ENCINA WASTEWATER AUTHORITY

A Public Agency

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

February 27, 2026

Via CIWQS

Ref: EC 26-0016

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

Attention: Fisayo Osibodu

SUBJECT: Submittal of 2025 Annual Pretreatment Program Report Period January 1, 2025 through December 31, 2025

Dear Fisayo,

Enclosed please find a copy of the Encina Wastewater Authority Annual Pretreatment Program Report for 2025. This report is submitted as required by NPDES Permit Number CA0107395.

Please contact Alicia Appel, Director of Environmental Compliance, at 442-320-7018 if you have any questions.

Sincerely,

Scott McClelland
General Manager

Attachment

cc: R9Pretreatment@epa.gov, EPA Region IX
Erica Kalve, State Water Resources Control Board
Gary Erbeck, San Diego County Department of Environmental Health
Joann Lim, San Diego Regional Water Quality Control Board

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ENCINA WASTEWATER AUTHORITY

2025 ANNUAL PRETREATMENT PROGRAM REPORT

NPDES PERMIT HOLDER AND SEWER AUTHORITY NAME:	Encina Wastewater Authority
REPORT DATE:	February 27, 2026
PERIOD COVERED BY THIS REPORT:	January 1 – December 31, 2025
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: 442-320-7018

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: 2/17/2026

Encina Wastewater Authority
Annual Pretreatment Program Report

Table of Contents

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 380,000 and covers a 125 square mile area. This area is predominantly characterized by residential development. At the end of 2025, the combined flow to the EWPCF and MWRF was approximately 26.55 million gallons per day (MGD) and the total combined industrial flow to both plants was approximately 0.73 MGD, representing only 2.74% 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 2025, 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 2025 demonstrated compliance with regulatory standards.

During 2025, Encina had 59 permitted Industrial Users (IUs): 17 Class I Categorical Industrial Users (CIUs), six Class II Non-Categorical Significant Industrial Users (SIUs) and 36 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 52 Annual Inspections at Class I, II, and III Facilities.

Encina and the industrial users perform regular monitoring and met the federal requirements during the 2025 calendar year. Representative grab and composite samples are used to determine compliance. A total of 275 monitoring events were performed during the 2025 calendar year. Encina staff conducted 131 monitoring events, including 109 from CIU/SIU industries. Industrial Users performed 144 monitoring events including 120 from CIU/SIU industries.

Encina maintains a proactive enforcement stance. During 2025, 62 Notices of Violation (NOVs) were issued and $97,250 in fines and $6,100 in enforcement costs were assessed. Nine of the 23 CIU/SIUs active in the service area during the year were found to be in Significant Non-Compliance (SNC). All industries in SNC have been notified and are implementing corrective actions and working to demonstrate compliance.

Local Limit for the EWPCF and 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 EWPCF and Ocean Outfall 2025 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 E.

Industrial Users

Appendix A contains a list of all active 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

- Palomar Laundry (PL) is located at 2221 Las Palmas Dr. Carlsbad, California. PL is a commercial laundry that discharges 46,000 gallons per day (gpd) of industrial wastewater. PL is regulated as a Class II Significant Industrial User since they discharge more than 25,000 gpd of Industrial Wastewater. PL is required to self-monitor quarterly 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 February 7, 2025 and expires March 1, 2029.

Changes of Status

- Metal Etch Services (ME) facility is located at 1165 Linda Vista Drive, in San Marcos. ME manufactures stainless-steel stencils, nickel stencils, and emulsion screens. Previously, ME was regulated as a Class I CIU that performed acid etching of steel and nickel. ME discontinued the core operation of acid etching. Therefore, on September 30, 2025, ME's Class I permit was rescinded.

Deletions

- American Meta-Pack Company, Inc. - A closure inspection was performed at the American Meta-Pack Company, Inc Zero Discharge Class III facility located at 1185 Park Center Drive, Suite C, Vista on 11/4/2025. The industry performed metal finishing on premanufactured parts for the semiconductor industry, biomedical industry, and various other sectors. An external inspection confirmed no signs of industrial activity at the subject facility and the permit has been rescinded due to historical non-compliance and non-response. The permit was rescinded on 11/4/2025.

- Ortho Organizers – A closure inspection was performed at the Ortho Organizers Zero Discharge Class III facility located at 1822 Aston Ave, Carlsbad on 9/12/2025. The industry performed injection molding for the orthodontics industry. The inspection confirmed that the building was empty, there were no signs of manufacturing, final manifests were reviewed, and the remaining waste was hauled off site appropriately. The permit was rescinded on 9/12/2025.
- Vista Industrial Products – A closure inspection was performed at the Vista Industrial Products Zero Discharge Class III facility located at 3210 Executive Ridge, Vista on 8/12/2025. The industry performed metal finishing processes in the manufacture of metal chassis and cabinets for electronic and medical uses, and weldments. Encina received correspondence from legal representation of the company that the business filed for bankruptcy. The inspection confirmed there were no signs of activity and the permit was rescinded on 9/2/2025.

Appendix B contains a list of industries that Encina has designated as 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 2025:

Fuse Manufacturing submitted analytical lab data for a BMR on 2/27/2025 to discharge federally regulated wastewater from dietary supplement manufacturing. The facility is subject to 40 CFR 439 Subpart D – Mixing/Compounding and Formulation. Oil and Grease exceeded local limits. The BMR cover sheet was not submitted after several requests and discharge was not authorized. A Class III Zero Discharge Permit was issued.

Pacific Lasertec, LLC submitted a BMR on 8/17/2025 to discharge federally regulated wastewater from the metal finishing operations of acid dipping and associated processes of cleaning. The facility is subject to 40 CFR 433 and regulated as a NSCIU as they discharge less than 100 gallons per day. The BMR demonstrated compliance with all applicable federal and local limits.

Industrial Strength Corp. submitted a BMR on 9/23/2025 to discharge federally regulated wastewater from the associated metal finishing operation from quenching, tumbling, and cleaning. The facility is subject to 40 CFR 433 and regulated as a NSCIU as they discharge less than 100 gallons per day. The BMR demonstrated compliance with all applicable federal and local 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 2025, 62 NOVs were issued and $97,250 in fines and $6,100 in enforcement costs were assessed.

SIUs in Significant Non-Compliance
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 D is a copy of the SNC publication for the period of January 1 to December 31, 2025.

In Calendar year 2025, nine of the 23 CIU/SIUs active in the service area during the year were found to be in SNC. Only one of the nine industries were in SNC for a discharge limit violation (Monthly Average). The other eight industries were in SNC for non-discharge violations and were issued NOVs to compel compliance. Escalating enforcement will continue until compliance is attained. See Appendix D for the list of industries in SNC.

Metal Etch Services:
Metal Etch Services located in Vallecitos Water District was in SNC in the fourth evaluation period due to a single violation of the monthly average for Chromium (1/1 100%). Metal Etch Services was issued a NOV and shortly after decided to cease all metal finishing processes. The facility no longer performs federally regulated operations or generates federally regulated wastewater. See above for Changes of Status for details.

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 517 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 2025 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 permit generation, Geographic Information system (GIS) Integration, Compliance Status Report Template construction, and the development of a proof-of-concept web portal.

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 2025, the City of Oceanside discharged an average of 0.71 MGD to the City of Vista collection system. The wastewater is then conveyed to the EWPCF 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 2025.

Summary of Annual Source Control Program Budget
The FY 2025-2026 budget for the Pretreatment Program is $1,390,729. A line-item detail of the budget is attached for reference in Appendix C. The FY 2024-2025 budget for the Source Control Program was $1,157,985.

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 treatment and distribution. In 2025, Encina continued multiple plant enhancement and rehabilitation projects. Tours of the EWPCF are held throughout the year, as requested.

Encina staff participate in community outreach activities, typically limited to the Encina Service Area. In 2025, Encina purchased new public outreach gifts to promote sustainability and environmental awareness while representing Encina at member agency events. Encina Source Control staff utilizes a wastewater treatment plant demonstration model, hands out information flyers, and answers questions at community events.

During 2025, Encina participated in several well attended events that engaged a diverse range of community members, students, and local residents. While specific attendance totals were not recorded, staff observed strong participation and consistent engagement at each event. The 2025 events included: The UCSD Environmental Science Student Presentation, January 16, 2025; Alta Vista Botanical Gardens Earth Day Festival, April 19, 2025; Citizens Academy on September 18, 2025; The San Elijo Career Day, October 22, 2025.

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.

Biosolids Disposal Methods

In 2025, Encina produced approximately 6,340 Dry Metric Tons (DMT) of Class A and Class B biosolids. See the table below for the breakdown of the material handled by Encina's biosolids hauling contractor, Ecology. 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. When beneficial reuse options are not available, Encina does send some material to the landfill.

