VMS 1446     | 03/08/24 16:29 | VMS 1446 |      |
| Dibromofluoromethane (SS)      |                   |                 | 101%               | 63 - 142 |            | 03/08/24 16:29 | VMS 1446     | 03/08/24 16:29 | VMS 1446 |      |
| Toluene-d8 (SS)                |                   |                 | 96%                | 46 - 145 |            | 03/08/24 16:29 | VMS 1446     | 03/08/24 16:29 | VMS 1446 |      |

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## ENVIRONMENTAL ANALYSES

## ANALYTICAL RESULTS

Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

|                                        |                   |                 |                    |          |           |                |          |                |          |      |
|----------------------------------------|-------------------|-----------------|--------------------|----------|-----------|----------------|----------|----------------|----------|------|
| Lab ID                                 | Z030342002        | Date Collected: | 03/06/24 07:00     |          | Matrix:   | Water (ML)     |          |                |          |      |
| Sample ID                              | MDLK FAILSAFE EFF | Date Received:  | 03/07/24 09:30     |          |           |                |          |                |          |      |
| Parameter                              | Result            | Units           | RL                 | MDL      | DF        | Prepared       | Batch    | Analyzed       | Batch    | Qual |
| Chlorinated Pesticides & PCBs Analysis |                   |                 | Prep Method:       |          | EPA 625.1 |                |          | Prepared By:   |          | JC   |
|                                        |                   |                 | Analytical Method: |          | EPA 625.1 |                |          | Analyzed By:   |          | MDT  |
| Aldrin                                 | ND                | ug/L            | 0.0050             | 0.0014   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| alpha-BHC                              | ND                | ug/L            | 0.010              | 0.0026   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| beta-BHC                               | ND                | ug/L            | 0.0050             | 0.0029   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| delta-BHC                              | ND                | ug/L            | 0.0050             | 0.0035   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| gamma-BHC (Lindane)                    | ND                | ug/L            | 0.010              | 0.0022   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Chlordane                              | ND                | ug/L            | 0.010              | 0.0034   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| 4,4'-DDD                               | ND                | ug/L            | 0.010              | 0.0021   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| 4,4'-DDE                               | ND                | ug/L            | 0.010              | 0.0009   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| 4,4'-DDT                               | ND                | ug/L            | 0.010              | 0.0038   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Dieldrin                               | ND                | ug/L            | 0.010              | 0.0017   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Endosulfan I                           | ND                | ug/L            | 0.010              | 0.0042   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Endosulfan II                          | ND                | ug/L            | 0.010              | 0.0023   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Endosulfan sulfate                     | ND                | ug/L            | 0.010              | 0.0011   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Endrin                                 | ND                | ug/L            | 0.010              | 0.0027   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Endrin aldehyde                        | ND                | ug/L            | 0.010              | 0.0034   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Endrin ketone                          | ND                | ug/L            | 0.010              | 0.0040   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Heptachlor                             | ND                | ug/L            | 0.010              | 0.0031   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Heptachlor epoxide                     | ND                | ug/L            | 0.010              | 0.0027   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Methoxychlor                           | ND                | ug/L            | 0.010              | 0.0035   | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1016                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1221                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1232                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1242                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1248                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1254                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| PCB 1260                               | ND                | ug/L            | 0.10               | 0.030    | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Toxaphene                              | ND                | ug/L            | 0.50               | 0.40     | 1         | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Surrogates                             |                   |                 |                    |          |           |                |          |                |          |      |
| Parameter                              |                   |                 | Recovery           | Limits   |           | Prepared       | Batch    | Analyzed       | Batch    | Qual |
| Decachlorobiphenyl (SS)                |                   |                 | 134%               | 1 - 199  |           | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Tetrachloro-m-xylene (SS)              |                   |                 | 102%               | 11 - 134 |           | 03/11/24 09:56 | SPR 1549 | 04/01/24 23:36 | SMS 1474 |      |
| Semivolatile Organic Analysis          |                   |                 | Prep Method:       |          | EPA 625.1 |                |          | Prepared By:   |          | JC   |
|                                        |                   |                 | Analytical Method: |          | EPA 625.1 |                |          | Analyzed By:   |          | MDT  |
| Acenaphthene                           | ND                | ug/L            | 0.30               | 0.020    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Acenaphthylene                         | ND                | ug/L            | 0.20               | 0.020    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Anthracene                             | ND                | ug/L            | 0.30               | 0.030    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzidine                              | ND                | ug/L            | 5.0                | 4.0      | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzo(a)anthracene                     | ND                | ug/L            | 0.30               | 0.050    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzo(a)pyrene                         | ND                | ug/L            | 0.30               | 0.040    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzo(b)fluoranthene                   | ND                | ug/L            | 0.30               | 0.050    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzo(g,h,i)perylene                   | ND                | ug/L            | 0.10               | 0.050    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzo(k)fluoranthene                   | ND                | ug/L            | 0.30               | 0.020    | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Benzyl butyl phthalate                 | ND                | ug/L            | 5.0                | 2.0      | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 4-Bromophenyl phenyl ether             | ND                | ug/L            | 5.0                | 0.50     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| bis(2-Chloroethoxy) methane            | ND                | ug/L            | 5.0                | 0.50     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| bis(2-Chloroethyl) ether               | ND                | ug/L            | 1.0                | 0.90     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| bis(2-Chloroisopropyl) ether           | ND                | ug/L            | 2.0                | 0.90     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 4-Chloro-3-methylphenol                | ND                | ug/L            | 1.0                | 0.50     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2-Chloronaphthalene                    | ND                | ug/L            | 5.0                | 1.0      | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2-Chlorophenol                         | ND                | ug/L            | 2.0                | 0.90     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 4-Chlorophenyl phenyl ether            | ND                | ug/L            | 5.0                | 0.60     | 1         | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |

04/04/2024 09:52

## REPORT OF LABORATORY ANALYSIS

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## ENVIRONMENTAL ANALYSES

## ANALYTICAL RESULTS

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

| Lab ID Z030342002              |          | Date Collected: 03/06/24 07:00 |                |          |                | Matrix: Water (ML) |          |                |          |      |
|--------------------------------|----------|--------------------------------|----------------|----------|----------------|--------------------|----------|----------------|----------|------|
| Sample ID MDLK FAILSAFE EFF    |          | Date Received: 03/07/24 09:30  |                |          |                |                    |          |                |          |      |
| Parameter                      | Result   | Units                          | RL             | MDL      | DF             | Prepared           | Batch    | Analyzed       | Batch    | Qual |
| Chrysene                       | ND       | ug/L                           | 0.30           | 0.050    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Dibenzo(a,h)anthracene         | ND       | ug/L                           | 0.10           | 0.050    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 3,3'-Dichlorobenzidine         | ND       | ug/L                           | 5.0            | 5.0      | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,4-Dichlorophenol             | ND       | ug/L                           | 1.0            | 0.90     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Diethylphthalate               | ND       | ug/L                           | 2.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,4-Dimethylphenol             | ND       | ug/L                           | 2.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Dimethylphthalate              | ND       | ug/L                           | 2.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Di-n-butylphthalate            | ND       | ug/L                           | 5.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,4-Dinitrophenol              | ND       | ug/L                           | 5.0            | 2.0      | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,4-Dinitrotoluene             | ND       | ug/L                           | 5.0            | 0.90     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,6-Dinitrotoluene             | ND       | ug/L                           | 5.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Di-n-octylphthalate            | ND       | ug/L                           | 5.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 1,2Diphenylhydrazine/Azobenzen | ND       | ug/L                           | 1.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| bis(2-Ethylhexyl) phthalate    | ND       | ug/L                           | 1.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Fluoranthene                   | ND       | ug/L                           | 0.050          | 0.020    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Fluorene                       | ND       | ug/L                           | 0.10           | 0.020    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Hexachlorobenzene              | ND       | ug/L                           | 1.0            | 1.0      | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Hexachlorobutadiene            | ND       | ug/L                           | 1.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Hexachlorocyclo pentadiene     | ND       | ug/L                           | 1.0            | 0.90     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Hexachloroethane               | ND       | ug/L                           | 1.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Indeno(1,2,3-cd)pyrene         | ND       | ug/L                           | 0.050          | 0.050    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Isophorone                     | ND       | ug/L                           | 1.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2-Methyl-4,6-dinitrophenol     | ND       | ug/L                           | 5.0            | 2.0      | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2-Methylphenol (o-Cresol)      | ND       | ug/L                           | 5.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 3 & 4-Methylphenol(m&p Cresol) | ND       | ug/L                           | 5.0            | 0.80     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Naphthalene                    | ND       | ug/L                           | 0.20           | 0.020    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Nitrobenzene                   | ND       | ug/L                           | 1.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2-Nitrophenol                  | ND       | ug/L                           | 5.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 4-Nitrophenol                  | ND       | ug/L                           | 5.0            | 1.0      | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| N-Nitrosodimethylamine         | ND       | ug/L                           | 5.0            | 0.70     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| N-Nitroso-di-n-propylamine     | ND       | ug/L                           | 5.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| N-Nitrosodiphenylamine         | ND       | ug/L                           | 1.0            | 0.70     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Pentachlorophenol              | ND       | ug/L                           | 1.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Phenanthrene                   | ND       | ug/L                           | 0.050          | 0.020    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Phenol                         | ND       | ug/L                           | 1.0            | 0.30     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Pyrene                         | ND       | ug/L                           | 0.050          | 0.020    | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,4,5-Trichlorophenol          | ND       | ug/L                           | 5.0            | 0.50     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| 2,4,6-Trichlorophenol          | ND       | ug/L                           | 2.0            | 0.40     | 1              | 03/08/24 15:48     | SPR 1548 | 03/20/24 07:47 | SMS 1463 |      |
| Surrogates                     |          |                                |                |          |                |                    |          |                |          |      |
| Parameter                      | Recovery | Limits                         | Prepared       | Batch    | Analyzed       | Batch              | Qual     |                |          |      |
| 2,4,6-Tribromophenol (SS)      | 75%      | 1 - 200                        | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463           |          |                |          |      |
| 2-Fluorobiphenyl (SS)          | 49%      | 1 - 130                        | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463           |          |                |          |      |
| 2-Fluorophenol (SS)            | 26%      | 1 - 130                        | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463           |          |                |          |      |
| Nitrobenzene-d5 (SS)           | 45%      | 1 - 130                        | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463           |          |                |          |      |
| Phenol-d6 (SS)                 | 16%      | 1 - 130                        | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463           |          |                |          |      |
| Terphenyl-d14 (SS)             | 107%     | 1 - 200                        | 03/08/24 15:48 | SPR 1548 | 03/20/24 07:47 | SMS 1463           |          |                |          |      |

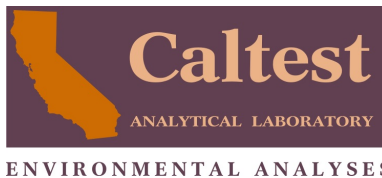


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## QUALITY CONTROL DATA

Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

**Analysis Description:** Semivolatile Organic Analysis  
**Analysis Method:** EPA 625.1

**QC Batch:** SPR/1548  
**QC Batch Method:** EPA 625.1

**Method Blank (155129)**

| Parameter                      | Results | Units | RL    | MDL   | Qual |
|--------------------------------|---------|-------|-------|-------|------|
| Acenaphthene                   | ND      | ug/L  | 0.30  | 0.020 |      |
| Acenaphthylene                 | ND      | ug/L  | 0.20  | 0.020 |      |
| Anthracene                     | ND      | ug/L  | 0.30  | 0.030 |      |
| Benzidine                      | ND      | ug/L  | 5.0   | 4.0   |      |
| Benzo(a)anthracene             | ND      | ug/L  | 0.30  | 0.050 |      |
| Benzo(a)pyrene                 | ND      | ug/L  | 0.30  | 0.040 |      |
| Benzo(b)fluoranthene           | ND      | ug/L  | 0.30  | 0.050 |      |
| Benzo(g,h,i)perylene           | ND      | ug/L  | 0.10  | 0.050 |      |
| Benzo(k)fluoranthene           | ND      | ug/L  | 0.30  | 0.020 |      |
| Benzyl butyl phthalate         | ND      | ug/L  | 5.0   | 2.0   |      |
| 4-Bromophenyl phenyl ether     | ND      | ug/L  | 5.0   | 0.50  |      |
| bis(2-Chloroethoxy) methane    | ND      | ug/L  | 5.0   | 0.50  |      |
| bis(2-Chloroethyl) ether       | ND      | ug/L  | 1.0   | 0.90  |      |
| bis(2-Chloroisopropyl) ether   | ND      | ug/L  | 2.0   | 0.90  |      |
| 4-Chloro-3-methylphenol        | ND      | ug/L  | 1.0   | 0.50  |      |
| 2-Chloronaphthalene            | ND      | ug/L  | 5.0   | 1.0   |      |
| 2-Chlorophenol                 | ND      | ug/L  | 2.0   | 0.90  |      |
| 4-Chlorophenyl phenyl ether    | ND      | ug/L  | 5.0   | 0.60  |      |
| Chrysene                       | ND      | ug/L  | 0.30  | 0.050 |      |
| Dibenzo(a,h)anthracene         | ND      | ug/L  | 0.10  | 0.050 |      |
| 3,3'-Dichlorobenzidine         | ND      | ug/L  | 5.0   | 5.0   |      |
| 2,4-Dichlorophenol             | ND      | ug/L  | 1.0   | 0.90  |      |
| Diethylphthalate               | ND      | ug/L  | 2.0   | 0.50  |      |
| 2,4-Dimethylphenol             | ND      | ug/L  | 2.0   | 0.40  |      |
| Dimethylphthalate              | ND      | ug/L  | 2.0   | 0.50  |      |
| Di-n-butylphthalate            | ND      | ug/L  | 5.0   | 0.40  |      |
| 2,4-Dinitrophenol              | ND      | ug/L  | 5.0   | 2.0   |      |
| 2,4-Dinitrotoluene             | ND      | ug/L  | 5.0   | 0.90  |      |
| 2,6-Dinitrotoluene             | ND      | ug/L  | 5.0   | 0.40  |      |
| Di-n-octylphthalate            | ND      | ug/L  | 5.0   | 0.40  |      |
| 1,2Diphenylhydrazine/Azobenzen | ND      | ug/L  | 1.0   | 0.50  |      |
| bis(2-Ethylhexyl) phthalate    | ND      | ug/L  | 1.0   | 0.50  |      |
| Fluoranthene                   | ND      | ug/L  | 0.050 | 0.020 |      |
| Fluorene                       | ND      | ug/L  | 0.10  | 0.020 |      |
| Hexachlorobenzene              | ND      | ug/L  | 1.0   | 1.0   |      |
| Hexachlorobutadiene            | ND      | ug/L  | 1.0   | 0.40  |      |
| Hexachlorocyclo pentadiene     | ND      | ug/L  | 1.0   | 0.90  |      |
| Hexachloroethane               | ND      | ug/L  | 1.0   | 0.40  |      |
| Indeno(1,2,3-cd)pyrene         | ND      | ug/L  | 0.050 | 0.050 |      |
| Isophorone                     | ND      | ug/L  | 1.0   | 0.50  |      |
| 2-Methyl-4,6-dinitrophenol     | ND      | ug/L  | 5.0   | 2.0   |      |
| 2-Methylphenol (o-Cresol)      | ND      | ug/L  | 5.0   | 0.40  |      |
| 3 & 4-Methylphenol(m&p Cresol) | ND      | ug/L  | 5.0   | 0.80  |      |
| Naphthalene                    | ND      | ug/L  | 0.20  | 0.020 |      |
| Nitrobenzene                   | ND      | ug/L  | 1.0   | 0.50  |      |