Class A	3,997	DMT
Class B	1,711	DMT
Landfill	166	DMT
Fertilizer	4667	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:
SIU List

Appendix A
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	1	1	1	0	C	30,000
760 Shadowridge Drive	2	0	1	1	0	C	
Vista, CA, 92083	3	0	1	1	0	C	
Laundry - Local Limits	4	0	1	1	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.							
Bachem Americas, Inc.	1	0	1	2	0	C	1,450
1271 Avenida Chelsea	2	0	1	1	0	C	
Vista, CA, 92081	3	0	1	1	0	C	
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.							
Captek Softgel International, Inc.	1	0	1	1	0	C	30,000
2710 Progress Street	2	0	1	1	0	C	
Vista, CA, 92081	3	1	1	1	0	C	
40 CFR Part 439, Subpart D PSNS	4	0	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 pumps in the final chamber to pump wastewater East pad pretreatment system.							
Carlsbad Technology, Inc.	1	1	2	2	0	C	865
5923 Balfour Court	2	0	2	2	1	NC	
Carlsbad, CA, 92008	3	0	2	3	0	C	
40 CFR Part 439, Subpart D PSNS	4	0	2	2	1	NC	
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.							
Cintas Corporation	1	0	1	2	1	NC	75,000
460 West California Avenue	2	0	1	1	0	C	
Vista, CA, 92084	3	1	2	1	1	NC	
	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)
Laundry - Local Limits							
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.							
Glanbia Nutritionals	1	0	2	1	1	NC	750
2840 Loker Ave East	2	0	1	1	0	C	
#101, Carlsbad, CA, 92010	3	0	2	1	2	NC	
40 CFR Part 439, Subpart D PSNS	4	1	1	0	0	C	
Pretreatment: pH adjustment (Caustic or acid), two-stage clarifier, and hauling							
Hollandia Dairy	1	0	1	1	0	C	55,000
622 East Mission Road	2	1	1	1	0	C	
San Marcos, CA, 92069	3	0	1	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.							
HRE Performance Wheels	1	0	1	0	0	C	250
2611 Commerce Way	2	0	0	0	0	C	
#D, Vista, CA, 92081	3	0	2	1	0	C	
40 CFR Part 433 PSNS	4	1	1	1	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 captured into a 275-gallon tote, then treated with a flocculant to reduce O&G. After proper mixing and settling, the wastewater is pH checked and neutralized if needed then batch discharged weekly into Sample Point #1. 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							

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
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.							
Hughes Circuits, Inc.	1	0	1	2	0	C	14,500
540 South Pacific Street	2	0	2	3	0	C	
San Marcos, CA, 92078	3	1	1	3	0	C	
40 CFR Part 433 PSNS	4	0	2	2	0	C	
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. 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. 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. 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. Sludge at the bottom of the clarifier is discharged to a filter press. The filter cake is hauled off-site for disposal. 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. Pretreatment System #2 (cyanide): Cyanide 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							

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
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	380
2282 Faraday Avenue	2	0	0	0	0	C	
Carlsbad, CA, 92008	3	1	0	0	0	C	
40 CFR Part 439, Subpart C PSNS	4	0	0	0	0	C	
Pretreatment: pH neutralization, hauling.							
Javo Beverage Company	1	0	1	1	0	C	43,000
1311 Specialty Dr.	2	0	1	1	0	C	
Vista, CA, 92081	3	0	2	1	2	NC	
Beverage Manufacturing - Local Limits	4	1	2	1	0	C	
Pretreatment: 5000 gallon, 3 stage clarifier, automated pH neutralization, aeration.							
Natural Alternatives International (Carlsbad)	1	0	1	2	1	NC	650
5928 Farnsworth Court	2	0	1	1	1	NC	
Carlsbad, CA, 92008	3	0	3	1	1	NC	
40 CFR Part 439, Subpart D PSNS	4	1	1	1	0	C	
Pretreatment: settling/clarifier							
Natural Alternatives International (Vista)	1	0	2	2	0	C	1,187
1215 Park Center Drive	2	1	2	2	0	C	
Vista, CA, 92081	3	1	2	2	0	C	
40 CFR Part 439, Subpart D PSNS	4	0	2	2	0	C	
Pretreatment: SP1: Three-stage clarifier. SP2: None							
NEOTECH	1	1	1	1	0	C	1,900
6350 Palomar Oaks Ct. Carlsbad	2	0	1	0	0	C	
CA, 92011	3	0	1	1	0	C	
	4	0	1	2	0	C	
Pretreatment: Filtration and hauling							
Nordic Naturals Manufacturing, Inc.	1	0	1	1	0	C	4,300

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
2390 Oak Ridge Way Vista, CA, 92081 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: 3-stage clarifier, aeration, automatic pH adjustment.							
Palomar Laundry	1	1	1	1	0	C	46,399
2221 Las Palmas Dr Suite F Carlsbad, CA 92011 Laundry - Local Limits	2	0	1	1	0	C	
	3	0	1	2	0	C	
	4	0	1	1	0	C	
Pretreatment: Lint screens.							
Premier Nutra Pharma	1	1	1	1	0	C	6,000
5800 Newton Drive Carlsbad, CA, 92008 40 CFR Part 439, Subpart D PSNS	2	1	1	1	0	C	
	3	0	1	1	0	C	
	4	0	1	1	1	NC	
Pretreatment: 3-stage clarifier for solids settling and oil & grease removal							
Primarch Manufacturing, Inc.	1	0	1	1	0	C	2,230
1211 Liberty Way Suite A, Vista, CA, 92083 40 CFR Part 439, Subpart D PSNS	2	1	1	1	0	C	
	3	0	1	1	0	C	
	4	0	2	1	1	NC	
Pretreatment: Two-stage clarifier for solids settling and oil & grease removal							
Prudential Overall Supply	1	0	1	1	0	C	80,000
2485 Ash Street Vista, CA, 92081 Laundry - Local Limits	2	0	1	1	2	NC	
	3	0	1	1	0	C	
	4	1	2	1	0	C	
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 cationic coagulant and ferric chloride for particle formation→ Mix Tank 2 where complete 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.							

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
SAFC Carlsbad Inc, DBA Millipore Sigma	1	0	2	2	0	C	350
2827 Whiptail Loop	2	0	2	2	1	NC	
Carlsbad, CA, 92010	3	0	2	4	1	NC	
40 CFR Part 439, Subpart B PSNS	4	1	2	5	2	NC	
Pretreatment: Waste segregation, Hauling, Heat sterilization, pH neutralization.							
SeaSpine, Inc.	1	0	1	3	0	C	300
5770 Armada Drive	2	1	1	3	0	C	
Carlsbad, CA, 92008	3	0	1	3	0	C	
40 CFR Part 433 PSNS	4	1	1	4	0	C	
Pretreatment: None.							
Versum Materials US, LLC	1	1	1	1	0	C	7,150
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							

Appendix A

Class I, II, III, BMP

Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations
1	31	32	35	3
2	32	30	31	5
3	35	35	41	13
4	31	34	37	6
Grand Total	129	131	144	27