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

**Analysis Description:** Semivolatile Organic Analysis  
**Analysis Method:** EPA 625.1

**QC Batch:** SPR/1548  
**QC Batch Method:** EPA 625.1

| Parameter                  | Results | Units | RL    | MDL   | Qual |
|----------------------------|---------|-------|-------|-------|------|
| 2-Nitrophenol              | ND      | ug/L  | 5.0   | 0.50  |      |
| 4-Nitrophenol              | ND      | ug/L  | 5.0   | 1.0   |      |
| N-Nitrosodimethylamine     | ND      | ug/L  | 5.0   | 0.70  |      |
| N-Nitroso-di-n-propylamine | ND      | ug/L  | 5.0   | 0.50  |      |
| N-Nitrosodiphenylamine     | ND      | ug/L  | 1.0   | 0.70  |      |
| Pentachlorophenol          | ND      | ug/L  | 1.0   | 0.40  |      |
| Phenanthrene               | ND      | ug/L  | 0.050 | 0.020 |      |
| Phenol                     | ND      | ug/L  | 1.0   | 0.30  |      |
| Pyrene                     | ND      | ug/L  | 0.050 | 0.020 |      |
| 2,4,5-Trichlorophenol      | ND      | ug/L  | 5.0   | 0.50  |      |
| 2,4,6-Trichlorophenol      | ND      | ug/L  | 2.0   | 0.40  |      |

**Surrogates**

| Parameter                 | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Qual |
|---------------------------|-------|---------------|--------------|-------------|----------------|------|
| 2,4,6-Tribromophenol (SS) | %     | 100           | 120          | 120         | 23 - 170       |      |
| 2-Fluorobiphenyl (SS)     | %     | 50            | 44           | 88          | 15 - 130       |      |
| 2-Fluorophenol (SS)       | %     | 100           | 60           | 60          | 10 - 130       |      |
| Nitrobenzene-d5 (SS)      | %     | 50            | 41           | 82          | 10 - 130       |      |
| Phenol-d6 (SS)            | %     | 100           | 37           | 37          | 10 - 130       |      |
| Terphenyl-d14 (SS)        | %     | 50            | 67           | 134         | 15 - 170       |      |

**Laboratory Control Sample (155130); Laboratory Control Sample Dup (155131)**

| Parameter                    | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|------------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Acenaphthene                 | ug/L  | 50            | 52           | 104         | 47 - 145       | 54         | 108       | 4   | 40        |      |
| Acenaphthylene               | ug/L  | 50            | 54           | 108         | 33 - 145       | 56         | 112       | 4   | 40        |      |
| Anthracene                   | ug/L  | 50            | 59           | 118         | 27 - 133       | 56         | 112       | 5   | 40        |      |
| Benzidine                    | ug/L  | 50            | 10           | 20          | 1 - 130        | 4.8        | 10        | 70  | 40        | 2    |
| Benzo(a)anthracene           | ug/L  | 50            | 56           | 112         | 33 - 143       | 57         | 114       | 2   | 40        |      |
| Benzo(a)pyrene               | ug/L  | 50            | 58           | 116         | 17 - 163       | 58         | 116       | 0   | 40        |      |
| Benzo(b)fluoranthene         | ug/L  | 50            | 62           | 124         | 24 - 159       | 62         | 124       | 0   | 40        |      |
| Benzo(g,h,i)perylene         | ug/L  | 50            | 49           | 98          | 1 - 219        | 49         | 98        | 0   | 40        |      |
| Benzo(k)fluoranthene         | ug/L  | 50            | 61           | 122         | 11 - 162       | 63         | 126       | 3   | 40        |      |
| Benzyl butyl phthalate       | ug/L  | 50            | 66           | 132         | 1 - 152        | 67         | 134       | 2   | 40        |      |
| 4-Bromophenyl phenyl ether   | ug/L  | 50            | 60           | 120         | 53 - 127       | 59         | 118       | 2   | 40        |      |
| bis(2-Chloroethoxy) methane  | ug/L  | 50            | 50           | 100         | 33 - 184       | 51         | 102       | 2   | 40        |      |
| bis(2-Chloroethyl) ether     | ug/L  | 50            | 41           | 82          | 12 - 158       | 44         | 88        | 7   | 40        |      |
| bis(2-Chloroisopropyl) ether | ug/L  | 50            | 43           | 86          | 36 - 166       | 45         | 90        | 5   | 40        |      |
| 4-Chloro-3-methylphenol      | ug/L  | 100           | 131          | 131         | 22 - 147       | 128        | 128       | 2   | 40        |      |
| 2-Chloronaphthalene          | ug/L  | 50            | 47           | 94          | 60 - 120       | 49         | 98        | 4   | 40        |      |
| 2-Chlorophenol               | ug/L  | 100           | 100          | 100         | 23 - 134       | 105        | 105       | 5   | 40        |      |
| 4-Chlorophenyl phenyl ether  | ug/L  | 50            | 59           | 118         | 25 - 158       | 61         | 122       | 3   | 40        |      |
| Chrysene                     | ug/L  | 50            | 56           | 112         | 17 - 168       | 57         | 114       | 2   | 40        |      |
| Dibenzo(a,h)anthracene       | ug/L  | 50            | 56           | 112         | 1 - 227        | 56         | 112       | 0   | 40        |      |
| 3,3'-Dichlorobenzidine       | ug/L  | 50            | 59           | 118         | 1 - 262        | 57         | 114       | 3   | 40        |      |
| 2,4-Dichlorophenol           | ug/L  | 100           | 125          | 125         | 39 - 135       | 128        | 128       | 2   | 40        |      |

**QUALITY CONTROL DATA**

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

**Analysis Description:** Semivolatile Organic Analysis  
**Analysis Method:** EPA 625.1

**QC Batch:** SPR/1548  
**QC Batch Method:** EPA 625.1

| Parameter                      | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|--------------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Diethylphthalate               | ug/L  | 50            | 54           | 108         | 1 - 120        | 54         | 108       | 0   | 40        |      |
| 2,4-Dimethylphenol             | ug/L  | 100           | 108          | 108         | 32 - 120       | 105        | 105       | 3   | 40        |      |
| Dimethylphthalate              | ug/L  | 50            | 56           | 112         | 1 - 120        | 57         | 114       | 2   | 40        |      |
| Di-n-butylphthalate            | ug/L  | 50            | 55           | 110         | 1 - 120        | 51         | 102       | 8   | 40        |      |
| 2,4-Dinitrophenol              | ug/L  | 100           | 128          | 128         | 1 - 191        | 128        | 128       | 0   | 40        |      |
| 2,4-Dinitrotoluene             | ug/L  | 50            | 67           | 134         | 39 - 139       | 67         | 134       | 0   | 40        |      |
| 2,6-Dinitrotoluene             | ug/L  | 50            | 62           | 124         | 50 - 158       | 62         | 124       | 0   | 40        |      |
| Di-n-octylphthalate            | ug/L  | 50            | 63           | 126         | 4 - 146        | 64         | 128       | 2   | 40        |      |
| 1,2Diphenylhydrazine/Azobenzen | ug/L  | 50            | 49           | 98          | 30 - 130       | 49         | 98        | 0   | 40        |      |
| bis(2-Ethylhexyl) phthalate    | ug/L  | 50            | 63           | 126         | 8 - 158        | 64         | 128       | 2   | 40        |      |
| Fluoranthene                   | ug/L  | 50            | 59           | 118         | 26 - 137       | 63         | 126       | 7   | 40        |      |
| Fluorene                       | ug/L  | 50            | 64           | 128         | 59 - 121       | 65         | 130       | 2   | 40        | 1    |
| Hexachlorobenzene              | ug/L  | 50            | 55           | 110         | 1 - 152        | 55         | 110       | 0   | 40        |      |
| Hexachlorobutadiene            | ug/L  | 50            | 39           | 78          | 24 - 120       | 39         | 78        | 0   | 40        |      |
| Hexachlorocyclo pentadiene     | ug/L  | 50            | 33           | 66          | 1 - 130        | 32         | 64        | 3   | 40        |      |
| Hexachloroethane               | ug/L  | 50            | 35           | 70          | 40 - 120       | 36         | 72        | 3   | 40        |      |
| Indeno(1,2,3-cd)pyrene         | ug/L  | 50            | 54           | 108         | 1 - 171        | 54         | 108       | 0   | 40        |      |
| Isophorone                     | ug/L  | 50            | 45           | 90          | 21 - 196       | 47         | 94        | 4   | 40        |      |
| 2-Methyl-4,6-dinitrophenol     | ug/L  | 100           | 122          | 122         | 1 - 181        | 122        | 122       | 0   | 40        |      |
| 2-Methylphenol (o-Cresol)      | ug/L  | 100           | 100          | 100         | 35 - 130       | 103        | 103       | 3   | 40        |      |
| 3 & 4-Methylphenol(m&p Cresol) | ug/L  | 100           | 98           | 98          | 25 - 130       | 103        | 103       | 5   | 40        |      |
| Naphthalene                    | ug/L  | 50            | 43           | 86          | 21 - 133       | 45         | 90        | 5   | 40        |      |
| Nitrobenzene                   | ug/L  | 50            | 43           | 86          | 35 - 180       | 44         | 88        | 2   | 40        |      |
| 2-Nitrophenol                  | ug/L  | 100           | 115          | 115         | 29 - 182       | 115        | 115       | 0   | 40        |      |
| 4-Nitrophenol                  | ug/L  | 100           | 60           | 60          | 1 - 132        | 65         | 65        | 8   | 40        |      |
| N-Nitrosodimethylamine         | ug/L  | 50            | 33           | 66          | 25 - 130       | 35         | 70        | 6   | 40        |      |
| N-Nitroso-di-n-propylamine     | ug/L  | 50            | 48           | 96          | 1 - 230        | 51         | 102       | 6   | 40        |      |
| N-Nitrosodiphenylamine         | ug/L  | 50            | 61           | 122         | 30 - 130       | 60         | 120       | 2   | 40        |      |
| Pentachlorophenol              | ug/L  | 100           | 106          | 106         | 14 - 176       | 103        | 103       | 3   | 40        |      |
| Phenanthrene                   | ug/L  | 50            | 56           | 112         | 54 - 120       | 56         | 112       | 0   | 40        |      |
| Phenol                         | ug/L  | 100           | 50           | 50          | 5 - 120        | 50         | 50        | 0   | 40        |      |
| Pyrene                         | ug/L  | 50            | 60           | 120         | 52 - 120       | 60         | 120       | 0   | 40        |      |
| 2,4,5-Trichlorophenol          | ug/L  | 100           | 133          | 133         | 45 - 130       | 134        | 134       | 1   | 40        | 1    |
| 2,4,6-Trichlorophenol          | ug/L  | 100           | 139          | 139         | 37 - 144       | 132        | 132       | 5   | 40        |      |

**Surrogates**

| Parameter                 | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|---------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| 2,4,6-Tribromophenol (SS) | %     | 100           | 142          | 142         | 23 - 170       | 136        | 136       | 4   |           |      |
| 2-Fluorobiphenyl (SS)     | %     | 50            | 51           | 102         | 15 - 130       | 50         | 99        | 2   |           |      |
| 2-Fluorophenol (SS)       | %     | 100           | 67           | 67          | 10 - 130       | 69         | 69        | 2   |           |      |
| Nitrobenzene-d5 (SS)      | %     | 50            | 47           | 95          | 10 - 130       | 48         | 95        | 0   |           |      |
| Phenol-d6 (SS)            | %     | 100           | 48           | 48          | 10 - 130       | 49         | 49        | 2   |           |      |
| Terphenyl-d14 (SS)        | %     | 50            | 62           | 124         | 15 - 170       | 64         | 127       | 2   |           |      |