Appendix A

EC#	Company/Industry	File Type	Date	Notes	Penalty	Non-routine enforcement Costs
25-0003	Fuse Manufacturing	NOV	1/16/2025	Violation of Cease and Desist	$1,000.00	$100.00
25-0005	American Meta-Pack Company, Inc	NOV	1/16/2025	Late CSR V3 in 12 months	$1,000.00	$100.00
25-0006	Captek Softgel International, Inc.	NOV	1/16/2025	Late CSR V1 in 12 months	$100.00	$100.00
25-0007	Primarch Manufacturing, Inc.	NOV	1/16/2025	Late CSR V1 in 12 months	$100.00	$100.00
25-0008	Sabre Sciences, Inc.	NOV	1/16/2025	Late CSR V1 in 12 months	$100.00	$100.00
25-0015	Nordic Naturals Manufacturing, Inc.	NOV	1/30/2025	OG V1 in 12 months. FTN V1 in 12 months	$100.00	$100.00
25-0016	Javo Beverage Company	NOV	1/30/2025	Incomplete report V1 in 12 months	$0.00	$100.00
25-0017	Bachem Americas, Inc.	NOV	1/30/2025	Ammonia MA V1 in 12 months	$100.00	$100.00
25-0023	Applied Membranes Inc.	NOV	2/10/2025	Late report (application)	$100.00	$100.00
25-0024	Glanbia Nutritionals	NOV	2/10/2025	pH V1 in 12 months	$0.00	$100.00
25-0025	Natural Alternatives International (Carlsbad)	NOV	2/11/2025	Acetone MA V1 in 12 months	$0.00	$100.00
25-0030	American Meta-Pack Company, Inc	NOV	2/19/2025	Late report (CSR)	$1,000.00	$100.00
25-0031	Captek Softgel International, Inc.	NOV	2/19/2025	Complete failure to monitor 2024 Q3	$1,000.00	$100.00
25-0032	Captek Softgel International, Inc.	NOV	2/19/2025	Complete failure to monitor 2024 Q4	$1,000.00	$100.00
25-0037	Fuse Manufacturing	NOV	2/27/2025	Discharging federally regulated wastewater without a permit between 11/1/2022 - 11/20/2024. Excludes weekends and holidays. 516 days.	$72,050.00	$0.00
25-0038	Javo Beverage Company	NOV	2/26/2025	Slug discharge with proper reporting	$0.00	$100.00
25-0045	Bachem Americas, Inc.	NOV	3/5/2025	Late report (NOV response) V1 in 12 months	$100.00	$100.00
25-0046	Cintas Corporation	NOV	3/5/2025	Daily max (BOD) V2 in 12 months	$250.00	$100.00
25-0055	American Meta-Pack Company, Inc	NOV	3/25/2025	Failure to comply with permit conditions or ordinance requirements	$1,000.00	$100.00
25-0070	Javo Beverage Company	NOV	5/1/2025	Failure to maintain pretreatment system V1 in 12 months	$0.00	$100.00
25-0076	Captek Softgel International, Inc.	NOV	5/12/2025	Late report (discharge permit application) V2 in 12 months	$500.00	$100.00
25-0089	Natural Alternatives International (Carlsbad)	NOV	6/10/2025	Daily max (pH) V2 in 12 months	$250.00	$100.00
25-0107	Vista Industrial Products. Inc.	NOV	7/23/2025	Late report (2025 Jul CSR) V1 in 12 months.	$100.00	$100.00
25-0108	NEOTECH	NOV	7/23/2025	Late report (2025 Jul CSR) V1 in 12 months	$100.00	$100.00
25-0109	Javo Beverage Company	NOV	7/23/2025	Daily max (BOD) V1 in 12 months	$0.00	$100.00
25-0114	American Meta-Pack Company, Inc	NOV	7/23/2025	Late report (2025 Jul CSR) V4 in 12 months	$1,000.00	$100.00
25-0115	Natural Alternatives International (Carlsbad)	NOV	7/24/2025	Daily max (pH) V2 in 12 months	$250.00	$100.00
25-0116	SeaSpine, Inc.	NOV	8/5/2025	Failure to report additional monitoring x2	$1,000.00	$100.00
25-0117	SeaSpine, Inc.	NOV	8/5/2025	Discharge without approval	$1,000.00	$100.00
25-0119	Nordic Naturals Manufacturing, Inc.	NOV	8/5/2025	Failure to maintain pretreatment system x4	$1,250.00	$100.00
25-0120	Glanbia Nutritionals	NOV	8/5/2025	Incomplete report (missing parameters 2025 Q1) V1 in 12 months	$0.00	$100.00
25-0121	Carlsbad Technology, Inc.	NOV	8/5/2025	Monthly Average (Acetone) V1 in 12 months; FTN V1 in 12 months	$100.00	$100.00
25-0122	SAFC Carlsbad Inc, DBA Millipore Sigma	NOV	8/5/2025	Late report (2025 Jul CSR) V1 in 12 months	$100.00	$100.00
25-0123	SAFC Carlsbad Inc, DBA Millipore Sigma	NOV	8/5/2025	Monthly Average (Acetone) V1 in 12 months; FTN V1 in 12 months	$100.00	$100.00
25-0124	Prudential Overall Supply	NOV	8/5/2025	Daily max (Oil and grease) V1 in 12 months; FTN V1 in 12 months	$100.00	$100.00
25-0125	Metal Etch Services	NOV	8/5/2025	Failure to monitor 2025 Q2	$1,000.00	$100.00
25-0126	Dr. Bronner's	NOV	8/5/2025	Failure to monitor 2025 Q2	$1,000.00	$100.00
25-0127	NEOTECH	NOV	8/5/2025	Failure to monitor 2025 Q2	$1,000.00	$100.00
25-0135	Prudential Overall Supply	NOV	8/7/2025	Daily max (TSS) V1 in 12 months	$0.00	$100.00
25-0136	Glanbia Nutritionals	NOV	8/7/2025	Daily max (pH) V2 in 12 months	$250.00	$100.00
25-0137	Cintas Corporation	NOV	8/7/2025	Daily max (TSS) V1 in 12 months	$0.00	$100.00
25-0138	Fresh Creative Foods	NOV	8/12/2025	Daily max (Oil and grease) V4 in 12 months	$1,000.00	$100.00
25-0142	Metal Etch Services	NOV	8/21/2025	Monthly average (Chromium) V1 in 12 months	$0.00	$100.00
25-0146	American Meta-Pack Company, Inc	NOV	8/28/2025	Failure to comply with permit conditions and/or ordinance requirements	$1,000.00	$100.00
25-0150	Fresh Creative Foods	NOV	9/2/2025	Daily max (Oil and grease) V5 in 12 months	$1,000.00	$100.00
25-0152	Fresh Creative Foods	NOV	9/2/2025	Daily max (BOD) V2 in 12 months	$250.00	$100.00
25-0156	Fresh Creative Foods	NOV	9/9/2025	Daily max (Oil and grease) V6 in 12 months	$1,000.00	$100.00

25-0157	Javo Beverage Company	NOV	9/10/2025	Failure to maintain pretreatment system V3 in 12 months.	$500.00	$100.00
25-0163	By The Slice/Socal CML	NOV	9/16/2025	Failure to comply with Pretreatment Ordinance (Discharge Permit Application Submittal)	$100.00	$100.00
25-0164	Javo Beverage Company	NOV	9/18/2025	Daily max (BOD) V2 in 12 months	$250.00	$100.00
25-0170	SAFC Carlsbad Inc, DBA Millipore Sigma	NOV	9/25/2025	Monthly Average (Acetone) V2 in 12 months	$250.00	$100.00
25-0191	SAFC Carlsbad Inc, DBA Millipore Sigma	NOV	10/30/2025	Daily Limit (Acetone) V1 in 12 months	$500.00	$100.00
25-0201	Bolt Medical, Inc.	NOV	11/20/2025	Late report (application) V1 in 12 months	$100.00	$100.00
25-0202	TaylorMade Golf Company	NOV	11/20/2025	Late report (application) V1 in 12 months.	$100.00	$100.00
25-0204	Premier Nutra Pharma	NOV	11/26/2025	Daily limit (pH) V1 in 12 months.	$0.00	$100.00
25-0205	NEOTECH	NOV	11/26/2025	Failure to comply with Ordinance or permit conditions	$500.00	$100.00
25-0206	Primarch Manufacturing, Inc.	NOV	12/2/2025	Monthly average (Acetone) V1 in 12 months	$0.00	$100.00
25-0207	SAFC Carlsbad Inc, DBA Millipore Sigma	NOV	12/2/2025	Monthly average (Acetone) V3 in 12 months.	$1,000.00	$100.00
25-0221	Bolt Medical, Inc.	NOV	12/30/2025	Late Report (Discharge Permit Application) V2 in 12 months	$500.00	$100.00
25-0222	Filanc- Gardendale and Village Park West PRS Vaults	NOV	12/30/2025	Failure to comply with discharge permit (no flow metering)	$100.00	$100.00
25-0223	TaylorMade Golf Company	NOV	12/30/2025	Late report (Discharge Permit Application) V2 in 12 months	$500.00	$100.00
25-0224	Javo Beverage Company	NOV	12/30/2025	Failure to maintain/operate pretreatment system V4 in 12 months	$500.00	$100.00

# of NOVs	**62**	
Subtotal	**$97,250.00**	**$6,100.00**
TOTAL	**$103,350.00**	

Appendix B:
NSCIU List

Appendix B

Encina Wastewater Authority 2025 Pretreatment Annual Report

Non-Significant Categorical Industrial Users (NSCIUs)

Gematria Products, Inc.
2260 Rutherford Rd
Carlsbad, CA, 92008
Category - 40 CFR Part 439

Industrial Strength Corp.
6115 Corte Del Cedro
Carlsbad, CA, 92011
Category - 40 CFR Part 433

Mirada Manufacturing
2384 La Mirada Dr
Vista, CA, 92081
Category - 40 CFR Part 439

Pacific Lasertec, LLC
215 Bingham Dr
San Marcos, CA, 92069
Category - 40 CFR Part 433

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 C:
Pretreatment Budget

Appendix C

OPERATING EXPENSE SUMMARY: SOURCE CONTROL

PERSONNEL

		Actual FY 2023-24	Budget FY 2024-25	Projected FY 2024-25	Proposed FY 2025-26	% Change[1]
5100	Salaries	$ 551,876	$ 570,589	$ 538,651	$ 632,624	10.9%
5200	Benefits	$ 188,758	$ 223,177	$ 210,935	$ 309,767	38.8%
	Total Personnel Expenses	**$ 740,634**	**$ 793,766**	**$ 749,586**	**$ 942,391**	**18.7%**

NON-PERSONNEL

			Actual FY 2023-24	Budget FY 2024-25	Projected FY 2024-25	Proposed FY 2025-26	% Change[1]
40001	5930	Equipment Replacement	$ 6,081	$ 1,000	$ 79	$ 1,000	0.0%
40001	6120	Fuel & Lube	$ 1,449	$ 2,900	$ 1,401	$ 2,900	0.0%
40001	6310	Lab Equipment Repair	$ 9,161	$ 7,000	$ 1,577	$ 9,000	28.6%
40001	6330	Lab Supplies	$ 416	$ 1,600	$ 1,447	$ 1,600	0.0%
40001	6410	Laundry & Uniforms	$ 1,535	$ 2,000	$ 3,067	$ 3,000	50.0%
40001	6422	Legal Notices	$ -	$ 750	$ 1,179	$ 750	0.0%
40001	6430	Memberships	$ -	$ 2,482	$ 1,368	$ 956	-61.5%
40001	6450	Professional Services	$ 41,268	$ 15,000	$ 857	$ 15,000	0.0%
40001	7130	Public Information	$ 3,771	$ 2,000	$ 2,000	$ 2,500	25.0%
40001	7610	Professional Development	$ -	$ 8,400	$ 7,837	$ 9,600	14.3%
		Total Non-Personnel Expenses	**$ 63,681**	**$ 43,132**	**$ 20,812**	**$ 46,306**	**7.4%**

INTERNAL SERVICE FUNDS

		Actual FY 2023-24	Budget FY 2024-25	Projected FY 2024-25	Proposed FY 2025-26	% Change[1]
11001	Administration	$ 193,864	$ 228,783	$ 241,741	$ 286,098	25.1%
12001	Laboratory	$ 82,549	$ 89,606	$ 108,337	$ 113,114	26.2%
13001	Energy Management	$ 2,203	$ 2,698	$ 2,246	$ 2,820	4.5%
	Total Internal Service Fund Expenses	**$ 278,616**	**$ 321,087**	**$ 352,324**	**$ 402,032**	**25.2%**
	Total Operating Expenses	**$ 1,082,931**	**$ 1,157,985**	**$ 1,122,722**	**$ 1,390,729**	**20.1%**

1. Represents the percentage change from the FY 2024-25 Budget to the FY 2025-26 Proposed Budget.

Appendix D:
SNC Publication

Appendix D

PUBLIC NOTICE

INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE WITH SEWER DISCHARGE REQUIREMENTS

For the period from January 1, 2025 through December 31, 2025, 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
SAFC Carlsbad, Inc.	2827 Whiptail Loop, Carlsbad, CA, 92010	Failure to monitor, Failure to report within 24 hours
Neotech	6350 Palomar Oaks Ct., Carlsbad, CA, 92011	Failure to monitor
Glanbia Nutritionals	2840 Loker Ave East, #101, Carlsbad, CA, 92010	Failure to monitor
Metal Etch Services	1165 Linda Vista Drive, San Marcos, CA, 92078	Chromium Monthly Average; Failure to monitor
Prudential Overall Supply	2485 Ash Street, Vista, CA, 92081	Failure to report within 24 hours
Carlsbad Technology, Inc.	5923 Balfour Court, Carlsbad, CA, 92008	Failure to report within 24 hours
Natural Alternatives International	1215 Park Center Drive, Vista, CA, 92081	Failure to report within 24 hours
Captek Softgel International, Inc.	2710 Progress Street, Vista, CA, 92081	Failure to monitor
Bachem Americas, Inc.	1271 Avenida Chelsea, Vista, CA, 92081	Failure to report within 24 hours

The San Diego Union-Tribune

San Diego Union-Tribune (Daily)
7676 Hazard Center Drive # 1025
San Diego, California 92108
(866) 411-4140

Will Svec
6200 Avenida Encinas
Carlsbad, CA 92011

FILE NO. 0011778541

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:

02/13/2026

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 13th day of February, 2026.

Cgaza

Signature

PUBLIC NOTICE

INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE WITH SEWER DISCHARGE REQUIREMENTS

For the period from January 1, 2025 through December 31, 2025, 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
SAFC Carlsbad, Inc.	2827 Whiptail Loop, Carlsbad, CA, 92010	Failure to monitor, Failure to report within 24 hours
Neotech	6350 Palomar Oaks Ct., Carlsbad, CA, 92011	Failure to monitor
Glanbia Nutritionals	2840 Loker Ave East, #101, Carlsbad, CA, 92010	Failure to monitor
Metal Etch Services	1165 Linda Vista Drive, San Marcos, CA, 92078	Chromium Monthly Average; Failure to monitor
Prudential Overall Supply	2485 Ash Street, Vista, CA, 92081	Failure to report within 24 hours
Carlsbad Technology, Inc.	5923 Balfour Court, Carlsbad, CA, 92008	Failure to report within 24 hours
Natural Alternatives International	1215 Park Center Drive, Vista, CA, 92081	Failure to report within 24 hours
Captek Softgel International, Inc.	2710 Progress Street, Vista, CA, 92081	Failure to monitor
Bachem Americas, Inc.	1271 Avenida Chelsea, Vista, CA, 92081	Failure to report within 24 hours

San Diego Union-Tribune
Published: 2/13/26

Appendix E: Priority Pollutant Laboratory Data

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/23/2025 3:18:55 PM Revision 1

JOB DESCRIPTION

CWRF Effluent Quarterly/Annual Retest 2025

JOB NUMBER

570-259550-1

Eurofins Calscience
2841 Dow Avenue
Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

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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12/23/2025 3:18:55 PM
Revision 1

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

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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

Job Narrative
570-259550-1

REVISION

The report being provided is a revision of the original report sent on 12/17/2025. The report (revision 1) is being revised to remove the NCM for method 624 that is not needed.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 12/11/2025 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

GC/MS VOA
Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-668906. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

GC/MS Semi VOA
Method 625.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-668515 and analytical batch 570-668980 recovered outside control limits for the following analytes: N-Nitrosodiphenylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Client Sample ID: CWRF Effluent Grab
Lab Sample ID: 570-259550-1

No Detections.

Client Sample ID: CWRF Effluent Composite
Lab Sample ID: 570-259550-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: CWRF Effluent Grab
Lab Sample ID: 570-259550-1
Date Collected: 12/10/25 07:20
Matrix: Water
Date Received: 12/11/25 16:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.54	ug/L			12/12/25 10:13	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			12/12/25 10:13	1
1,4-Dichlorobenzene	ND		1.0	0.49	ug/L			12/12/25 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*		*12/12/25 10:13*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*12/12/25 10:13*	*1*
Dibromofluoromethane	*96*		*60 - 140*		*12/12/25 10:13*	*1*
Toluene-d8 (Surr)	*106*		*60 - 140*		*12/12/25 10:13*	*1*

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

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

Client Sample ID: CWRF Effluent Composite
Lab Sample ID: 570-259550-2
Date Collected: 12/10/25 07:00
Matrix: Water
Date Received: 12/11/25 16:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.75	ug/L		12/12/25 12:07	12/17/25 00:44	1
N-Nitrosodimethylamine	ND		10	0.75	ug/L		12/12/25 12:07	12/17/25 00:44	1
N-Nitrosodiphenylamine	ND	*+	10	1.2	ug/L		12/12/25 12:07	12/17/25 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*33 - 139*	*12/12/25 12:07*	*12/17/25 00:44*	*1*
2-Fluorobiphenyl (Surr)	*74*		*33 - 126*	*12/12/25 12:07*	*12/17/25 00:44*	*1*
2-Fluorophenol (Surr)	*39*		*12 - 120*	*12/12/25 12:07*	*12/17/25 00:44*	*1*
Nitrobenzene-d5 (Surr)	*71*		*36 - 120*	*12/12/25 12:07*	*12/17/25 00:44*	*1*
Phenol-d6 (Surr)	*25*		*10 - 120*	*12/12/25 12:07*	*12/17/25 00:44*	*1*
p-Terphenyl-d14 (Surr)	*72*		*47 - 131*	*12/12/25 12:07*	*12/17/25 00:44*	*1*

Surrogate Summary

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
570-259550-1	CWRF Effluent Grab	115	104	96	106
LCS 570-668906/1004	Lab Control Sample	115	106	94	105
LCSD 570-668906/7	Lab Control Sample Dup	116	107	93	106
MB 570-668906/9	Method Blank	114	104	94	105

Surrogate Legend

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

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
570-259275-L-1-B MS	Matrix Spike	69	66	48	65	32	68
570-259275-N-1-C MSD	Matrix Spike Duplicate	74	66	50	67	33	75
570-259550-2	CWRF Effluent Composite	84	74	39	71	25	72
LCS 570-668515/2-A	Lab Control Sample	107	88	64	80	39	100
LCSD 570-668515/3-A	Lab Control Sample Dup	101	83	60	76	38	93
MB 570-668515/1-A	Method Blank	94	83	54	85	33	86