**Matrix Spike (155132); Matrix Spike Dup (155133)**



## ENVIRONMENTAL ANALYSES

## QUALITY CONTROL DATA

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

Analysis Description: Semivolatile Organic Analysis

QC Batch: SPR/1548

Analysis Method: EPA 625.1

QC Batch Method: EPA 625.1

| Parameter                          | 2030307001<br>Result | Units | Spiked<br>Amount | Spike<br>Result | Spike<br>Rec % | Control<br>Limits | Dup<br>Result | Dup<br>Rec % | RPD | RPD<br>Limit | Qual |
|------------------------------------|----------------------|-------|------------------|-----------------|----------------|-------------------|---------------|--------------|-----|--------------|------|
| Acenaphthene                       | ND                   | ug/L  | 49               | 49              | 101            | 47 - 145          | 45            | 93           | 9   | 48           |      |
| Acenaphthylene                     | ND                   | ug/L  | 49               | 47              | 97             | 33 - 145          | 42            | 87           | 11  | 74           |      |
| Anthracene                         | ND                   | ug/L  | 49               | 56              | 115            | 27 - 133          | 56            | 115          | 0   | 66           |      |
| Benzidine                          | ND                   | ug/L  | 49               | 0               | <b>RNC</b>     | 1 - 130           | 0             | <b>RNC</b>   | 0   | 40           | 4    |
| Benzo(a)anthracene                 | ND                   | ug/L  | 49               | 51              | 105            | 33 - 143          | 50            | 103          | 2   | 53           |      |
| Benzo(a)pyrene                     | ND                   | ug/L  | 49               | 43              | 89             | 17 - 163          | 41            | 84           | 5   | 72           |      |
| Benzo(b)fluoranthene               | ND                   | ug/L  | 49               | 53              | 109            | 24 - 159          | 53            | 109          | 0   | 71           |      |
| Benzo(g,h,i)perylene               | ND                   | ug/L  | 49               | 16              | 33             | 1 - 219           | 14            | 29           | 13  | 97           |      |
| Benzo(k)fluoranthene               | ND                   | ug/L  | 49               | 53              | 109            | 11 - 162          | 48            | 99           | 10  | 63           |      |
| Benzyl butyl phthalate             | ND                   | ug/L  | 49               | 65              | 134            | 1 - 152           | 63            | 130          | 3   | 60           |      |
| 4-Bromophenyl phenyl ether         | ND                   | ug/L  | 49               | 57              | 117            | 53 - 127          | 54            | 111          | 5   | 43           |      |
| bis(2-Chloroethoxy) methane        | ND                   | ug/L  | 49               | 45              | 93             | 33 - 184          | 42            | 87           | 7   | 54           |      |
| bis(2-Chloroethyl) ether           | ND                   | ug/L  | 49               | 43              | 89             | 12 - 158          | 39            | 80           | 10  | 108          |      |
| bis(2-Chloroisopropyl) ether       | ND                   | ug/L  | 49               | 42              | 87             | 36 - 166          | 39            | 80           | 7   | 76           |      |
| 4-Chloro-3-methylphenol            | ND                   | ug/L  | 97               | 109             | 112            | 22 - 147          | 107           | 110          | 2   | 73           |      |
| 2-Chloronaphthalene                | ND                   | ug/L  | 49               | 43              | 89             | 60 - 120          | 39            | 80           | 10  | 24           |      |
| 2-Chlorophenol                     | ND                   | ug/L  | 97               | 83              | 85             | 23 - 134          | 78            | 80           | 6   | 61           |      |
| 4-Chlorophenyl phenyl ether        | ND                   | ug/L  | 49               | 56              | 115            | 25 - 158          | 53            | 109          | 6   | 61           |      |
| Chrysene                           | ND                   | ug/L  | 49               | 58              | 119            | 17 - 168          | 57            | 117          | 2   | 87           |      |
| Dibenzo(a,h)anthracene             | ND                   | ug/L  | 49               | 22              | 45             | 1 - 227           | 20            | 41           | 10  | 126          |      |
| 3,3'-Dichlorobenzidine             | ND                   | ug/L  | 49               | 0               | <b>RNC</b>     | 1 - 262           | 0             | <b>RNC</b>   | 0   | 108          | 4    |
| 2,4-Dichlorophenol                 | ND                   | ug/L  | 97               | 100             | 103            | 39 - 135          | 95            | 98           | 5   | 50           |      |
| Diethylphthalate                   | ND                   | ug/L  | 49               | 49              | 101            | 1 - 120           | 48            | 99           | 2   | 100          |      |
| 2,4-Dimethylphenol                 | ND                   | ug/L  | 97               | 82              | 84             | 32 - 120          | 81            | 83           | 1   | 58           |      |
| Dimethylphthalate                  | ND                   | ug/L  | 49               | 48              | 99             | 1 - 120           | 46            | 95           | 4   | 183          |      |
| Di-n-butylphthalate                | ND                   | ug/L  | 49               | 57              | 117            | 1 - 120           | 57            | 117          | 0   | 47           |      |
| 2,4-Dinitrophenol                  | ND                   | ug/L  | 97               | 149             | 153            | 1 - 191           | 144           | 148          | 3   | 132          |      |
| 2,4-Dinitrotoluene                 | ND                   | ug/L  | 49               | 60              | 124            | 39 - 139          | 58            | 119          | 3   | 42           |      |
| 2,6-Dinitrotoluene                 | ND                   | ug/L  | 49               | 56              | 115            | 50 - 158          | 54            | 111          | 4   | 48           |      |
| Di-n-octylphthalate                | ND                   | ug/L  | 49               | 61              | 126            | 4 - 146           | 60            | 124          | 2   | 69           |      |
| 1,2Diphenylhydrazine/Azobenz<br>en | ND                   | ug/L  | 49               | 48              | 99             | 1 - 130           | 46            | 95           | 4   | 40           |      |
| bis(2-Ethylhexyl) phthalate        | ND                   | ug/L  | 49               | 62              | 128            | 8 - 158           | 61            | 126          | 2   | 82           |      |
| Fluoranthene                       | ND                   | ug/L  | 49               | 61              | 126            | 26 - 137          | 61            | 126          | 0   | 66           |      |
| Fluorene                           | ND                   | ug/L  | 49               | 58              | 119            | 59 - 121          | 56            | 115          | 4   | 38           |      |
| Hexachlorobenzene                  | ND                   | ug/L  | 49               | 57              | 117            | 1 - 152           | 55            | 113          | 4   | 55           |      |
| Hexachlorobutadiene                | ND                   | ug/L  | 49               | 39              | 80             | 24 - 120          | 36            | 74           | 8   | 62           |      |
| Hexachlorocyclopentadiene          | ND                   | ug/L  | 49               | 28              | 58             | 1 - 130           | 23            | 47           | 20  | 40           |      |
| Hexachloroethane                   | ND                   | ug/L  | 49               | 37              | 76             | 40 - 120          | 34            | 70           | 8   | 52           |      |
| Indeno(1,2,3-cd)pyrene             | ND                   | ug/L  | 49               | 22              | 45             | 1 - 171           | 20            | 41           | 10  | 99           |      |
| Isophorone                         | ND                   | ug/L  | 49               | 47              | 97             | 1 - 130           | 44            | 91           | 7   | 93           |      |
| 2-Methyl-4,6-dinitrophenol         | ND                   | ug/L  | 97               | 147             | 151            | 1 - 181           | 145           | 149          | 1   | 203          |      |
| 2-Methylphenol (o-Cresol)          | ND                   | ug/L  | 97               | 81              | 83             | 1 - 130           | 77            | 79           | 5   | 40           |      |
| 3 & 4-Methylphenol(m&p<br>Cresol)  | ND                   | ug/L  | 97               | 75              | 77             | 1 - 130           | 73            | 75           | 3   | 40           |      |
| Naphthalene                        | ND                   | ug/L  | 49               | 41              | 84             | 21 - 133          | 38            | 78           | 8   | 65           |      |
| Nitrobenzene                       | ND                   | ug/L  | 49               | 44              | 91             | 35 - 180          | 40            | 82           | 10  | 62           |      |

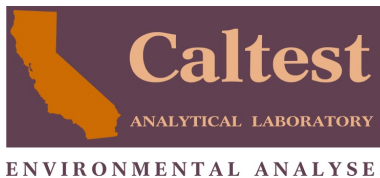
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## QUALITY CONTROL DATA

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

**Analysis Description:** Semivolatile Organic Analysis  
**Analysis Method:** EPA 625.1

**QC Batch:** SPR/1548  
**QC Batch Method:** EPA 625.1

| Parameter                  | Result | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|----------------------------|--------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| 2-Nitrophenol              | ND     | ug/L  | 97            | 94           | 97          | 29 - 182       | 86         | 89        | 9   | 55        |      |
| 4-Nitrophenol              | ND     | ug/L  | 97            | 66           | 68          | 1 - 132        | 73         | 75        | 10  | 131       |      |
| N-Nitrosodimethylamine     | ND     | ug/L  | 49            | 29           | 60          | 1 - 130        | 25         | 52        | 15  | 40        |      |
| N-Nitroso-di-n-propylamine | ND     | ug/L  | 49            | 47           | 97          | 1 - 230        | 44         | 91        | 7   | 87        |      |
| N-Nitrosodiphenylamine     | ND     | ug/L  | 49            | 56           | 115         | 1 - 155        | 55         | 113       | 2   | 40        |      |
| Pentachlorophenol          | ND     | ug/L  | 97            | 133          | 137         | 14 - 176       | 131        | 135       | 2   | 86        |      |
| Phenanthrene               | ND     | ug/L  | 49            | 58           | 119         | 54 - 120       | 56         | 115       | 4   | 39        |      |
| Phenol                     | ND     | ug/L  | 97            | 36           | 37          | 5 - 120        | 34         | 35        | 6   | 64        |      |
| Pyrene                     | ND     | ug/L  | 49            | 61           | 126         | 52 - 120       | 60         | 124       | 2   | 49        | 3    |
| 2,4,5-Trichlorophenol      | ND     | ug/L  | 97            | 112          | 115         | 1 - 130        | 113        | 116       | 1   | 40        |      |
| 2,4,6-Trichlorophenol      | ND     | ug/L  | 97            | 117          | 121         | 37 - 144       | 114        | 117       | 3   | 58        |      |

## Surrogates

| Parameter                 | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|---------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| 2,4,6-Tribromophenol (SS) | %     | 97            | 120          | 123         | 1 - 200        | 122        | 125       | 2   |           |      |
| 2-Fluorobiphenyl (SS)     | %     | 49            | 48           | 99          | 1 - 130        | 44         | 91        | 9   |           |      |
| 2-Fluorophenol (SS)       | %     | 97            | 53           | 54          | 1 - 130        | 51         | 53        | 3   |           |      |
| Nitrobenzene-d5 (SS)      | %     | 49            | 43           | 90          | 1 - 130        | 41         | 84        | 7   |           |      |
| Phenol-d6 (SS)            | %     | 97            | 38           | 39          | 1 - 130        | 36         | 37        | 4   |           |      |
| Terphenyl-d14 (SS)        | %     | 49            | 63           | 129         | 1 - 200        | 62         | 127       | 1   |           |      |

**Analysis Description:** Chlorinated Pesticides & PCBs Analysis  
**Analysis Method:** EPA 625.1

**QC Batch:** SPR/1549  
**QC Batch Method:** EPA 625.1

## Method Blank (155659)

| Parameter           | Results | Units | RL     | MDL    | Qual |
|---------------------|---------|-------|--------|--------|------|
| Aldrin              | ND      | ug/L  | 0.0050 | 0.0014 |      |
| alpha-BHC           | ND      | ug/L  | 0.010  | 0.0026 |      |
| beta-BHC            | ND      | ug/L  | 0.0050 | 0.0029 |      |
| delta-BHC           | ND      | ug/L  | 0.0050 | 0.0035 |      |
| gamma-BHC (Lindane) | ND      | ug/L  | 0.010  | 0.0022 |      |
| Chlordane           | ND      | ug/L  | 0.010  | 0.0034 |      |
| 4,4'-DDD            | ND      | ug/L  | 0.010  | 0.0021 |      |
| 4,4'-DDE            | ND      | ug/L  | 0.010  | 0.0009 |      |
| 4,4'-DDT            | ND      | ug/L  | 0.010  | 0.0038 |      |
| Dieldrin            | ND      | ug/L  | 0.010  | 0.0017 |      |
| Endosulfan I        | ND      | ug/L  | 0.010  | 0.0042 |      |
| Endosulfan II       | ND      | ug/L  | 0.010  | 0.0023 |      |
| Endosulfan sulfate  | ND      | ug/L  | 0.010  | 0.0011 |      |
| Endrin              | ND      | ug/L  | 0.010  | 0.0027 |      |
| Endrin aldehyde     | ND      | ug/L  | 0.010  | 0.0034 |      |
| Endrin ketone       | ND      | ug/L  | 0.010  | 0.0040 |      |
| Heptachlor          | ND      | ug/L  | 0.010  | 0.0031 |      |
| Heptachlor epoxide  | ND      | ug/L  | 0.010  | 0.0027 |      |

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## QUALITY CONTROL DATA

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

**Analysis Description:** Chlorinated Pesticides & PCBs Analysis  
**Analysis Method:** EPA 625.1

**QC Batch:** SPR/1549  
**QC Batch Method:** EPA 625.1

| Parameter    | Results | Units | RL    | MDL    | Qual |
|--------------|---------|-------|-------|--------|------|
| Methoxychlor | ND      | ug/L  | 0.010 | 0.0035 |      |
| PCB 1016     | ND      | ug/L  | 0.10  | 0.030  |      |
| PCB 1221     | ND      | ug/L  | 0.10  | 0.030  |      |
| PCB 1232     | ND      | ug/L  | 0.10  | 0.030  |      |
| PCB 1242     | ND      | ug/L  | 0.10  | 0.030  |      |
| PCB 1248     | ND      | ug/L  | 0.10  | 0.030  |      |
| PCB 1254     | ND      | ug/L  | 0.10  | 0.030  |      |
| PCB 1260     | ND      | ug/L  | 0.10  | 0.030  |      |
| Toxaphene    | ND      | ug/L  | 0.50  | 0.40   |      |

## Surrogates

| Parameter                 | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Qual |
|---------------------------|-------|---------------|--------------|-------------|----------------|------|
| Decachlorobiphenyl (SS)   | %     | 0.20          | 0.28         | 138         | 29 - 155       |      |
| Tetrachloro-m-xylene (SS) | %     | 0.20          | 0.15         | 77          | 23 - 94        |      |

## Laboratory Control Sample (155660); Laboratory Control Sample Dup (155661)

| Parameter           | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|---------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Aldrin              | ug/L  | 0.20          | 0.17         | 85          | 1 - 166        | 0.20       | 100       | 16  | 40        |      |
| alpha-BHC           | ug/L  | 0.20          | 0.18         | 90          | 49 - 157       | 0.21       | 105       | 15  | 40        |      |
| beta-BHC            | ug/L  | 0.20          | 0.21         | 105         | 24 - 149       | 0.24       | 120       | 13  | 40        |      |
| delta-BHC           | ug/L  | 0.20          | 0.21         | 105         | 1 - 120        | 0.25       | 125       | 17  | 40        | 6    |
| gamma-BHC (Lindane) | ug/L  | 0.20          | 0.19         | 95          | 40 - 162       | 0.22       | 110       | 15  | 40        |      |
| Chlordane           | ug/L  | 0.40          | 0.42         | 105         | 1 - 203        | 0.49       | 123       | 15  | 40        |      |
| 4,4'-DDD            | ug/L  | 0.20          | 0.27         | 135         | 1 - 145        | 0.33       | 165       | 20  | 40        | 6    |
| 4,4'-DDE            | ug/L  | 0.20          | 0.20         | 100         | 4 - 136        | 0.25       | 125       | 22  | 40        |      |
| 4,4'-DDT            | ug/L  | 0.20          | 0.30         | 150         | 1 - 203        | 0.36       | 180       | 18  | 40        |      |
| Dieldrin            | ug/L  | 0.20          | 0.20         | 100         | 29 - 136       | 0.24       | 120       | 18  | 40        |      |
| Endosulfan I        | ug/L  | 0.20          | 0.21         | 105         | 23 - 168       | 0.24       | 120       | 13  | 40        |      |
| Endosulfan II       | ug/L  | 0.20          | 0.25         | 125         | 37 - 173       | 0.29       | 145       | 15  | 40        |      |
| Endosulfan sulfate  | ug/L  | 0.20          | 0.22         | 110         | 1 - 120        | 0.25       | 125       | 13  | 40        | 6    |
| Endrin              | ug/L  | 0.20          | 0.30         | 150         | 1 - 239        | 0.35       | 175       | 15  | 40        |      |
| Endrin aldehyde     | ug/L  | 0.20          | 0.27         | 135         | 1 - 209        | 0.33       | 165       | 20  | 40        |      |
| Endrin ketone       | ug/L  | 0.20          | 0.27         | 135         | 26 - 217       | 0.33       | 165       | 20  | 40        |      |
| Heptachlor          | ug/L  | 0.20          | 0.23         | 115         | 1 - 192        | 0.26       | 130       | 12  | 40        |      |
| Heptachlor epoxide  | ug/L  | 0.20          | 0.21         | 105         | 26 - 155       | 0.24       | 120       | 13  | 40        |      |
| Methoxychlor        | ug/L  | 0.20          | 0.35         | 175         | 3 - 259        | 0.44       | 220       | 23  | 40        |      |

## Surrogates

| Parameter                 | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|---------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Decachlorobiphenyl (SS)   | %     | 0.20          | 0.26         | 130         | 29 - 155       | 0.28       | 143       | 9   | 40        |      |
| Tetrachloro-m-xylene (SS) | %     | 0.20          | 0.14         | 71          | 23 - 94        | 0.16       | 81        | 13  | 40        |      |