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)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-668906/9
Matrix: Water
Analysis Batch: 668906

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.54	ug/L			12/12/25 09:30	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			12/12/25 09:30	1
1,4-Dichlorobenzene	ND		1.0	0.49	ug/L			12/12/25 09:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*12/12/25 09:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*12/12/25 09:30*	*1*
Dibromofluoromethane	*94*		*60 - 140*		*12/12/25 09:30*	*1*
Toluene-d8 (Surr)	*105*		*60 - 140*		*12/12/25 09:30*	*1*

Lab Sample ID: LCS 570-668906/1004
Matrix: Water
Analysis Batch: 668906

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dichlorobenzene			20.0	20.7		ug/L		104	65 - 135		
1,3-Dichlorobenzene			20.0	19.6		ug/L		98	70 - 130		
1,4-Dichlorobenzene			20.0	19.3		ug/L		97	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*
Dibromofluoromethane	*94*		*60 - 140*
Toluene-d8 (Surr)	*105*		*60 - 140*

Lab Sample ID: LCSD 570-668906/7
Matrix: Water
Analysis Batch: 668906

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			20.0	20.9		ug/L		105	65 - 135	1	57
1,3-Dichlorobenzene			20.0	20.1		ug/L		100	70 - 130	2	43
1,4-Dichlorobenzene			20.0	19.5		ug/L		97	65 - 135	1	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*
Dibromofluoromethane	*93*		*60 - 140*
Toluene-d8 (Surr)	*106*		*60 - 140*

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

Lab Sample ID: MB 570-668515/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 668980
Prep Batch: 668515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.74	ug/L		12/11/25 12:13	12/12/25 15:44	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		12/11/25 12:13	12/12/25 15:44	1
N-Nitrosodiphenylamine	ND		10	1.2	ug/L		12/11/25 12:13	12/12/25 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*33 - 139*	*12/11/25 12:13*	*12/12/25 15:44*	*1*
2-Fluorobiphenyl (Surr)	*83*		*33 - 126*	*12/11/25 12:13*	*12/12/25 15:44*	*1*
2-Fluorophenol (Surr)	*54*		*12 - 120*	*12/11/25 12:13*	*12/12/25 15:44*	*1*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*	*12/11/25 12:13*	*12/12/25 15:44*	*1*
Phenol-d6 (Surr)	*33*		*10 - 120*	*12/11/25 12:13*	*12/12/25 15:44*	*1*
p-Terphenyl-d14 (Surr)	*86*		*47 - 131*	*12/11/25 12:13*	*12/12/25 15:44*	*1*

Lab Sample ID: LCS 570-668515/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 668980
Prep Batch: 668515

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Diphenylhydrazine(as Azobenzene)			100	81.1		ug/L		81	57 - 120		
N-Nitrosodimethylamine			100	60.7		ug/L		61	38 - 120		
N-Nitrosodiphenylamine			100	136	*+	ug/L		136	79 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*107*		*33 - 139*
2-Fluorobiphenyl (Surr)	*88*		*33 - 126*
2-Fluorophenol (Surr)	*64*		*12 - 120*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*
Phenol-d6 (Surr)	*39*		*10 - 120*
p-Terphenyl-d14 (Surr)	*100*		*47 - 131*

Lab Sample ID: LCSD 570-668515/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 668980
Prep Batch: 668515

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			100	81.6		ug/L		82	57 - 120	1	20
N-Nitrosodimethylamine			100	57.9		ug/L		58	38 - 120	5	20
N-Nitrosodiphenylamine			100	126		ug/L		126	79 - 127	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*101*		*33 - 139*
2-Fluorobiphenyl (Surr)	*83*		*33 - 126*
2-Fluorophenol (Surr)	*60*		*12 - 120*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*
Phenol-d6 (Surr)	*38*		*10 - 120*
p-Terphenyl-d14 (Surr)	*93*		*47 - 131*

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

Lab Sample ID: 570-259275-L-1-B MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 670290
Prep Batch: 668515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	ND		103	75.3		ug/L		73	60 - 140
N-Nitrosodimethylamine	ND		103	47.2		ug/L		46	25 - 110
N-Nitrosodiphenylamine	ND	*+	103	94.0		ug/L		91	50 - 110

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*69*		*33 - 139*
2-Fluorobiphenyl (Surr)	*66*		*33 - 126*
2-Fluorophenol (Surr)	*48*		*12 - 120*
Nitrobenzene-d5 (Surr)	*65*		*36 - 120*
Phenol-d6 (Surr)	*32*		*10 - 120*
p-Terphenyl-d14 (Surr)	*68*		*47 - 131*

Lab Sample ID: 570-259275-N-1-C MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 670290
Prep Batch: 668515

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		103	76.5		ug/L		74	60 - 140	2	30
N-Nitrosodimethylamine	ND		103	50.3		ug/L		49	25 - 110	6	30
N-Nitrosodiphenylamine	ND	*+	103	105		ug/L		101	50 - 110	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*74*		*33 - 139*
2-Fluorobiphenyl (Surr)	*66*		*33 - 126*
2-Fluorophenol (Surr)	*50*		*12 - 120*
Nitrobenzene-d5 (Surr)	*67*		*36 - 120*
Phenol-d6 (Surr)	*33*		*10 - 120*
p-Terphenyl-d14 (Surr)	*75*		*47 - 131*

QC Association Summary

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

GC/MS VOA

Analysis Batch: 668906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-259550-1	CWRF Effluent Grab	Total/NA	Water	624.1	
MB 570-668906/9	Method Blank	Total/NA	Water	624.1	
LCS 570-668906/1004	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-668906/7	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 668515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-259550-2	CWRF Effluent Composite	Total/NA	Water	625.1	
MB 570-668515/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-668515/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-668515/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
570-259275-L-1-B MS	Matrix Spike	Total/NA	Water	625.1	
570-259275-N-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 668980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-668515/1-A	Method Blank	Total/NA	Water	625.1	668515
LCS 570-668515/2-A	Lab Control Sample	Total/NA	Water	625.1	668515
LCSD 570-668515/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	668515

Analysis Batch: 670290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-259275-L-1-B MS	Matrix Spike	Total/NA	Water	625.1	668515
570-259275-N-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	668515

Analysis Batch: 671216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-259550-2	CWRF Effluent Composite	Total/NA	Water	625.1	668515

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Client Sample ID: CWRF Effluent Grab
Lab Sample ID: 570-259550-1
Date Collected: 12/10/25 07:20
Matrix: Water
Date Received: 12/11/25 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	668906	12/12/25 10:13	AH8S	EET CAL 4
	Instrument ID: GCMSXX									

Client Sample ID: CWRF Effluent Composite
Lab Sample ID: 570-259550-2
Date Collected: 12/10/25 07:00
Matrix: Water
Date Received: 12/11/25 16:53

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			988.5 mL	2 mL	668515	12/12/25 12:07	VAW2	EET CAL 4
Total/NA	Analysis	625.1		1	1 mL	1 mL	671216	12/17/25 00:44	J7WE	EET CAL 4
	Instrument ID: GCMSSS									

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
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

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	02-02-26

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
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
Job ID: 570-259550-1
Project/Site: CWRF Effluent Quarterly/Annual Retest 2025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-259550-1	CWRF Effluent Grab	Water	12/10/25 07:20	12/11/25 16:53	California
570-259550-2	CWRF Effluent Composite	Water	12/10/25 07:00	12/11/25 16:53	California

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Environ Americ | Loc: 570 | 259550

570-259550 Chain of Custody

Client Information	Sampler: SN	Lab PM: Janice Hsu	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com	Page: Page 1 of 1
Company: Encina Wastewater Authority			Job #:
Address: 6200 Avenida Encinas	Due Date Requested:		
City: Carlsbad	TAT Requested (days): 1 DAY RUSH		
State, Zip: California, 92011			
Phone: 760-268-8801	PO #: 20260035		
Email: rachael@encinajpa.com	WO #:		
Project Name: CWRF Quarterly/Annaul Retest 2025	Project #:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	EPA 624: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene	EPA 625: N-Nitrosodimethlamine, N-Nitrosodiphenylamine, 1,2-Diphenylhydrazine/Azobenzene	Total Number of containers	Special Instructions/Note:
									* 1 Day Rush *
CWRF Effluent	12/10/25	0720	G	WW		X		3	40mL VOA w/Sodium Thiosulfate & HCl
CWRF Effluent	12/10/25	0700-0700	C	WW			X	3	1L Amber w/Sodium Thiosulfate

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/11/25 1225	ENV		12.11.25 1225	
2		12.11.25 1653	EC		12.11.25 1653	EC
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: IR5 3.0/3.2

VUF2

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-259550-1

Login Number: 259550

List Source: Eurofins Calscience

List Number: 1

Creator: Nguyen, Jenny

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

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 5C20027

Project: 2025 Annual CWRF Effluent Priority Pollutant Scan

Attn: Rachael Morgan

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

Report Date: 4/30/2025
Received Date: 3/20/2025
Turnaround Time: Normal
Phones: (760) 438-3941
Fax:
P.O. #:
Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

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 analytical results for the samples submitted under the attached Chain of Custody document. All analyses adhered to the method criteria, except where noted in the case narrative, sample condition checklist, and/or data qualifiers.

Reviewed by:

Ryan J. Gasio
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139
www.wecklabs.com

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2025 Annual CWRF Effluent Priority Pollutant Scan
Project Manager: Rachael Morgan

Reported:
04/30/2025 11:00

Sample Condition

Temperature	1.00 C		
COC present	✓	COC completed properly	✓
COC matches sample labels	✓	Wet ice	✓
Blue ice		Sample(s) intact	✓
Sample(s) using proper containers	✓	Sample(s) have sufficient sample volume	✓
Sample(s) received within hold time	✓	Sample(s) labels have correct preservation	✓
Sample(s) have acceptable pH	✓	Sample(s) have acceptable Cl	✓

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
CWRF EFFLUENT	AP/SN	5C20027-01	Water	03/19/25 07:00	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139
www.wecklabs.com

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2025 Annual CWRF Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 04/30/2025 11:00

Sample Results

Sample: CWRF EFFLUENT

Sampled: 03/19/25 7:00 by AP/SN

5C20027-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W5C1967	**Preparation:** EPA 625/L-L SF	**Prepared:** 03/26/25 07:58			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	04/10/25	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	04/10/25	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	04/10/25	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	04/10/25	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	04/10/25	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	04/10/25	
2,4-Dichlorophenol	ND	1.0	ug/l	1	04/10/25	
2,4-Dimethylphenol	ND	1.0	ug/l	1	04/10/25	
2,4-Dinitrophenol	ND	10	ug/l	1	04/10/25	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	04/10/25	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	04/10/25	
2-Chloronaphthalene	ND	1.0	ug/l	1	04/10/25	
2-Chlorophenol	ND	1.0	ug/l	1	04/10/25	
2-Methyl-4,6-dinitrophenol	ND	5.0	ug/l	1	04/10/25	
2-Nitrophenol	ND	1.0	ug/l	1	04/10/25	
3,3'-Dichlorobenzidine	ND	5.0	ug/l	1	04/10/25	BS-04
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	04/10/25	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	04/10/25	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	04/10/25	
4-Nitrophenol	ND	5.0	ug/l	1	04/10/25	
Acenaphthene	ND	1.0	ug/l	1	04/10/25	
Acenaphthylene	ND	1.0	ug/l	1	04/10/25	
Anthracene	ND	1.0	ug/l	1	04/10/25	
Benzidine	ND	10	ug/l	1	04/10/25	
Benzo (a) anthracene	ND	1.0	ug/l	1	04/10/25	
Benzo (a) pyrene	ND	1.0	ug/l	1	04/10/25	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	04/10/25	
Benzo (g,h,i) perylene	ND	2.0	ug/l	1	04/10/25	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	04/10/25	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	04/10/25	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	04/10/25	
Bis(2-chloroisopropyl) ether	ND	1.0	ug/l	1	04/10/25	
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l	1	04/10/25	
Butyl benzyl phthalate	ND	1.0	ug/l	1	04/10/25	

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6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2025 Annual CWRF Effluent Priority Pollutant Scan
Project Manager: Rachael Morgan

Reported: 04/30/2025 11:00

Sample Results

(Continued)

Sample: CWRF EFFLUENT

Sampled: 03/19/25 7:00 by AP/SN

5C20027-01 (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: W5C1967 **Preparation:** EPA 625/L-L SF		**Prepared:** 03/26/25 07:58			**Analyst:** rmr	
Chrysene	ND	1.0	ug/l	1	04/10/25	
Dibenzo (a,h) anthracene	ND	2.0	ug/l	1	04/10/25	
Diethyl phthalate	ND	1.0	ug/l	1	04/10/25	
Dimethyl phthalate	ND	1.0	ug/l	1	04/10/25	
Di-n-butyl phthalate	ND	1.0	ug/l	1	04/10/25	
Di-n-octyl phthalate	ND	1.0	ug/l	1	04/10/25	
Fluoranthene	ND	1.0	ug/l	1	04/10/25	
Fluorene	ND	1.0	ug/l	1	04/10/25	
Hexachlorobenzene	ND	1.0	ug/l	1	04/10/25	
Hexachlorobutadiene	ND	1.0	ug/l	1	04/10/25	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	04/10/25	
Hexachloroethane	ND	1.0	ug/l	1	04/10/25	
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l	1	04/10/25	
Isophorone	ND	1.0	ug/l	1	04/10/25	
Naphthalene	ND	1.0	ug/l	1	04/10/25	
Nitrobenzene	ND	1.0	ug/l	1	04/10/25	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	04/10/25	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	04/10/25	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	04/10/25	
Pentachlorophenol	ND	1.0	ug/l	1	04/10/25	
Phenanthrene	ND	1.0	ug/l	1	04/10/25	
Phenol	ND	1.0	ug/l	1	04/10/25	
Pyrene	ND	1.0	ug/l	1	04/10/25	
Surrogate(s)						
2,4,6-Tribromophenol	*84%*	*Conc: 32.0*	*25-120*		*04/10/25*	
2-Fluorobiphenyl	*74%*	*Conc: 14.1*	*22-120*		*04/10/25*	
2-Fluorophenol	*40%*	*Conc: 15.3*	*17-120*		*04/10/25*	
Nitrobenzene-d5	*87%*	*Conc: 16.5*	*47-120*		*04/10/25*	
Phenol-d5	*29%*	*Conc: 11.1*	*12-120*		*04/10/25*	
Terphenyl-d14	*86%*	*Conc: 16.3*	*44-129*		*04/10/25*	
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W5C1741 **Preparation:** EPA 608/L-L SF		**Prepared:** 03/24/25 08:16			**Analyst:** ECS	
4,4´-DDD	ND	0.50	ug/l	10	04/03/25	M-04
4,4´-DDE	ND	0.50	ug/l	10	04/03/25	M-04

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Project Manager: Rachael Morgan

Reported: 04/30/2025 11:00

Sample Results

(Continued)

Sample: CWRF EFFLUENT

Sampled: 03/19/25 7:00 by AP/SN

5C20027-01 (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: W5C1741	**Preparation:** EPA 608/L-L SF	**Prepared:** 03/24/25 08:16			**Analyst:** ECS	
4,4´-DDT	ND	0.10	ug/l	10	04/03/25	M-04
Aldrin	ND	0.050	ug/l	10	04/03/25	M-04
alpha-BHC	ND	0.10	ug/l	10	04/03/25	M-04
Aroclor 1016	ND	5.0	ug/l	10	04/03/25	M-04
Aroclor 1221	ND	5.0	ug/l	10	04/03/25	M-04
Aroclor 1232	ND	5.0	ug/l	10	04/03/25	M-04
Aroclor 1242	ND	5.0	ug/l	10	04/03/25	M-04
Aroclor 1248	ND	5.0	ug/l	10	04/03/25	M-04
Aroclor 1254	ND	5.0	ug/l	10	04/03/25	M-04
Aroclor 1260	ND	5.0	ug/l	10	04/03/25	M-04
beta-BHC	ND	0.050	ug/l	10	04/03/25	M-04
Chlordane (tech)	ND	1.0	ug/l	10	04/03/25	M-04
delta-BHC	ND	0.050	ug/l	10	04/03/25	M-04
Dieldrin	ND	0.10	ug/l	10	04/03/25	M-04
Endosulfan I	ND	0.20	ug/l	10	04/03/25	M-04
Endosulfan II	ND	0.10	ug/l	10	04/03/25	M-04
Endosulfan sulfate	ND	0.50	ug/l	10	04/03/25	M-04
Endrin	ND	0.10	ug/l	10	04/03/25	M-04
Endrin aldehyde	ND	0.10	ug/l	10	04/03/25	M-04
gamma-BHC (Lindane)	ND	0.20	ug/l	10	04/03/25	M-04
Heptachlor	ND	0.10	ug/l	10	04/03/25	M-04
Heptachlor epoxide	ND	0.10	ug/l	10	04/03/25	M-04
Toxaphene	ND	5.0	ug/l	10	04/03/25	M-04
Surrogate(s)						
Decachlorobiphenyl	*66% Conc: 0.0628*	*33-133*			*04/03/25*	
Tetrachloro-meta-xylene	*59% Conc: 0.0559*	*32-130*			*04/03/25*	
Perchlorate by EPA 314.0						
Method: EPA 314.0		**Instr:** LC08				
Batch ID: W5C1612	**Preparation:** _NONE (LC)	**Prepared:** 03/21/25 09:10			**Analyst:** TMC	
Perchlorate	ND	1.0	ug/l	1	03/27/25	
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 624.1		**Instr:** GCMS21				
Batch ID: W5C1605	**Preparation:** EPA 5030B	**Prepared:** 03/21/25 08:13			**Analyst:** ADM	
1,1,1-Trichloroethane	ND	1.0	ug/l	1	03/21/25	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	1	03/21/25	