## Matrix Spike (155662); Matrix Spike Dup (155663)



## ENVIRONMENTAL ANALYSES

## QUALITY CONTROL DATA

Lab Order: Z030342

Project ID: MDLK FAILFSAFE EFF SEMIAN 2024

Analysis Description: Chlorinated Pesticides &amp; PCBs Analysis

QC Batch: SPR/1549

Analysis Method: EPA 625.1

QC Batch Method: EPA 625.1

| Parameter           | Z030171005<br>Result | Units | Spiked<br>Amount | Spike<br>Result | Spike<br>Rec % | Control<br>Limits | Dup<br>Result | Dup<br>Rec % | RPD | RPD<br>Limit | Qual |
|---------------------|----------------------|-------|------------------|-----------------|----------------|-------------------|---------------|--------------|-----|--------------|------|
| Aldrin              | ND                   | ug/L  | 0.19             | 0.18            | 95             | 1 - 166           | 0.19          | 100          | 5   | 81           |      |
| alpha-BHC           | ND                   | ug/L  | 0.19             | 0.17            | 89             | 60 - 140          | 0.15          | 79           | 13  | 40           |      |
| beta-BHC            | ND                   | ug/L  | 0.19             | 0.24            | 126            | 24 - 149          | 0.22          | 116          | 9   | 61           |      |
| delta-BHC           | ND                   | ug/L  | 0.19             | 0.22            | 116            | 1 - 120           | 0.20          | 105          | 10  | 129          |      |
| gamma-BHC (Lindane) | ND                   | ug/L  | 0.19             | 0.18            | 95             | 60 - 140          | 0.17          | 89           | 6   | 40           |      |
| Chlordane           | ND                   | ug/L  | 0.38             | 0.40            | 105            | 60 - 140          | 0.41          | 108          | 2   | 40           |      |
| 4,4'-DDD            | ND                   | ug/L  | 0.19             | 0.25            | 131            | 1 - 145           | 0.24          | 126          | 4   | 93           |      |
| 4,4'-DDE            | ND                   | ug/L  | 0.19             | 0.20            | 105            | 4 - 136           | 0.22          | 116          | 10  | 77           |      |
| 4,4'-DDT            | ND                   | ug/L  | 0.19             | 0.26            | 137            | 1 - 203           | 0.25          | 131          | 4   | 135          |      |
| Dieldrin            | ND                   | ug/L  | 0.19             | 0.18            | 95             | 29 - 136          | 0.19          | 100          | 5   | 62           |      |
| Endosulfan I        | ND                   | ug/L  | 0.19             | 0.22            | 116            | 60 - 140          | 0.21          | 110          | 5   | 40           |      |
| Endosulfan II       | ND                   | ug/L  | 0.19             | 0.24            | 126            | 60 - 140          | 0.23          | 121          | 4   | 40           |      |
| Endosulfan sulfate  | ND                   | ug/L  | 0.19             | 0.25            | 131            | 1 - 120           | 0.24          | 126          | 4   | 70           | 3    |
| Endrin              | ND                   | ug/L  | 0.19             | 0.31            | 163            | 60 - 140          | 0.30          | 158          | 3   | 40           | 3    |
| Endrin aldehyde     | ND                   | ug/L  | 0.19             | 0.24            | 126            | 1 - 209           | 0.25          | 131          | 4   | 75           |      |
| Endrin ketone       | ND                   | ug/L  | 0.19             | 0.25            | 131            | 60 - 140          | 0.24          | 126          | 4   | 40           |      |
| Heptachlor          | ND                   | ug/L  | 0.19             | 0.21            | 110            | 1 - 192           | 0.18          | 95           | 15  | 74           |      |
| Heptachlor epoxide  | ND                   | ug/L  | 0.19             | 0.20            | 105            | 26 - 155          | 0.16          | 84           | 22  | 101          |      |
| Methoxychlor        | ND                   | ug/L  | 0.19             | 0.30            | 158            | 60 - 140          | 0.30          | 158          | 0   | 40           | 3    |

## Surrogates

| Parameter                 | Units | Spiked<br>Amount | Spike<br>Result | Spike Rec<br>% | Control<br>Limits | Dup<br>Result | Dup<br>Rec % | RPD | RPD<br>Limit | Qual |
|---------------------------|-------|------------------|-----------------|----------------|-------------------|---------------|--------------|-----|--------------|------|
| Decachlorobiphenyl (SS)   | %     | 0.19             | 0.22            | 113            | 1 - 199           | 0.22          | 116          | 2   | 40           |      |
| Tetrachloro-m-xylene (SS) | %     | 0.19             | 0.13            | 68             | 11 - 134          | 0.13          | 69           | 2   | 40           |      |

Analysis Description: Volatile Organic Analysis

QC Batch: VMS/1446

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

## Method Blank (155229)

| Parameter                      | Results | Units | RL   | MDL   | Qual |
|--------------------------------|---------|-------|------|-------|------|
| Acrolein                       | ND      | ug/L  | 2.0  | 0.81  |      |
| Acrylonitrile                  | ND      | ug/L  | 2.0  | 0.75  |      |
| Benzene                        | ND      | ug/L  | 0.50 | 0.18  |      |
| Bromodichloromethane           | ND      | ug/L  | 0.50 | 0.080 |      |
| Bromoform                      | ND      | ug/L  | 0.50 | 0.15  |      |
| Bromomethane (Methyl Bromide)  | ND      | ug/L  | 0.50 | 0.13  |      |
| Carbon tetrachloride           | ND      | ug/L  | 0.50 | 0.21  |      |
| Chlorobenzene                  | ND      | ug/L  | 0.50 | 0.18  |      |
| Chloroethane (Ethyl Chloride)  | ND      | ug/L  | 0.50 | 0.46  |      |
| 2-Chloroethyl vinyl ether      | ND      | ug/L  | 1.0  | 0.36  |      |
| Chloroform                     | ND      | ug/L  | 0.50 | 0.17  |      |
| Chloromethane(Methyl Chloride) | ND      | ug/L  | 0.50 | 0.46  |      |
| Dibromochloromethane           | ND      | ug/L  | 0.25 | 0.17  |      |
| 1,2-Dichlorobenzene            | ND      | ug/L  | 0.50 | 0.27  |      |



**QUALITY CONTROL DATA**

Lab Order: Z030342  
Project ID: MDLK FAILSAFE EFF SEMIAN 2024

**Analysis Description:** Volatile Organic Analysis  
**Analysis Method:** EPA 624.1

**QC Batch:** VMS/1446  
**QC Batch Method:** EPA 624.1

| Parameter                      | Results | Units | RL   | MDL   | Qual |
|--------------------------------|---------|-------|------|-------|------|
| 1,3-Dichlorobenzene            | ND      | ug/L  | 0.50 | 0.18  |      |
| 1,4-Dichlorobenzene            | ND      | ug/L  | 0.50 | 0.18  |      |
| Dichlorodifluoromethane (F-12) | ND      | ug/L  | 0.50 | 0.32  |      |
| 1,1-Dichloroethane             | ND      | ug/L  | 0.50 | 0.15  |      |
| 1,2-Dichloroethane (EDC)       | ND      | ug/L  | 0.50 | 0.17  |      |
| 1,1-Dichloroethene             | ND      | ug/L  | 0.50 | 0.21  |      |
| cis-1,2-Dichloroethene         | ND      | ug/L  | 0.50 | 0.15  |      |
| trans-1,2-Dichloroethene       | ND      | ug/L  | 0.50 | 0.10  |      |
| 1,2-Dichloropropane            | ND      | ug/L  | 0.50 | 0.15  |      |
| cis-1,3-Dichloropropene        | ND      | ug/L  | 0.50 | 0.090 |      |
| trans-1,3-Dichloropropene      | ND      | ug/L  | 0.50 | 0.46  |      |
| Dichlorotrifluoroethane (F123) | ND      | ug/L  | 0.50 | 0.14  |      |
| Ethylbenzene                   | ND      | ug/L  | 0.50 | 0.10  |      |
| Methyl tert-butyl ether (MTBE) | ND      | ug/L  | 0.50 | 0.15  |      |
| Methylene chloride             | ND      | ug/L  | 0.50 | 0.49  |      |
| 1,1,2,2-Tetrachloroethane      | ND      | ug/L  | 0.50 | 0.15  |      |
| Tetrachloroethene (PCE)        | ND      | ug/L  | 0.50 | 0.19  |      |
| Toluene                        | ND      | ug/L  | 0.50 | 0.19  |      |
| 1,1,2-Trichloroethane          | ND      | ug/L  | 0.50 | 0.16  |      |
| 1,1,1-Trichloroethane (TCA)    | ND      | ug/L  | 0.50 | 0.19  |      |
| Trichloroethene (TCE)          | ND      | ug/L  | 0.50 | 0.20  |      |
| Trichlorofluoromethane (F-11)  | ND      | ug/L  | 0.50 | 0.29  |      |
| Trichlorotrifluoroethane F-113 | ND      | ug/L  | 1.0  | 0.13  |      |
| Vinyl chloride                 | ND      | ug/L  | 0.50 | 0.25  |      |
| Xylenes, total                 | ND      | ug/L  | 0.50 | 0.47  |      |

**Surrogates**

| Parameter                  | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Qual |
|----------------------------|-------|---------------|--------------|-------------|----------------|------|
| 1,2-Dichloroethane-d4 (SS) | %     | 12            | 13           | 109         | 66 - 137       |      |
| 4-Bromofluorobenzene (SS)  | %     | 12            | 13           | 105         | 80 - 120       |      |
| Dibromofluoromethane (SS)  | %     | 12            | 13           | 111         | 71 - 133       |      |
| Toluene-d8 (SS)            | %     | 12            | 12           | 97          | 61 - 136       |      |

**Laboratory Control Sample (155230); Laboratory Control Sample Dup (155231)**

| Parameter                     | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|-------------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Acrolein                      | ug/L  | 20            | 17           | 85          | 60 - 140       | 19         | 95        | 11  | 60        |      |
| Acrylonitrile                 | ug/L  | 20            | 19           | 95          | 60 - 140       | 21         | 105       | 10  | 60        |      |
| Benzene                       | ug/L  | 5.0           | 4.9          | 98          | 65 - 135       | 5.0        | 100       | 2   | 61        |      |
| Bromodichloromethane          | ug/L  | 5.0           | 5.0          | 100         | 65 - 135       | 4.6        | 92        | 8   | 56        |      |
| Bromoform                     | ug/L  | 5.0           | 4.0          | 80          | 70 - 130       | 4.6        | 92        | 14  | 42        |      |
| Bromomethane (Methyl Bromide) | ug/L  | 5.0           | 4.7          | 94          | 15 - 185       | 5.7        | 114       | 19  | 61        |      |
| Carbon tetrachloride          | ug/L  | 5.0           | 4.9          | 98          | 70 - 130       | 5.4        | 108       | 10  | 41        |      |
| Chlorobenzene                 | ug/L  | 5.0           | 4.4          | 88          | 65 - 135       | 4.4        | 88        | 0   | 53        |      |
| Chloroethane (Ethyl Chloride) | ug/L  | 5.0           | 4.2          | 84          | 40 - 160       | 4.8        | 96        | 13  | 78        |      |
| 2-Chloroethyl vinyl ether     | ug/L  | 10            | 9.6          | 96          | 2.50 - 225     | 9.2        | 92        | 4   | 71        |      |



## QUALITY CONTROL DATA

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

Analysis Description: Volatile Organic Analysis

QC Batch: VMS/1446

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

| Parameter                      | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|--------------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Chloroform                     | ug/L  | 5.0           | 4.7          | 94          | 70 - 135       | 4.9        | 98        | 4   | 54        |      |
| Chloromethane(Methyl Chloride) | ug/L  | 5.0           | 4.4          | 88          | 5 - 205        | 5.1        | 102       | 15  | 60        |      |
| Dibromochloromethane           | ug/L  | 5.0           | 4.1          | 82          | 70 - 135       | 4.9        | 98        | 18  | 50        |      |
| 1,2-Dichlorobenzene            | ug/L  | 5.0           | 4.5          | 90          | 65 - 135       | 5.0        | 100       | 11  | 57        |      |
| 1,3-Dichlorobenzene            | ug/L  | 5.0           | 4.4          | 88          | 70 - 130       | 4.3        | 86        | 2   | 43        |      |
| 1,4-Dichlorobenzene            | ug/L  | 5.0           | 4.4          | 88          | 65 - 135       | 4.3        | 86        | 2   | 57        |      |
| Dichlorodifluoromethane (F-12) | ug/L  | 5.0           | 4.9          | 98          | 44 - 166       | 5.5        | 110       | 12  | 30        |      |
| 1,1-Dichloroethane             | ug/L  | 5.0           | 5.1          | 102         | 70 - 130       | 5.0        | 100       | 2   | 40        |      |
| 1,2-Dichloroethane (EDC)       | ug/L  | 5.0           | 4.7          | 94          | 70 - 130       | 5.1        | 102       | 8   | 30        |      |
| 1,1-Dichloroethene             | ug/L  | 5.0           | 4.3          | 86          | 50 - 150       | 4.9        | 98        | 13  | 32        |      |
| cis-1,2-Dichloroethene         | ug/L  | 5.0           | 5.3          | 106         | 72 - 134       | 4.7        | 94        | 12  | 30        |      |
| trans-1,2-Dichloroethene       | ug/L  | 5.0           | 4.6          | 92          | 70 - 130       | 5.5        | 110       | 18  | 45        |      |
| 1,2-Dichloropropane            | ug/L  | 5.0           | 5.1          | 102         | 35 - 165       | 4.6        | 92        | 10  | 55        |      |
| cis-1,3-Dichloropropene        | ug/L  | 5.0           | 5.1          | 102         | 25 - 175       | 4.7        | 94        | 8   | 58        |      |
| trans-1,3-Dichloropropene      | ug/L  | 5.0           | 4.4          | 88          | 50 - 150       | 4.5        | 90        | 2   | 86        |      |
| Dichlorotrifluoroethane (F123) | ug/L  | 5.0           | 4.0          | 80          | 64 - 142       | 4.8        | 96        | 18  | 30        |      |
| Ethylbenzene                   | ug/L  | 5.0           | 4.4          | 88          | 60 - 140       | 4.9        | 98        | 11  | 30        |      |
| Methyl tert-butyl ether (MTBE) | ug/L  | 5.0           | 4.5          | 90          | 68 - 142       | 5.4        | 108       | 18  | 30        |      |
| Methylene chloride             | ug/L  | 5.0           | 4.9          | 98          | 60 - 140       | 4.9        | 98        | 0   | 28        |      |
| 1,1,2,2-Tetrachloroethane      | ug/L  | 5.0           | 4.3          | 86          | 60 - 140       | 4.7        | 94        | 9   | 61        |      |
| Tetrachloroethene (PCE)        | ug/L  | 5.0           | 4.2          | 84          | 70 - 130       | 4.8        | 96        | 13  | 39        |      |
| Toluene                        | ug/L  | 5.0           | 5.9          | 118         | 70 - 130       | 5.0        | 100       | 17  | 41        |      |
| 1,1,2-Trichloroethane          | ug/L  | 5.0           | 4.6          | 92          | 70 - 130       | 4.6        | 92        | 0   | 45        |      |
| 1,1,1-Trichloroethane (TCA)    | ug/L  | 5.0           | 4.5          | 90          | 70 - 130       | 5.0        | 100       | 11  | 36        |      |
| Trichloroethene (TCE)          | ug/L  | 5.0           | 4.7          | 94          | 65 - 135       | 4.6        | 92        | 2   | 48        |      |
| Trichlorofluoromethane (F-11)  | ug/L  | 5.0           | 4.7          | 94          | 50 - 150       | 5.0        | 100       | 6   | 84        |      |
| Trichlorotrifluoroethane F-113 | ug/L  | 5.0           | 3.9          | 78          | 62 - 151       | 4.5        | 90        | 14  | 30        |      |
| Vinyl chloride                 | ug/L  | 5.0           | 4.3          | 86          | 5 - 195        | 4.9        | 98        | 13  | 66        |      |
| Xylenes, total                 | ug/L  | 15            | 15           | 100         | 58 - 138       | 16         | 107       | 6   | 30        |      |