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Sample Results

(Continued)

Sample: CWRF EFFLUENT

Sampled: 03/19/25 7:00 by AP/SN

5C20027-01 (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: W5C1605 **Preparation:** EPA 5030B			**Prepared:** 03/21/25 08:13			**Analyst:** ADM
1,1,2-Trichloroethane	ND	1.0	ug/l	1	03/21/25	
1,1-Dichloroethane	ND	1.0	ug/l	1	03/21/25	
1,1-Dichloroethene	ND	1.0	ug/l	1	03/21/25	
1,2-Dichloroethane	ND	1.0	ug/l	1	03/21/25	
1,2-Dichloropropane	ND	1.0	ug/l	1	03/21/25	
2-Butanone	ND	5.0	ug/l	1	03/21/25	
2-Chloroethyl vinyl ether	ND	1.0	ug/l	1	03/21/25	
2-Hexanone	ND	5.0	ug/l	1	03/21/25	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	03/21/25	
Acetone	ND	5.0	ug/l	1	03/21/25	
Acrolein	ND	5.0	ug/l	1	03/21/25	
Acrylonitrile	ND	2.0	ug/l	1	03/21/25	
Benzene	ND	1.0	ug/l	1	03/21/25	
Bromodichloromethane	**1.6**	1.0	ug/l	1	03/21/25	
Bromoform	ND	1.0	ug/l	1	03/21/25	
Bromomethane	ND	1.0	ug/l	1	03/21/25	
Carbon Disulfide	ND	1.0	ug/l	1	03/21/25	
Carbon tetrachloride	ND	1.0	ug/l	1	03/21/25	
Chlorobenzene	ND	1.0	ug/l	1	03/21/25	
Chloroethane	ND	1.0	ug/l	1	03/21/25	
Chloroform	**6.9**	1.0	ug/l	1	03/21/25	
Chloromethane	ND	1.0	ug/l	1	03/21/25	
cis-1,3-Dichloropropene	ND	1.0	ug/l	1	03/21/25	
Dibromochloromethane	ND	1.0	ug/l	1	03/21/25	
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/l	1	03/21/25	
Ethylbenzene	ND	1.0	ug/l	1	03/21/25	
m-Dichlorobenzene	ND	1.0	ug/l	1	03/21/25	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l	1	03/21/25	
Methylene chloride	ND	1.0	ug/l	1	03/21/25	
o-Dichlorobenzene	ND	1.0	ug/l	1	03/21/25	
p-Dichlorobenzene	ND	1.0	ug/l	1	03/21/25	
Tetrachloroethene	ND	1.0	ug/l	1	03/21/25	
Toluene	ND	1.0	ug/l	1	03/21/25	
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	03/21/25	

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Reported: 04/30/2025 11:00

Sample Results (Continued)

Sample: CWRF EFFLUENT

Sampled: 03/19/25 7:00 by AP/SN

5C20027-01 (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: W5C1605 **Preparation:** EPA 5030B		**Prepared:** 03/21/25 08:13			**Analyst:** ADM	
trans-1,3-Dichloropropene	ND	1.0	ug/l	1	03/21/25	
Trichloroethene	ND	1.0	ug/l	1	03/21/25	
Trichlorofluoromethane	ND	1.0	ug/l	1	03/21/25	
Vinyl chloride	ND	1.0	ug/l	1	03/21/25	
Surrogate(s)						
1,2-Dichloroethane-d4	*110%*	*Conc: 55.2*	*82-125*		*03/21/25*	
4-Bromofluorobenzene	*102%*	*Conc: 51.0*	*88-108*		*03/21/25*	
Toluene-d8	*105%*	*Conc: 52.3*	*92-112*		*03/21/25*	

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

Sample: CWRF EFFLUENT
5C20027-01 (Water)

Sampled: 03/19/25 7:00 by AP/SN

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
EPA 100.2							
Method: EPA 100.2	**Batch ID:** 322505810		**Prepared:** 03/24/25 13:50			**Analyst:** _SUB	
Asbestos	ND		0.34	MFL	1	03/29/25	
Fibers:	**Area:** 0.256	**Confidence:** 0.00-1.20					

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Project Number: 2025 Annual CWRF Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 04/30/2025 11:00

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1967 - EPA 625.1										
Blank (W5C1967-BLK1)			**Prepared: 03/26/25 Analyzed: 04/10/25**							
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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Reported: 04/30/2025 11:00

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
Batch: W5C1967 - EPA 625.1 (Continued)										
Blank (W5C1967-BLK1)			**Prepared: 03/26/25 Analyzed: 04/10/25**							
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							
Surrogate(s)										
2,4,6-Tribromophenol	*36.6*		*ug/l*	*40.0*		*92*	*25-120*			
2-Fluorobiphenyl	*18.2*		*ug/l*	*20.0*		*91*	*22-120*			
2-Fluorophenol	*22.9*		*ug/l*	*40.0*		*57*	*17-120*			
Nitrobenzene-d5	*22.1*		*ug/l*	*20.0*		*110*	*47-120*			
Phenol-d5	*14.6*		*ug/l*	*40.0*		*36*	*12-120*			
Terphenyl-d14	*23.6*		*ug/l*	*20.0*		*118*	*44-129*			
LCS (W5C1967-BS1)			**Prepared: 03/26/25 Analyzed: 04/10/25**							
1,2,4-Trichlorobenzene	16.5	1.0	ug/l	20.0		82	57-130			
1,2-Dichlorobenzene	14.7	1.0	ug/l	20.0		73	57-120			
1,3-Dichlorobenzene	13.9	1.0	ug/l	20.0		70	55-120			
1,4-Dichlorobenzene	13.9	1.0	ug/l	20.0		69	55-120			
2,4,6-Trichlorophenol	18.5	1.0	ug/l	20.0		93	52-129			
2,4-Dichlorophenol	19.4	1.0	ug/l	20.0		97	53-122			
2,4-Dimethylphenol	10.7	1.0	ug/l	20.0		54	42-120			
2,4-Dinitrophenol	22.1	10	ug/l	20.0		111	0.1-173			
2,4-Dinitrotoluene	22.8	1.0	ug/l	20.0		114	48-127			
2,6-Dinitrotoluene	18.7	1.0	ug/l	20.0		94	68-137			
2-Chloronaphthalene	17.3	1.0	ug/l	20.0		87	65-120			
2-Chlorophenol	15.1	1.0	ug/l	20.0		76	36-120			
2-Methyl-4,6-dinitrophenol	22.2	5.0	ug/l	20.0		111	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1967 - EPA 625.1 (Continued)										
LCS (W5C1967-BS1)				**Prepared: 03/26/25**		**Analyzed: 04/10/25**				
2-Nitrophenol	19.5	1.0	ug/l	20.0		98	45-167			
3,3'-Dichlorobenzidine	9.67	5.0	ug/l	20.0		48	8-213			
4-Bromophenyl phenyl ether	21.7	1.0	ug/l	20.0		109	65-120			
4-Chloro-3-methylphenol	19.2	1.0	ug/l	20.0		96	41-128			
4-Chlorophenyl phenyl ether	21.2	1.0	ug/l	20.0		106	38-145			
4-Nitrophenol	7.88	5.0	ug/l	20.0		39	13-129			
Acenaphthene	21.2	1.0	ug/l	20.0		106	60-132			
Acenaphthylene	19.0	1.0	ug/l	20.0		95	54-126			
Anthracene	18.0	1.0	ug/l	20.0		90	43-120			
Benzo (a) anthracene	18.3	1.0	ug/l	20.0		92	42-133			
Benzo (a) pyrene	19.9	1.0	ug/l	20.0		100	32-148			
Benzo (b) fluoranthene	20.3	1.0	ug/l	20.0		102	42-140			AN-IP
Benzo (g,h,i) perylene	19.7	2.0	ug/l	20.0		99	0.1-195			
Benzo (k) fluoranthene	21.5	1.0	ug/l	20.0		107	25-146			AN-IP
Bis(2-chloroethoxy)methane	19.1	1.0	ug/l	20.0		95	49-165			
Bis(2-chloroethyl)ether	16.6	1.0	ug/l	20.0		83	43-126			
Bis(2-chloroisopropyl) ether	16.7	1.0	ug/l	20.0		83	63-139			
Bis(2-ethylhexyl)phthalate	19.6	5.0	ug/l	20.0		98	29-137			
Butyl benzyl phthalate	21.4	1.0	ug/l	20.0		107	0.1-140			
Chrysene	20.2	1.0	ug/l	20.0		101	44-140			
Dibenzo (a,h) anthracene	15.0	2.0	ug/l	20.0		75	0.1-200			
Diethyl phthalate	21.4	1.0	ug/l	20.0		107	0.1-120			
Dimethyl phthalate	20.9	1.0	ug/l	20.0		105	0.1-120			
Di-n-butyl phthalate	19.6	1.0	ug/l	20.0		98	8-120			
Di-n-octyl phthalate	21.3	1.0	ug/l	20.0		106	19-132			
Fluoranthene	18.2	1.0	ug/l	20.0		91	43-121			
Fluorene	20.0	1.0	ug/l	20.0		100	70-120			
Hexachlorobenzene	20.8	1.0	ug/l	20.0		104	8-142			
Hexachlorobutadiene	16.0	1.0	ug/l	20.0		80	38-120			
Hexachlorocyclopentadiene	10.1	5.0	ug/l	20.0		50	10-120			
Hexachloroethane	14.8	1.0	ug/l	20.0		74	55-120			
Indeno (1,2,3-cd) pyrene	17.6	2.0	ug/l	20.0		88	0.1-151			
Isophorone	18.7	1.0	ug/l	20.0		93	47-180			
Naphthalene	14.8	1.0	ug/l	20.0		74	36-120			
Nitrobenzene	19.3	1.0	ug/l	20.0		96	54-158			
N-Nitrosodimethylamine	9.52	1.0	ug/l	20.0		48	22-120			
N-Nitrosodi-n-propylamine	17.9	1.0	ug/l	20.0		89	14-198			
N-Nitrosodiphenylamine	15.6	1.0	ug/l	20.0		78	47-120			
Pentachlorophenol	21.1	1.0	ug/l	20.0		105	41-120			