## Surrogates

| Parameter                  | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|----------------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| 1,2-Dichloroethane-d4 (SS) | %     | 12            | 11           | 93          | 66 - 137       | 12         | 101       | 9   | 30        |      |
| 4-Bromofluorobenzene (SS)  | %     | 12            | 12           | 102         | 80 - 120       | 12         | 97        | 5   | 30        |      |
| Dibromofluoromethane (SS)  | %     | 12            | 12           | 100         | 71 - 133       | 12         | 99        | 0   | 30        |      |
| Toluene-d8 (SS)            | %     | 12            | 13           | 112         | 61 - 136       | 12         | 97        | 14  | 30        |      |

## Matrix Spike (155632); Matrix Spike Dup (155633)

| Parameter            | Z030307001 Result | Units | Spiked Amount | Spike Result | Spike Rec % | Control Limits | Dup Result | Dup Rec % | RPD | RPD Limit | Qual |
|----------------------|-------------------|-------|---------------|--------------|-------------|----------------|------------|-----------|-----|-----------|------|
| Acrolein             | ND                | ug/L  | 80            | 14           | 18          | 40 - 160       | 37         | 46        | 90  | 50        | 5    |
| Acrylonitrile        | ND                | ug/L  | 80            | 82           | 103         | 40 - 160       | 112        | 140       | 31  | 50        |      |
| Benzene              | ND                | ug/L  | 20            | 19           | 95          | 37 - 151       | 17         | 85        | 11  | 30        |      |
| Bromodichloromethane | ND                | ug/L  | 20            | 19           | 95          | 35 - 155       | 19         | 95        | 0   | 30        |      |
| Bromoform            | ND                | ug/L  | 20            | 18           | 90          | 45 - 169       | 20         | 100       | 11  | 30        |      |



## QUALITY CONTROL DATA

Lab Order: Z030342

Project ID: MDLK FAILSAFE EFF SEMIAN 2024

Analysis Description: Volatile Organic Analysis

QC Batch: VMS/1446

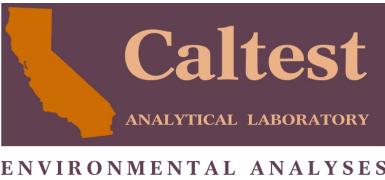
Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

| Parameter                      | 2030307001<br>Result | Units | Spiked<br>Amount | Spike<br>Result | Spike<br>Rec % | Control<br>Limits | Dup<br>Result | Dup<br>Rec % | RPD | RPD<br>Limit | Qual |
|--------------------------------|----------------------|-------|------------------|-----------------|----------------|-------------------|---------------|--------------|-----|--------------|------|
| Bromomethane (Methyl Bromide)  | ND                   | ug/L  | 20               | 17              | 85             | 2.50 - 242        | 18            | 90           | 6   | 45           |      |
| Carbon tetrachloride           | ND                   | ug/L  | 20               | 21              | 105            | 70 - 140          | 19            | 95           | 10  | 30           |      |
| Chlorobenzene                  | ND                   | ug/L  | 20               | 17              | 85             | 37 - 160          | 17            | 85           | 0   | 30           |      |
| Chloroethane (Ethyl Chloride)  | ND                   | ug/L  | 20               | 14              | 70             | 14 - 230          | 14            | 70           | 0   | 40           |      |
| 2-Chloroethyl vinyl ether      | ND                   | ug/L  | 40               | 33              | 83             | 2.50 - 305        | 38            | 95           | 14  | 40           |      |
| Chloroform                     | 0.84                 | ug/L  | 20               | 20              | 96             | 51 - 138          | 18            | 86           | 11  | 30           |      |
| Chloromethane(Methyl Chloride) | ND                   | ug/L  | 20               | 17              | 85             | 5 - 273           | 21            | 105          | 21  | 60           |      |
| Dibromochloromethane           | ND                   | ug/L  | 20               | 20              | 100            | 53 - 149          | 21            | 105          | 5   | 30           |      |
| 1,2-Dichlorobenzene            | ND                   | ug/L  | 20               | 17              | 85             | 18 - 190          | 17            | 85           | 0   | 30           |      |
| 1,3-Dichlorobenzene            | ND                   | ug/L  | 20               | 18              | 90             | 59 - 156          | 18            | 90           | 0   | 30           |      |
| 1,4-Dichlorobenzene            | ND                   | ug/L  | 20               | 17              | 85             | 18 - 190          | 17            | 85           | 0   | 30           |      |
| Dichlorodifluoromethane (F-12) | ND                   | ug/L  | 20               | 21              | 105            | 55 - 152          | 24            | 120          | 13  | 45           |      |
| 1,1-Dichloroethane             | ND                   | ug/L  | 20               | 20              | 100            | 59 - 155          | 25            | 125          | 22  | 30           |      |
| 1,2-Dichloroethane (EDC)       | ND                   | ug/L  | 20               | 19              | 95             | 49 - 155          | 18            | 90           | 5   | 30           |      |
| 1,1-Dichloroethene             | ND                   | ug/L  | 20               | 19              | 95             | 2.50 - 234        | 24            | 120          | 23  | 30           |      |
| cis-1,2-Dichloroethene         | ND                   | ug/L  | 20               | 19              | 95             | 78 - 124          | 23            | 115          | 19  | 30           |      |
| trans-1,2-Dichloroethene       | ND                   | ug/L  | 20               | 22              | 110            | 54 - 156          | 26            | 130          | 17  | 30           |      |
| 1,2-Dichloropropane            | ND                   | ug/L  | 20               | 17              | 85             | 2.50 - 210        | 19            | 95           | 11  | 30           |      |
| cis-1,3-Dichloropropene        | ND                   | ug/L  | 20               | 18              | 90             | 2.50 - 227        | 20            | 100          | 11  | 30           |      |
| trans-1,3-Dichloropropene      | ND                   | ug/L  | 20               | 18              | 90             | 17 - 183          | 20            | 100          | 11  | 30           |      |
| Dichlorotrifluoroethane (F123) | ND                   | ug/L  | 20               | 19              | 95             | 77 - 128          | 22            | 110          | 15  | 30           |      |
| Ethylbenzene                   | J0.10                | ug/L  | 20               | 20              | 100            | 37 - 162          | 19            | 95           | 5   | 30           |      |
| Methyl tert-butyl ether (MTBE) | ND                   | ug/L  | 20               | 20              | 100            | 67 - 137          | 23            | 115          | 14  | 30           |      |
| Methylene chloride             | ND                   | ug/L  | 20               | 18              | 90             | 2.50 - 221        | 24            | 120          | 29  | 30           |      |
| 1,1,2,2-Tetrachloroethane      | ND                   | ug/L  | 20               | 20              | 100            | 46 - 157          | 21            | 105          | 5   | 30           |      |
| Tetrachloroethene (PCE)        | ND                   | ug/L  | 20               | 18              | 90             | 64 - 148          | 19            | 95           | 5   | 30           |      |
| Toluene                        | J0.24                | ug/L  | 20               | 20              | 99             | 47 - 150          | 20            | 99           | 0   | 30           |      |
| 1,1,2-Trichloroethane          | ND                   | ug/L  | 20               | 18              | 90             | 52 - 150          | 19            | 95           | 5   | 30           |      |
| 1,1,1-Trichloroethane (TCA)    | ND                   | ug/L  | 20               | 21              | 105            | 52 - 162          | 17            | 85           | 21  | 30           |      |
| Trichloroethene (TCE)          | ND                   | ug/L  | 20               | 17              | 85             | 70 - 157          | 19            | 95           | 11  | 30           |      |
| Trichlorofluoromethane (F-11)  | ND                   | ug/L  | 20               | 19              | 95             | 17 - 181          | 21            | 105          | 10  | 40           |      |
| Trichlorotrifluoroethane F-113 | ND                   | ug/L  | 20               | 19              | 95             | 57 - 159          | 20            | 100          | 5   | 30           |      |
| Vinyl chloride                 | ND                   | ug/L  | 20               | 19              | 95             | 2.50 - 251        | 24            | 120          | 23  | 40           |      |
| Xylenes, total                 | 0.50                 | ug/L  | 60               | 62              | 103            | 49 - 146          | 61            | 101          | 2   | 30           |      |

## Surrogates

| Parameter                  | Units | Spiked<br>Amount | Spike<br>Result | Spike Rec<br>% | Control<br>Limits | Dup<br>Result | Dup<br>Rec % | RPD | RPD<br>Limit | Qual |
|----------------------------|-------|------------------|-----------------|----------------|-------------------|---------------|--------------|-----|--------------|------|
| 1,2-Dichloroethane-d4 (SS) | %     | 12               | 10              | 86             | 57 - 148          | 10            | 83           | 4   | 30           |      |
| 4-Bromofluorobenzene (SS)  | %     | 12               | 11              | 90             | 80 - 120          | 11            | 90           | 0   | 30           |      |
| Dibromofluoromethane (SS)  | %     | 12               | 12              | 98             | 63 - 142          | 10            | 86           | 13  | 30           |      |
| Toluene-d8 (SS)            | %     | 12               | 11              | 95             | 46 - 145          | 11            | 88           | 7   | 30           |      |



QUALITY CONTROL DATA QUALIFIERS

Lab Order: Z030342  
Project ID: MDLK FAILFSAFE EFF SEMIAN 2024

Quality Control Parameter Qualifiers

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

NS - means not spiked and will not have recoveries reported for Analyte Spike Amounts

QC Codes Keys: These descriptors are used to help identify the specific QC samples and clarify the report.

MB - Method Blank

Method Blanks are reported to the same Method Detection Limits (MDLs) or Reporting Limits (RLs) as the analytical samples in the corresponding QC batch.

LCS/LCSD - Laboratory Control Spike / Laboratory Control Spike Duplicate

DUP - Duplicate of Original Sample Matrix

MS/MSD - Matrix Spike / Matrix Spike Duplicate

RPD - Relative Percent Difference

%Recovery - Spike Recovery stated as a percentage

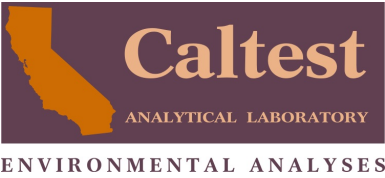
- 1 Spike recovery for this compound was high, outside Caltest acceptance criteria. A sample result of 'ND' for this compound should be considered valid, otherwise any other value reported should be considered estimated.
- 2 LCS/LCSD RPD exceeds control limits. Batch accepted based on LCS/LCSD recoveries. Meets all pertinent method criteria.
- 3 High Matrix Spike recovery(ies) due to possible matrix interferences in the QC sample. QC batch accepted based on LCS and RPD results.
- 4 RNC = Recovery Not Calculated. Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were not calculated due to matrix interferences concealing the added spike concentration.
- 5 Matrix spike recovery(ies) and RPD outside control limit. Sample result accepted based on LCS and Method Blank.
- 6 LCSD for RPD purposes only. Batch accepted based on LCS recoveries. Meets all pertinent method criteria.



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(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: Z030342  
Project ID: MDLK FAILFSAFE EFF SEMIAN 2024

| Lab ID                      | Sample ID         | Prep Batch | Prep Method |
|-----------------------------|-------------------|------------|-------------|
| <b>SMS/1463 - EPA 625.1</b> |                   |            |             |
| Z030342002                  | MDLK FAILSAFE EFF | SPR/1548   | EPA 625.1   |
| <b>SMS/1474 - EPA 625.1</b> |                   |            |             |
| Z030342002                  | MDLK FAILSAFE EFF | SPR/1549   | EPA 625.1   |
| <b>VMS/1446 - EPA 624.1</b> |                   |            |             |
| Z030342001                  | MDLK FAILSAFE EFF | VMS/1446   | EPA 624.1   |



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**Caltest**  
ANALYTICAL LABORATORY

1885 N. KELLY ROAD, NAPA, CA 94558 (707) 258-4000 info@caltestlabs.com www.caltestlabs.com

**SAMPLE CHAIN OF CUSTODY**

CLIENT: Encina Wastewater Authority

REPORT ATTN: MDK Failsafe Effluent Semi Annual 2024

PROJECT NAME / PROJECT NUMBER:

REPORTING OFFICE: Carlsbad

STATE: CA ZIP: 92011

PHONE NUMBER: (760) 268-8801 EMAIL ADDRESS: rachael@encinajpa.com

SAMPLER (PRINT & SIGN NAME): *[Signature]*

| DATE/TIME     | RELINQUISHED BY    | RECEIVED BY | DATE/TIME      | RELINQUISHED BY | RECEIVED BY        | DATE/TIME | RELINQUISHED BY | RECEIVED BY |
|---------------|--------------------|-------------|----------------|-----------------|--------------------|-----------|-----------------|-------------|
| 3/6/24 / 1200 | <i>[Signature]</i> | FedEx       | 3/7/24 / 09:30 | FedEx           | <i>[Signature]</i> |           |                 |             |

**TEMP:** 33.3 °C / 50 °C

**SEALED:** N

**INTACT:** N

**ON ICE:** N

**REPORTING OPTIONS (Choose One):** EMAIL MAIL BOTH

**COMMENTS:**

**ANALYSES REQUESTED**

EPA 624 LL

Acrolein & Acrylonitrile

EPA 625 LL + PAH + OCP's

**CONTAINER TYPES:** AL = Amber Liter, AML = 500 mL Amber, PT = Pint (Plastic), QT = Quart (Plastic), HG = Half Gallon (Plastic), SJ = Soil Jar, B4 = 4oz BACT, BT = Brass Titer, VOA = 40mL VOA, OTG = Other Type Container

**MATRIX:** W = Aqueous Nondrinking Water, Digested Weeds, ML = Final Effluent, Minimum-Level, Low-Level R.L., DW = Drinking Water, SL = Soil Sludge, Solid = FP = Free Product

**TURN-AROUND TIME**

☒ STANDARD

☐ RUSH

**DUE DATE:**

**REGULATORY DRINKING WATER?**

Yes / No

**If Yes, write 13-digit CLIP Code(s) below:**

**Please provide detection limits & reporting limits**

**LAB ORDER #**

2030342



# **Appendix B:**

## **SIU List**

## Appendix B

### Class I and II

| Encina Wastewater Authority                                                                                                                                                                                                                                                                                                                                                                                                                             | Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations | Reporting Quarter Status | Flow Rate (GPD) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------|-----------------|------------------|--------------------------|-----------------|
| AlSCO Uniforms                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                  | 2                | 1                 | 1               | 0                | C                        |                 |
| 760 Shadowridge Drive                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Vista, CA, 92083                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Laundry - Local Limits                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                  | 1                | 1                 | 2               | 0                | C                        |                 |
| Pretreatment: A water reclamation system consisting of shaker screens, centrifuges, and ceramic filter media reclaim water for use in the washing process. When reclaimed water is generated in excess of demand from washers it is discharged to Sample Point #1 via an automated 3-way valve controlled by level sensors in the water reclamation tanks. Boiler blowdown, and soft water regeneration are discharged from the utilities room to SP#1. |                    |                  |                   |                 |                  |                          | 30,000          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                  |                   |                 |                  |                          |                 |
| Bachem Americas, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                  | 0                | 2                 | 1               | 0                | C                        |                 |
| 1271 Avenida Chelsea                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Vista, CA, 92081                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                  | 0                | 1                 | 1               | 1                | NC                       |                 |
| 40 CFR Part 439, Subpart C PSNS                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: Three-stage clarifier equipped with an automated pH neutralization system and hauling.                                                                                                                                                                                                                                                                                                                                                    |                    |                  |                   |                 |                  |                          | 1,450           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                  |                   |                 |                  |                          |                 |
| Captek Softgel International, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 2710 Progress Street                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Vista, CA, 92081                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: The East equipment pad consists of a screen basket, 3-stage clarifier, equalization tanks, sludge tank, chemical injection manifold and dissolved air floatation (DAF). The DAF unit discharges to SP#1. The West Equipment pad contains a 3-stage clarifier, with a pump in the final chamber to pump wastewater to SP#1.                                                                                                                |                    |                  |                   |                 |                  |                          | 30,000          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                  |                   |                 |                  |                          |                 |
| Carlsbad Technology, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                  | 0                | 2                 | 6               | 1                | NC                       |                 |
| 5923 Balfour Court                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                  | 0                | 2                 | 2               | 0                | C                        |                 |
| Carlsbad, CA, 92008                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                  | 1                | 2                 | 2               | 0                | C                        |                 |
| 40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                  | 0                | 2                 | 2               | 0                | C                        |                 |
| Pretreatment: 5923 Balfour Court: All process wastewater is collected in a 3,000-gallon underground storage tank. Prior to discharge, the pH is checked and adjusted if necessary. 5922 Farnsworth Court: All process wastewater is collected in a 625-gallon tank. Prior to discharge, the pH is checked and adjusted if necessary.                                                                                                                    |                    |                  |                   |                 |                  |                          | 865             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                  |                   |                 |                  |                          |                 |
| Cintas Corporation                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                  | 1                | 1                 | 1               | 1                | NC                       |                 |
| 460 West California Avenue                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                  | 0                | 1                 | 1               | 1                | NC                       |                 |
| Vista, CA, 92084                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Laundry - Local Limits                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |

| Encina Wastewater Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations | Reporting Quarter Status | Flow Rate (GPD) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------|-----------------|------------------|--------------------------|-----------------|
| Pretreatment: Shaker screen, aerated Pit mixer #1, aerated Pit mixer #2, equalization tank, bentonite injection, Dissolved Air Floatation (DAF), defoaming injection system, and filter press.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                  |                   |                 |                  |                          | 70,000          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                  |                   |                 |                  |                          |                 |
| Glanbia Nutritionals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 2840 Loker Ave East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2                  | 0                | 1                 | 0               | 0                | C                        |                 |
| #101, Carlsbad, CA, 92010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                  | 1                | 1                 | 2               | 0                | C                        |                 |
| 40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: pH adjustment (Caustic or acid), two-stage clarifier, and hauling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                  |                   |                 |                  |                          | 750             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                  |                   |                 |                  |                          |                 |
| Hollandia Dairy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                  | 1                | 1                 | 1               | 0                | C                        |                 |
| 622 East Mission Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2                  | 1                | 1                 | 1               | 0                | C                        |                 |
| San Marcos, CA, 92069                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                  | 1                | 2                 | 1               | 0                | C                        |                 |
| Food Processing - Local Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: Pre-screen, flow equalization, pH neutralization, dual Moving Bed Biofilm Reactors (MBBR), Dissolved Air Floatation (DAF), Centrifuge for dewatering sludge, hauling of pretreatment cake/sludge, and a sand/oil separator. Wastewater from the collection sump outside the creamery is pumped to the pretreatment system → wastewater flows into pre-screen to remove solids, such as small pieces of paper or plastic → equalization tank, where pH is neutralized to pH 6-8.5 → MBBR1, aerobic biological removal of Biochemical Oxygen Demand (BOD) → MBBR2, aerobic biological removal of BOD → DAF, removal of Total Suspended Solids (TSS) and Oil & Grease → effluent to sample point. Pretreatment sludge waste is dewatered using a centrifuge and sent to a holding tank for offsite disposal. Concentrate is routed to the DAF for treatment prior to discharge to SP#1.                                                                                                                                                                                                              |                    |                  |                   |                 |                  |                          | 55,000          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                  |                   |                 |                  |                          |                 |
| HRE Performance Wheels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                  | 1                | 2                 | 2               | 5                | NC                       |                 |
| 2611 Commerce Way                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
| #D, Vista, CA, 92081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                  | 0                | 1                 | 3               | 4                | NC                       |                 |
| 40 CFR Part 433 PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4                  | 1                | 0                 | 0               | 0                | C                        |                 |
| Pretreatment: The coating rinses are treated in a closed-loop ion exchange recycling system and reused while the paint stripping rinses are filtered and reused for a period of time and then hauled for off-site disposal. The recycling system is equipped with pre-filters, carbon filter, cartridge/bag filter, cation column, anion column, and UV. The recycling system is regenerated off-site and utilizes a single train design. Wastewater generated from the polishing tumbler and tumbler/polishing rinse table is discharged to sewer through Sample Point #1. Pretreatment includes a filtration system which processes all wastewater from the rinse table and polishing tumblers before being discharged. The filtration includes a sump tank where water accumulates and solids settle to the bottom in which there's a metal grate where they are hauled as sludge. Once the sump reaches a certain capacity a float switch turns on and pumps the wastewater through a 30 micron particle filter, then into a 20 micron particle filter, then into a 10 micron particle filter, then into an |                    |                  |                   |                 |                  |                          | 200             |

| Encina Wastewater Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations | Reporting Quarter Status | Flow Rate (GPD) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------|-----------------|------------------|--------------------------|-----------------|
| oil filter before it is discharged into SP1. The tumbling solution is recycled through a centrifuge using a flocculant (Trowal Pur R) to remove solids. Once spent, the solution is collected and hauled for off-site disposal. The sludge is disposed of as a solid waste. Locally regulated wastewater (condensate) generated from the air compressor and packaging dryers is treated to remove oil and then plumbed through SP#1 to sewer downstream of Sample Point #1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                  |                   |                 |                  |                          |                 |
| <b>Hughes Circuits, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                  | 0                | 1                 | 2               | 0                | C                        |                 |
| 540 South Pacific Street                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                  | 0                | 2                 | 2               | 0                | C                        |                 |
| San Marcos, CA, 92078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                  | 0                | 1                 | 2               | 0                | C                        |                 |
| 40 CFR Part 433 PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4                  | 1                | 2                 | 2               | 0                | C                        |                 |
| <p>Pretreatment: Silver Recovery Unit (SRU): Not currently in use, but in reserve. In the photo silver imaging process, the fixer solution is discharged through a SRU to remove silver from the wastewater. Untreated developer solution and the SRU effluent (treated fixer solution from the process) are manually discharged to the pretreatment system #1 (FT) via the Collection Tank.</p> <p>Pre-settling: Pumice scrub sinks flow through a settling chamber to remove solids; wastewater is then discharged to the pretreatment system #1 (FT) via the Collection Tank.</p> <p>Batch Treatment (WBT) (misc. wastes): Spent process baths from the Cobra bond line, pattern plate line, tin stripper line, nitric acid line, electroless nickel line, micro etch line, and various acid and alkaline cleaners are separated and collected in 55-gallon drums for batch treatment in a 350-gallon conical treatment tank within the pretreatment area. Treated effluent is discharged through Pretreatment System #1 (metals, pH) for further treatment, while the resulting sludge is pumped through a filter press. Filter cake is collected and hauled off-site for disposal. The supernatant from the filter press is routed back to Pretreatment System #1.</p> <p>Pretreatment System #1 (FT) (metals, pH): Spent chemical baths and rinse water from the processes (outlined in the Process Operation Flow section) to a 700-gallon Collection Tank in the pretreatment area. An operator activated pump transfers the wastewater from the Collection Tank to Tank 1. During the transfer, poly alum (coagulant) is metered in Tank 1 to aid in precipitation. The pH is adjusted to 8-9 via an on-line pH meter, which controls the addition of sodium hydroxide. The wastewater then gravity flows from Tank 1 to Tank 2, where DTC (a precipitant aid) is added, which brings the pH to 7.5-9. The solution gravity flows from Tank 2 to Tank 3, where coagulant (polymer) is added. Wastewater flows through dual parallel laminar clarifiers to settle solids; the clarifier effluent is discharged through a pre-filter to remove particulates. The wastewater then flows to a 50-gallon settling tank and then to Sample Point #1. Wastewater is pumped from the sample point through a strainer to remove solids prior to a flow meter and finally discharged to the sewer via a bermed floor drain.</p> <p>Sludge at the bottom of the clarifier is discharged to a filter press. The filter cake is hauled off-site for disposal.</p> <p>Pretreatment System #1 Alarms: The Collection Tank and Sample Point #1 are equipped with a high level alarm system, plus Tank #1 has a pH alarm system. When activated, the high level alarm triggers a white flashing beacon and audible alarm, while the pH alarm triggers an amber flashing beacon and audible alarm.</p> <p>Pretreatment System #2 (cyanide): Cyanide</p> |                    |                  |                   |                 |                  |                          | 14,500          |



| Encina Wastewater Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations | Reporting Quarter Status | Flow Rate (GPD) |
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| bearing waste streams (rinse tanks in ENIG, soft gold, and hard gold lines) are transferred to a 55-gallon drum, which is equipped with an electrowinning unit to pretreat the wastewater (recover gold) prior to the cyanide destruct system. The wastewater is then transferred to a 150-gallon cyanide destruct tank → mixer on → increase pH to 10.5 with NaOH → bleach added until ORP reads 310-345 mV → allow to mix for 40-60 minutes → decrease pH to 8.0 with H2SO4 → bleach added until ORP reads 625 mV → allow to mix for 40-60 minutes (destruct is complete) → test for total cyanide using hand-held photometer from spigot → manually open valve beneath cyanide destruct tank → wastewater flows into 30-gallon lift station (Sample Point #1A), which is equipped with a float-activated pump → wastewater pumped overhead to Pretreatment System #1 (metals, pH treatment). Treatment is done manually using pH and ORP readings on the screen. |                    |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                   |                 |                  |                          |                 |
| Ionis Pharmaceuticals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                  | 0                | 0                 | 0               | 0                | C                        |                 |
| 2282 Faraday Avenue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                  | 1                | 0                 | 0               | 0                | C                        |                 |
| Carlsbad, CA, 92008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                  | 0                | 0                 | 0               | 0                | C                        |                 |
| 40 CFR Part 439, Subpart C PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4                  | 0                | 0                 | 0               | 0                | C                        |                 |
| Pretreatment: pH neutralization, hauling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 380                |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                   |                 |                  |                          |                 |
| Javo Beverage Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                  | 0                | 1                 | 2               | 0                | C                        |                 |
| 1311 Specialty Dr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                  | 0                | 2                 | 1               | 1                | NC                       |                 |
| Vista, CA, 92081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Beverage Manufacturing - Local Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 1                | 1                 | 2               | 0                | C                        |                 |
| Pretreatment: 5000 gallon, 3 stage clarifier, automated pH neutralization, aeration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 43,000             |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                   |                 |                  |                          |                 |
| Metal Etch Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                  | 0                | 1                 | 2               | 0                | C                        |                 |
| 1165 Linda Vista Drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                  | 2                | 1                 | 1               | 0                | C                        |                 |
| San Marcos, CA, 92078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 40 CFR Part 433 PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: pH neutralization, hauling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 360                |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                   |                 |                  |                          |                 |
| Natural Alternatives International (Carlsbad)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                  | 0                | 0                 | 0               | 0                | C                        |                 |
| 5928 Farnsworth Court                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Carlsbad, CA, 92008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                  | 0                | 1                 | 1               | 1                | NC                       |                 |
| 40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: settling/clarifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 650                |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                   |                 |                  |                          |                 |
| Natural Alternatives International (Vista)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                  | 0                | 2                 | 0               | 0                | C                        |                 |
| 1215 Park Center Drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                  | 1                | 2                 | 2               | 0                | C                        |                 |
| Vista, CA, 92081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                  | 0                | 2                 | 4               | 1                | NC                       |                 |
| 40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4                  | 0                | 2                 | 3               | 1                | NC                       |                 |
| Pretreatment: SP1: Three-stage clarifier. SP2: None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,187              |                  |                   |                 |                  |                          |                 |

| Encina Wastewater Authority                                                                                                                                                                                                                                                                                                                                                                                                   | Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations | Reporting Quarter Status | Flow Rate (GPD) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------|-----------------|------------------|--------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                   |                 |                  |                          |                 |
| NEOTECH                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 6350 Palomar Oaks Ct. Carlsbad CA, 92011                                                                                                                                                                                                                                                                                                                                                                                      | 2                  | 1                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: Filtration and hauling                                                                                                                                                                                                                                                                                                                                                                                          |                    |                  |                   |                 |                  |                          | 1,900           |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                   |                 |                  |                          |                 |
| Nordic Naturals Manufacturing, Inc.                                                                                                                                                                                                                                                                                                                                                                                           | 1                  | 0                | 1                 | 2               | 1                | NC                       |                 |
| 2390 Oak Ridge Way Vista, CA, 92081<br>40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                        | 2                  | 1                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 0                | 1                 | 1               | 1                | NC                       |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: 3-stage clarifier, aeration, automatic pH adjustment.                                                                                                                                                                                                                                                                                                                                                           |                    |                  |                   |                 |                  |                          | 4,300           |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                   |                 |                  |                          |                 |
| Palomar Laundry                                                                                                                                                                                                                                                                                                                                                                                                               | 1                  | 1                | 0                 | 0               | 0                | C                        |                 |
| 2221 Las Palmas Dr Suite F Carlsbad, CA 92011<br>Laundry - Local Limits                                                                                                                                                                                                                                                                                                                                                       | 2                  | 1                | 0                 | 0               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 2                | 0                 | 0               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 0                | 0                 | 0               | 0                | C                        |                 |
| Pretreatment: Lint screens.                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                  |                   |                 |                  |                          | 46,399          |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                   |                 |                  |                          |                 |
| Premier Nutra Pharma                                                                                                                                                                                                                                                                                                                                                                                                          | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 5800 Newton Drive Carlsbad, CA, 92008<br>40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                      | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 1                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: 3-stage clarifier for solids settling and oil & grease removal                                                                                                                                                                                                                                                                                                                                                  |                    |                  |                   |                 |                  |                          | 6,000           |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                   |                 |                  |                          |                 |
| Primarch Manufacturing, Inc.                                                                                                                                                                                                                                                                                                                                                                                                  | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 1211 Liberty Way Suite A, Vista, CA, 92083<br>40 CFR Part 439, Subpart D PSNS                                                                                                                                                                                                                                                                                                                                                 | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: Two-stage clarifier for solids settling and oil & grease removal                                                                                                                                                                                                                                                                                                                                                |                    |                  |                   |                 |                  |                          | 2,230           |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                   |                 |                  |                          |                 |
| Prudential Overall Supply                                                                                                                                                                                                                                                                                                                                                                                                     | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 2485 Ash Street Vista, CA, 92081<br>Laundry - Local Limits                                                                                                                                                                                                                                                                                                                                                                    | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                  | 0                | 1                 | 1               | 1                | NC                       |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                  | 1                | 1                 | 3               | 1                | NC                       |                 |
| Pretreatment: All process wastewater is collected in a large in-ground sump → pumped through a shaker screen to remove lint → drains to the hydrocyclone where sand and grit are removed → pumped into an equalization tank → Mix Tank 1: addition of muriatic acid (HCl) to lower pH to 9-9.5 for optimum treatment and addition of cationic coagulant and ferric chloride for particle formation→ Mix Tank 2 where complete |                    |                  |                   |                 |                  |                          | 80,000          |

| Encina Wastewater Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations | Reporting Quarter Status | Flow Rate (GPD) |
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| mixing occurs → addition of anionic flocculent to increase floc size → dissolved air addition → DAF unit where sludge blanket forms; sludge is skimmed off → post-treatment monitoring and storage → effluent channel equipped with a second pH probe, 90° V-notch weir, and ultrasonic probe to measure depth (flow) → discharged through Sample Point #1. Sludge is discharged to a sludge tank → rotary vacuum filter system for dewatering → wastewater is sent back to the equalization tank, while filter cake is hauled off-site for disposal. |                    |                  |                   |                 |                  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                   |                 |                  |                          |                 |
| SAFC Carlsbad Inc, DBA Millipore Sigma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                  | 0                | 0                 | 0               | 0                | C                        |                 |
| 2827 Whiptail Loop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Carlsbad, CA, 92010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 40 CFR Part 439, Subpart B PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                  | 1                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: Waste segregation, Hauling, Heat sterilization, pH neutralization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                  |                   |                 |                  |                          | 350             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                   |                 |                  |                          |                 |
| SeaSpine, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 5770 Armada Drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                  | 1                | 1                 | 2               | 0                | C                        |                 |
| Carlsbad, CA, 92008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                  | 0                | 1                 | 1               | 1                | NC                       |                 |
| 40 CFR Part 433 PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                  | 1                | 2                 | 1               | 0                | C                        |                 |
| Pretreatment: hauling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                  |                   |                 |                  |                          | 300             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                   |                 |                  |                          |                 |
| Versum Materials US, LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                  | 1                | 1                 | 1               | 0                | C                        |                 |
| 1969 Palomar Oaks Way                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Carlsbad, CA, 92011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                  | 0                | 1                 | 1               | 0                | C                        |                 |
| 40 CFR Part 433 PSNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                  | 0                | 1                 | 1               | 0                | C                        |                 |
| Pretreatment: pH neutralization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                   |                 |                  |                          | 7,150           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                   |                 |                  |                          |                 |

**Class I, II, III, BMP**

| Reporting Quarters | # of Inspections | Agency Monitoring | Self-Monitoring | Limit Violations |
|--------------------|------------------|-------------------|-----------------|------------------|
| 1                  | 31               | 31                | 37              | 9                |
| 2                  | 24               | 32                | 32              | 3                |
| 3                  | 37               | 29                | 35              | 12               |
| 4                  | 29               | 30                | 37              | 5                |
| Grand Total        | 121              | 122               | 141             | 29               |

| EC#     | Company/Industry                              | File Type | Date       | Notes                                                                                  | Penalty     | NR Costs |
|---------|-----------------------------------------------|-----------|------------|----------------------------------------------------------------------------------------|-------------|----------|
| 24-0003 | HRE Performance Wheels                        | NOV       | 1/2/2024   | Cu MA V1 in 12 months                                                                  | \$0.00      | \$100.00 |
| 24-0005 | Metal Etch Services                           | NOV       | 1/8/2024   | Chromium MA                                                                            | \$0.00      | \$100.00 |
| 24-0009 | NEOTECH                                       | NOV       | 2/13/2024  | added discharges to SP#1 without notification, violation of other permit requirements. | \$500.00    | \$100.00 |
| 24-0018 | Carlsbad Technology, Inc.                     | NOV       | 1/29/2024  | Late CSR V1 in 12 months                                                               | \$100.00    | \$100.00 |
| 24-0019 | Carlsbad Technology, Inc.                     | NOV       | 1/29/2024  | Failure to monitor SPI 2023 Q4                                                         | \$1,000.00  | \$100.00 |
| 24-0020 | Carlsbad Technology, Inc.                     | NOV       | 1/29/2024  | Failure to monitor SP2 2023 Q4                                                         | \$1,000.00  | \$100.00 |
| 24-0021 | Cintas Corporation                            | NOV       | 1/29/2024  | Incomplete report Q3 20023. No 608                                                     | \$0.00      | \$100.00 |
| 24-0022 | Cintas Corporation                            | NOV       | 1/29/2024  | Incomplete report Q4 2023. No 608.                                                     | \$500.00    | \$100.00 |
| 24-0023 | Glanbia Nutritionals                          | NOV       | 1/29/2024  | pH V2 in 12 months FTN V2 in 12 months                                                 | \$750.00    | \$100.00 |
| 24-0024 | Captek Softgel International, Inc.            | NOV       | 1/29/2024  | Final Compliance Penalty                                                               | \$19,350.00 | \$100.00 |
| 24-0025 | Javo Beverage Company                         | NOV       | 1/29/2024  | FTM in Q4 2023                                                                         | \$1,000.00  | \$100.00 |
| 24-0026 | American Meta-Pack Company, Inc               | NOV       | 1/29/2024  | Late Report V2 in 12 months                                                            | \$500.00    | \$100.00 |
| 24-0027 | Premier Nutra Pharma                          | NOV       | 1/29/2024  | Incomplete report V1 in 12 months                                                      | \$0.00      | \$100.00 |
| 24-0028 | Premier Nutra Pharma                          | NOV       | 1/29/2024  | Incomplete Report V2 in 12 months                                                      | \$500.00    | \$100.00 |
| 24-0029 | Primarch Manufacturing, Inc.                  | NOV       | 1/29/2024  | pH V3 in 12 months FTN V5 in 12 months                                                 | \$2,000.00  | \$100.00 |
| 24-0030 | Primarch Manufacturing, Inc.                  | NOV       | 1/29/2024  | pH V4 in 12 months FTN V6 in 12 months                                                 | \$2,000.00  | \$100.00 |
| 24-0031 | Primarch Manufacturing, Inc.                  | NOV       | 1/29/2024  | incomplete report                                                                      | \$100.00    | \$100.00 |
| 24-0032 | Prudential Overall Supply                     | NOV       | 1/29/2024  | Incomplete Report                                                                      | \$0.00      | \$100.00 |
| 24-0033 | Prudential Overall Supply                     | NOV       | 1/29/2024  | Incomplete Report V2 in 12 months                                                      | \$500.00    | \$100.00 |
| 24-0034 | Palomar Laundry                               | NOV       | 2/8/2024   | Late Report                                                                            | \$100.00    | \$100.00 |
| 24-0035 | HRE Performance Wheels                        | NOV       | 1/30/2024  | 2023 Q3 FTM                                                                            | \$1,000.00  | \$100.00 |
| 24-0036 | Cintas Corporation                            | NOV       | 2/1/2024   | BOD V3 in 12 months                                                                    | \$1,000.00  | \$100.00 |
| 24-0037 | Bachem Americas, Inc.                         | NOV       | 2/1/2024   | incomplete report                                                                      | \$0.00      | \$100.00 |
| 24-0041 | Bachem Americas, Inc.                         | NOV       | 2/1/2024   | Incomplete report                                                                      | \$500.00    | \$100.00 |
| 24-0046 | Primarch Manufacturing, Inc.                  | NOV       | 2/8/2024   | Incomplete Report V3 in 12 months                                                      | \$1,000.00  | \$100.00 |
| 24-0047 | Bachem Americas, Inc.                         | NOV       | 2/13/2024  | Chloroform MA V1 in 12 months                                                          | \$0.00      | \$100.00 |
| 24-0055 | Javo Beverage Company                         | NOV       | 3/6/2024   | slug discharge                                                                         | \$0.00      | \$100.00 |
| 24-0060 | Carlsbad Technology, Inc.                     | NOV       | 3/12/2024  | pH/FTN, incomplete report                                                              | \$1,100.00  | \$100.00 |
| 24-0064 | Carlsbad Technology, Inc.                     | NOV       | 3/12/2024  | Incomplete Report                                                                      | \$1,000.00  | \$100.00 |
| 24-0065 | Cintas Corporation                            | NOV       | 3/6/2024   | Late response to NOV                                                                   | \$100.00    | \$100.00 |
| 24-0066 | American Meta-Pack Company, Inc               | NOV       | 3/8/2024   | Late Report (CSR)                                                                      | \$1,000.00  | \$100.00 |
| 24-0067 | Palomar Laundry                               | NOV       | 3/11/2024  | Late Report                                                                            | \$500.00    | \$100.00 |
| 24-0068 | HRE Performance Wheels                        | NOV       | 3/12/2024  | Chromium DM/MA, Copper DM/MA, Zinc MA                                                  | \$500.00    | \$100.00 |
| 24-0082 | Nordic Naturals Manufacturing, Inc.           | NOV       | 4/9/2024   | pH V1                                                                                  | \$0.00      | \$100.00 |
| 24-0085 | Filanc - VWD Failsafe Buena Reach Project     | NOV       | 4/16/2024  | pH                                                                                     | \$100.00    | \$100.00 |
| 24-0091 | Cintas Corporation                            | NOV       | 4/30/2024  | BOD                                                                                    | \$1,000.00  | \$100.00 |
| 24-0097 | Javo Beverage Company                         | NOV       | 5/14/2024  | BOD                                                                                    | \$0.00      | \$100.00 |
| 24-0098 | Fresh Creative Foods                          | NOV       | 5/14/2024  | Oil and Grease                                                                         | \$350.00    | \$100.00 |
| 24-0124 | Nordic Naturals Manufacturing, Inc.           | NOV       | 7/2/2024   | Late Report. Did not install pretreatment by due date                                  | \$100.00    | \$100.00 |
| 24-0130 | American Meta-Pack Company, Inc               | NOV       | 7/19/2024  | Late Report - CSR                                                                      | \$1,000.00  | \$100.00 |
| 24-0132 | Palomar Laundry                               | NOV       | 7/23/2024  | Late Report - Did not submit pretreatment proposal by due date                         | \$1,000.00  | \$100.00 |
| 24-0137 | Glanbia Nutritionals                          | NOV       | 7/30/2024  | Failure to Monitor                                                                     | \$1,000.00  | \$100.00 |
| 24-0138 | Natural Alternatives International (Vista)    | NOV       | 7/30/2024  | Failure to monitor                                                                     | \$1,000.00  | \$100.00 |
| 24-0139 | Natural Alternatives International (Vista)    | NOV       | 7/30/2024  | Failure to monitor                                                                     | \$1,000.00  | \$100.00 |
| 24-0140 | Primarch Manufacturing, Inc.                  | NOV       | 7/30/2024  | Incomplete Report                                                                      | \$1,000.00  | \$100.00 |
| 24-0147 | Jif-Pak Manufacturing LLC                     | NOV       | 8/13/2024  | Oil and grease                                                                         | \$250.00    | \$100.00 |
| 24-0151 | Natural Alternatives International (Carlsbad) | NOV       | 8/15/2024  | pH                                                                                     | \$250.00    | \$100.00 |
| 24-0152 | Natural Alternatives International (Vista)    | NOV       | 8/15/2024  | pH                                                                                     | \$250.00    | \$100.00 |
| 24-0153 | Nordic Naturals Manufacturing, Inc.           | NOV       | 8/20/2024  | Penalty Assessment (44 days)                                                           | \$1,100.00  | \$100.00 |
| 24-0161 | HRE Performance Wheels                        | NOV       | 8/29/2024  | Oil and Grease and FTN                                                                 | \$100.00    | \$100.00 |
| 24-0172 | HRE Performance Wheels                        | NOV       | 9/17/2024  | Oil and Grease                                                                         | \$250.00    | \$100.00 |
| 24-0178 | HRE Performance Wheels                        | NOV       | 9/20/2024  | Oil and Grease                                                                         | \$1,000.00  | \$100.00 |
| 24-0179 | HRE Performance Wheels                        | NOV       | 9/20/2024  | Oil and grease                                                                         | \$1,500.00  | \$100.00 |
| 24-0182 | Fresh Creative Foods                          | NOV       | 10/2/2024  | Oil and grease                                                                         | \$1,000.00  | \$100.00 |
| 24-0183 | SeaSpine, Inc.                                | NOV       | 10/3/2024  | MA Copper                                                                              | \$250.00    | \$100.00 |
| 24-0184 | Prudential Overall Supply                     | NOV       | 10/9/2024  | BOD                                                                                    | \$0.00      | \$100.00 |
| 24-0197 | Prudential Overall Supply                     | NOV       | 10/31/2024 | BOD                                                                                    | \$250.00    | \$100.00 |

|         |                                            |       |            |                         |            |          |
|---------|--------------------------------------------|-------|------------|-------------------------|------------|----------|
| 24-0203 | Fresh Creative Foods                       | NOV   | 11/12/2024 | Oil and grease          | \$1,000.00 | \$100.00 |
| 24-0209 | Fuse Manufacturing                         | NOV   | 11/21/2024 | late report application | \$100.00   | \$100.00 |
| 24-0212 | Fuse Manufacturing                         | Other | 11/21/2024 | Cease and Desist        | \$0.00     | \$0.00   |
| 24-0216 | Fresh Creative Foods                       | NOV   | 12/5/2024  | oil and grease          | \$1,000.00 | \$100.00 |
| 24-0218 | Natural Alternatives International (Vista) | NOV   | 12/11/2024 | MA Acetone              | \$100.00   | \$100.00 |
| 24-0224 | Fresh Creative Foods                       | NOV   | 12/12/2024 | BOD                     | \$0.00     | \$100.00 |
| 24-0230 | Nordic Naturals Manufacturing, Inc.        | NOV   | 12/31/2024 | Failure to cal pH meter | \$500.00   | \$100.00 |

|           |             |            |
|-----------|-------------|------------|
| # of NOVs | 64          |            |
| Subtotal  | \$54,050.00 | \$6,300.00 |
| TOTAL     | \$60,350.00 |            |

# **Appendix C:**

## **NSCIU List**

## **Appendix C.**

### **Encina Wastewater Authority 2024 Pretreatment Annual Report**

#### **Non-Significant Categorical Industrial Users (NSCIUs)**

Gematria Products, Inc.  
2260 Rutherford Rd  
Carlsbad, CA, 92008  
Category - 40 CFR Part 439

Mirada Manufacturing  
2384 La Mirada Dr  
Vista, CA, 92081  
Category - 40 CFR Part 439

Piercan USA, Inc.  
160 Bosstick Blvd.  
San Marcos, CA, 92069  
Category - 40 CFR Part 428

Sabre Sciences, Inc.  
2233 Faraday Ave  
Ste. K, Carlsbad, CA, 92008  
Category - 40 CFR Part 439

Seven Manufacturing  
1420 Decision St  
Suite C, Vista, CA, 92081  
Category - 40 CFR Part 439

The GHT Companies  
2465 Ash Street  
Vista, CA, 92081  
Category - 40 CFR Part 439



# **Appendix D:**

# **Pretreatment Budget**

## ENVIRONMENTAL COMPLIANCE & REGIONAL SOURCE CONTROL

The EWPCF discharges clean water to the Pacific Ocean via the Encina Ocean Outfall pursuant to a National Pollutant Discharge Elimination System (NPDES) Permit issued under the authority of the federal Clean Water Act (CWA). The CWA also covers non-domestic sources of wastewater that discharge directly to a publicly owned treatment works like the EWPCF. Such discharges may be federally regulated or regulated by Encina's Pretreatment Ordinance, which are enforced by Encina in cooperation with the host Member Agency under authority derived from the federal CWA. The goal of Encina's Regional Source Control Program is to prevent the discharge of pollutants into the Member Agency sewer system, which may interfere with the operation of the EWPCF or pass through the system and negatively impact the ocean environment, the quality of PureGreen fertilizer or the ability to reclaim water. The Source Control Program achieves this goal by: identifying regulated industries; conducting facility inspections; issuing wastewater discharge permits; sampling industrial discharges to determine compliance; taking enforcement in response to noncompliance; responding to Member Agency requests to perform investigations regarding non-routine discharges; and, conducting related public outreach activities.

**Capacity** – During FY 2024-25 staff estimates fifty-seven (57) industries will be fully permitted, while another 572 businesses will participate in EWA's Best Management Practices Program.

**Cost Allocation** – Personnel Expenses make up over 68% of Source Control's budgeted expenses. Over 82% of personnel expenses are allocated to Member Agencies based on the actual level of effort by staff. Remaining personnel expenses and all non-personnel expenses are allocated to the Member Agencies on the basis of Encina Ocean Outfall flows.



Public outreach at the 2023 Alta Vista Fun Festival at the Alta Vista Botanical Gardens.

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Employee Version

# OPERATING EXPENSE SUMMARY: SOURCE CONTROL

## PERSONNEL

|                                 |          | Actual<br>FY 2022-23 | Budget<br>FY 2023-24 | Projected<br>FY 2023-24 | Proposed<br>FY 2024-25 | %<br>Change <sup>1</sup> |
|---------------------------------|----------|----------------------|----------------------|-------------------------|------------------------|--------------------------|
| 5100                            | Salaries | \$ 452,331           | \$ 491,137           | \$ 506,402              | \$ 570,589             | 16.2%                    |
| 5200                            | Benefits | \$ 153,598           | \$ 192,521           | \$ 174,061              | \$ 223,177             | 15.9%                    |
| <b>Total Personnel Expenses</b> |          | <b>\$ 605,929</b>    | <b>\$ 683,658</b>    | <b>\$ 680,462</b>       | <b>\$ 793,766</b>      | <b>16.1%</b>             |

## NON-PERSONNEL

|                                     |                               | Actual<br>FY 2022-23 | Budget<br>FY 2023-24 | Projected<br>FY 2023-24 | Proposed<br>FY 2024-25 | %<br>Change <sup>1</sup> |
|-------------------------------------|-------------------------------|----------------------|----------------------|-------------------------|------------------------|--------------------------|
| 40001                               | 5520 Books                    | \$ -                 | \$ -                 | \$ -                    | \$ -                   | 0.0%                     |
| 40001                               | 5930 Equipment Replacement    | \$ 324               | \$ 6,000             | \$ 6,081                | \$ 1,000               | -83.3%                   |
| 40001                               | 6120 Fuel & Lube              | \$ 3,062             | \$ 3,200             | \$ 2,065                | \$ 2,900               | -9.4%                    |
| 40001                               | 6310 Lab Equipment Repair     | \$ 5,303             | \$ 11,000            | \$ 16,856               | \$ 7,000               | -36.4%                   |
| 40001                               | 6330 Lab Supplies             | \$ 1,077             | \$ 1,600             | \$ -                    | \$ 1,600               | 0.0%                     |
| 40001                               | 6410 Laundry & Uniforms       | \$ 1,535             | \$ 2,000             | \$ 1,830                | \$ 2,000               | 0.0%                     |
| 40001                               | 6422 Legal Notices            | \$ 426               | \$ 750               | \$ -                    | \$ 750                 | 0.0%                     |
| 40001                               | 6430 Memberships              | \$ -                 | \$ -                 | \$ -                    | \$ 2,482               | 0.0%                     |
| 40001                               | 6450 Professional Services    | \$ -                 | \$ 75,000            | \$ -                    | \$ 15,000              | -80.0%                   |
| 40001                               | 7120 Printing & Reproduction  | \$ -                 | \$ -                 | \$ -                    | \$ -                   | 0.0%                     |
| 40001                               | 7130 Public Information       | \$ 1,907             | \$ 2,000             | \$ 3,725                | \$ 2,000               | 0.0%                     |
| 40001                               | 7610 Professional Development | \$ -                 | \$ -                 | \$ -                    | \$ 8,400               | 0.0%                     |
| <b>Total Non-Personnel Expenses</b> |                               | <b>\$ 13,634</b>     | <b>\$ 101,550</b>    | <b>\$ 30,557</b>        | <b>\$ 43,132</b>       | <b>-57.5%</b>            |

## INTERNAL SERVICE FUNDS

|                                             |                   | Actual<br>FY 2022-23 | Budget<br>FY 2023-24 | Projected<br>FY 2023-24 | Proposed<br>FY 2024-25 | %<br>Change <sup>1</sup> |
|---------------------------------------------|-------------------|----------------------|----------------------|-------------------------|------------------------|--------------------------|
| 11001                                       | Administration    | \$ 162,946           | \$ 179,561           | \$ 195,713              | \$ 228,783             | 27.4%                    |
| 12001                                       | Laboratory        | \$ 77,909            | \$ 52,057            | \$ 40,816               | \$ 89,606              | 72.1%                    |
| 13001                                       | Energy Management | \$ 2,834             | \$ 2,801             | \$ 2,478                | \$ 2,698               | -3.7%                    |
| <b>Total Internal Service Fund Expenses</b> |                   | <b>\$ 243,689</b>    | <b>\$ 234,419</b>    | <b>\$ 239,007</b>       | <b>\$ 321,087</b>      | <b>37.0%</b>             |
| <b>Total Operating Expenses</b>             |                   | <b>\$ 863,252</b>    | <b>\$ 1,019,627</b>  | <b>\$ 950,026</b>       | <b>\$ 1,157,985</b>    | <b>13.6%</b>             |

1. Represents the percentage change from the FY 2023-24 Budget to the FY 2024-25 Proposed Budget.

## 40001 SOURCE CONTROL

\$43,132

|                                                                  |                 |
|------------------------------------------------------------------|-----------------|
| <b>5930 EQUIPMENT REPLACEMENT</b>                                | <b>\$1,000</b>  |
| Flow composite sampler                                           | -               |
| pH Probe Replacements (2-3)                                      | 1,000           |
| <b>6120 FUEL &amp; LUBRICANTS</b>                                | <b>\$2,900</b>  |
| Unleaded Fuel                                                    | 2,900           |
| 580 gal @ \$5.00 per gal                                         |                 |
| <b>6310 LAB EQUIPMENT REPAIR</b>                                 | <b>\$7,000</b>  |
| Annual Service Agreement - Aquatic Informatics Database          | -               |
| Deionized Water Services & System Rental                         | 3,000           |
| Sampler Repair                                                   | 4,000           |
| <b>6330 LAB SUPPLIES</b>                                         | <b>\$1,600</b>  |
| Gloves, pH Buffers, Sample Bottles and Other Consumables         | 1,600           |
| <b>6410 LAUNDRY &amp; UNIFORMS</b>                               | <b>\$2,000</b>  |
| Laundry and Uniform Rental Fees                                  | 1,000           |
| Contract fees with Aramark & jacket purchases                    |                 |
| Towels and Mats - Cleaning and Rental Fees                       | 1,000           |
| Contract fees with Aramark                                       |                 |
| <b>6422 LEGAL NOTICES</b>                                        | <b>\$750</b>    |
| Permit Required Notices                                          | 750             |
| One legal notice required for SNC notification                   |                 |
| <b>6430 MEMBERSHIPS</b>                                          | <b>\$2,482</b>  |
| American Society of Safety Professionals                         | 220             |
| California Water Environment Association (CWEA)                  | 884             |
| \$221 per year                                                   |                 |
| 4 Source Control staff                                           |                 |
| CWEA Environmental Compliance Inspector Certification and Exam   | 1,058           |
| Renewal for 4 employees \$858                                    |                 |
| Reimbursement (1) \$200                                          |                 |
| Pacific Safety Center                                            | 320             |
| Membership Level: > 100 employees                                |                 |
| Safety Training & Consulting                                     |                 |
| <b>6450 PROFESSIONAL SERVICES</b>                                | <b>\$15,000</b> |
| General Support                                                  | 15,000          |
| <b>7130 PUBLIC INFORMATION</b>                                   | <b>\$2,000</b>  |
| Public Education Information/Handouts for Public Outreach Events | 2,000           |

40001 SOURCE CONTROL

|                                                                          |                |
|--------------------------------------------------------------------------|----------------|
| <b>7610 PROFESSIONAL DEVELOPMENT</b>                                     | <b>\$8,400</b> |
| CWEA Pretreatment, Pollution Prevention, And Stormwater (P3S) Conference | 5,000          |
| 2 Staff EC at \$2,500                                                    |                |
| CWEA Training and Events                                                 | 300            |
| Industrial Stormwater Training (Sac State)                               | 800            |
| 1 EC Staff                                                               |                |
| Source Control Certification Training                                    | 1,500          |
| Western State Projects Inspector Training                                | 800            |
| 4 EC Staff                                                               |                |

# **Appendix E:**

# **SNC Publication**

**The San Diego Union-Tribune**

7676 Hazard Center Drive # 1025  
San Diego, California 92108  
(866) 411-4140  
legals@sduniontribune.com/small>

Robert Grigg  
6200 Avenida Encinas  
Carlsbad, CA 92011

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Account Number:                 | 5272431                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ad Order Number:                | 0011719978                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Customer's Reference/PO Number: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Publication:                    | San Diego Union-Tribune (Daily)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Publication Dates:              | 02/14/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Total Amount:                   | \$362.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Payment Amount:                 | \$0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Amount Due:                     | \$362.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Notice ID:                      | Wsk6dN0LdPI8SDIh1q3E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Invoice Text:                   | <p>PUBLIC NOTICE INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE WITH SEWER DISCHARGE REQUIREMENTS For the period from January 1, 2024 through December 31, 2024, the following INDUSTRIAL USERS, located in the Encina Wastewater Authority service area, were found to be in Significant Non-Compliance for exceeding applicable discharge limits or failing to meet reporting requirements, based on statistical criteria established by EPA and set forth at 40 CFR Part 403.8(f)(2)(viii). For further information please contact Alicia Appel, Encina Wastewater Authority Director of Environmental Compliance at (442) 320-7018. Industry Address Pollutant/Other Bachem Americas, Inc. 1271 Avenida Chelsea, Vista, CA, 92081 Ammonia, nitrogenHRE Performance Wheels 2611 Commerce Way, #D, Vista, CA, 92081 Copper, Oil &amp; Grease</p> |



San Diego Union-Tribune (Daily)  
7676 Hazard Center Drive # 1025  
San Diego, California 92108  
(866) 411-4140

Robert Grigg  
6200 Avenida Encinas  
Carlsbad, CA 92011

**FILE NO. 0011719978**

**PROOF OF PUBLICATION**

STATE OF CALIFORNIA  
County of San Diego

The Undersigned, declares under penalty of perjury under the laws of the State of California: That he/she is the resident of the County of San Diego. That he/she is and at all times herein mentioned was a citizen of the United States, over the age of twenty-one years, and that he/she is not a party to, nor interested in the above-entitled matter; that he/she is chief clerk for the publisher of

**San Diego Union-Tribune (Daily)**

a newspaper of general circulation, printed and published Daily in the City of San Diego, County of San Diego, and which newspaper is published for the dissemination of local news and intelligence of a general character, and which newspaper at all the times herein mentioned had and still has a bona fide subscription list of paying subscribers, and which newspaper has been established, printed and published at regular intervals in the said City of San Diego, County of San Diego, for a period exceeding one year next preceding the date of publication of the notice hereinafter referred to, and which newspaper is not devoted to nor published for the interests, entertainment or instruction of a particular class, profession, trade, calling, race, or denomination, or any number of same; that the notice of which the annexed is a printed copy, has been published in said newspaper in accordance with the instruction of the person(s) requesting publication, and not in any supplement thereof on the following dates, to-wit:

**02/14/2025**

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed at San Diego, California,  
this 14th day of February, 2025.



Signature

**PUBLIC NOTICE**

**INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE  
WITH SEWER DISCHARGE REQUIREMENTS**

For the period from January 1, 2024 through December 31, 2024, the following INDUSTRIAL USERS, located in the Encina Wastewater Authority service area, were found to be in Significant Non-Compliance for exceeding applicable discharge limits or failing to meet reporting requirements, based on statistical criteria established by EPA and set forth at 40 CFR Part 403.8(f) (2) (viii). For further information please contact Alicia Appel, Encina Wastewater Authority Director of Environmental Compliance at (442) 320-7018.

| Industry               | Address                                 | Pollutant/Other      |
|------------------------|-----------------------------------------|----------------------|
| Bachem Americas, Inc.  | 1271 Avenida Chelsea, Vista, CA, 92081  | Ammonia, nitrogen    |
| HRE Performance Wheels | 2611 Commerce Way, #D, Vista, CA, 92081 | Copper, Oil & Grease |

**San Diego Union-Tribune**  
**Published: 2/14/25**