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Project Number: 2025 Annual CWRF Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 04/30/2025 11:00

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
Batch: W5C1967 - EPA 625.1 (Continued)										
LCS (W5C1967-BS1)				**Prepared: 03/26/25**		**Analyzed: 04/10/25**				
Phenanthrene	17.8	1.0	ug/l	20.0		89	65-120			
Phenol	5.87	1.0	ug/l	20.0		29	17-120			
Pyrene	20.3	1.0	ug/l	20.0		101	70-120			
Surrogate(s)										
2,4,6-Tribromophenol	*34.4*		*ug/l*	*40.0*		*86*	*25-120*			
2-Fluorobiphenyl	*15.5*		*ug/l*	*20.0*		*77*	*22-120*			
2-Fluorophenol	*15.9*		*ug/l*	*40.0*		*40*	*17-120*			
Nitrobenzene-d5	*16.8*		*ug/l*	*20.0*		*84*	*47-120*			
Phenol-d5	*11.0*		*ug/l*	*40.0*		*27*	*12-120*			
Terphenyl-d14	*18.8*		*ug/l*	*20.0*		*94*	*44-129*			
LCS Dup (W5C1967-BSD1)				**Prepared: 03/26/25**		**Analyzed: 04/10/25**				
1,2,4-Trichlorobenzene	16.0	1.0	ug/l	20.0		80	57-130	3	30	
1,2-Dichlorobenzene	15.0	1.0	ug/l	20.0		75	57-120	2	30	
1,3-Dichlorobenzene	14.5	1.0	ug/l	20.0		72	55-120	4	30	
1,4-Dichlorobenzene	14.5	1.0	ug/l	20.0		72	55-120	4	30	
2,4,6-Trichlorophenol	17.7	1.0	ug/l	20.0		88	52-129	5	30	
2,4-Dichlorophenol	18.9	1.0	ug/l	20.0		94	53-122	2	30	
2,4-Dimethylphenol	8.99	1.0	ug/l	20.0		45	42-120	18	30	
2,4-Dinitrophenol	24.1	10	ug/l	20.0		121	0.1-173	9	30	
2,4-Dinitrotoluene	23.6	1.0	ug/l	20.0		118	48-127	3	30	
2,6-Dinitrotoluene	19.1	1.0	ug/l	20.0		95	68-137	2	30	
2-Chloronaphthalene	16.2	1.0	ug/l	20.0		81	65-120	6	30	
2-Chlorophenol	15.8	1.0	ug/l	20.0		79	36-120	4	30	
2-Methyl-4,6-dinitrophenol	23.9	5.0	ug/l	20.0		119	53-130	7	30	
2-Nitrophenol	19.6	1.0	ug/l	20.0		98	45-167	0.4	30	
3,3'-Dichlorobenzidine	0.664	5.0	ug/l	20.0		3	8-213	174	30	BS-04
4-Bromophenyl phenyl ether	21.6	1.0	ug/l	20.0		108	65-120	0.8	30	
4-Chloro-3-methylphenol	18.2	1.0	ug/l	20.0		91	41-128	5	30	
4-Chlorophenyl phenyl ether	20.3	1.0	ug/l	20.0		102	38-145	4	30	
4-Nitrophenol	8.25	5.0	ug/l	20.0		41	13-129	5	30	
Acenaphthene	20.0	1.0	ug/l	20.0		100	60-132	6	30	
Acenaphthylene	18.2	1.0	ug/l	20.0		91	54-126	4	30	
Anthracene	18.3	1.0	ug/l	20.0		91	43-120	2	30	
Benzo (a) anthracene	19.4	1.0	ug/l	20.0		97	42-133	6	30	
Benzo (a) pyrene	19.6	1.0	ug/l	20.0		98	32-148	2	30	
Benzo (b) fluoranthene	22.0	1.0	ug/l	20.0		110	42-140	8	30	AN-IP
Benzo (g,h,i) perylene	20.0	2.0	ug/l	20.0		100	0.1-195	2	30	
Benzo (k) fluoranthene	20.4	1.0	ug/l	20.0		102	25-146	5	30	AN-IP
Bis(2-chloroethoxy)methane	18.6	1.0	ug/l	20.0		93	49-165	3	30	

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1967 - EPA 625.1 (Continued)										
LCS Dup (W5C1967-BSD1)				**Prepared: 03/26/25**		**Analyzed: 04/10/25**				
Bis(2-chloroethyl)ether	16.9	1.0	ug/l	20.0		85	43-126	2	30	
Bis(2-chloroisopropyl) ether	17.4	1.0	ug/l	20.0		87	63-139	4	30	
Bis(2-ethylhexyl)phthalate	19.8	5.0	ug/l	20.0		99	29-137	1	30	
Butyl benzyl phthalate	22.0	1.0	ug/l	20.0		110	0.1-140	3	30	
Chrysene	20.5	1.0	ug/l	20.0		102	44-140	1	30	
Dibenzo (a,h) anthracene	15.6	2.0	ug/l	20.0		78	0.1-200	4	30	
Diethyl phthalate	21.5	1.0	ug/l	20.0		107	0.1-120	0.5	30	
Dimethyl phthalate	20.6	1.0	ug/l	20.0		103	0.1-120	2	30	
Di-n-butyl phthalate	19.5	1.0	ug/l	20.0		97	8-120	0.7	30	
Di-n-octyl phthalate	21.8	1.0	ug/l	20.0		109	19-132	2	30	
Fluoranthene	18.8	1.0	ug/l	20.0		94	43-121	3	30	
Fluorene	19.4	1.0	ug/l	20.0		97	70-120	3	30	
Hexachlorobenzene	20.5	1.0	ug/l	20.0		103	8-142	1	30	
Hexachlorobutadiene	15.9	1.0	ug/l	20.0		79	38-120	0.8	30	
Hexachlorocyclopentadiene	10.1	5.0	ug/l	20.0		50	10-120	0.06	30	
Hexachloroethane	15.5	1.0	ug/l	20.0		78	55-120	5	30	
Indeno (1,2,3-cd) pyrene	17.9	2.0	ug/l	20.0		89	0.1-151	1	30	
Isophorone	17.8	1.0	ug/l	20.0		89	47-180	5	30	
Naphthalene	14.4	1.0	ug/l	20.0		72	36-120	3	30	
Nitrobenzene	19.5	1.0	ug/l	20.0		97	54-158	1	30	
N-Nitrosodimethylamine	10.5	1.0	ug/l	20.0		52	22-120	9	30	
N-Nitrosodi-n-propylamine	17.7	1.0	ug/l	20.0		88	14-198	1	30	
N-Nitrosodiphenylamine	15.2	1.0	ug/l	20.0		76	47-120	3	30	
Pentachlorophenol	20.4	1.0	ug/l	20.0		102	41-120	3	30	
Phenanthrene	17.5	1.0	ug/l	20.0		88	65-120	2	30	
Phenol	5.97	1.0	ug/l	20.0		30	17-120	2	30	
Pyrene	20.4	1.0	ug/l	20.0		102	70-120	0.3	30	
Surrogate(s)										
2,4,6-Tribromophenol	*34.0*		*ug/l*	*40.0*		*85*	*25-120*			
2-Fluorobiphenyl	*14.7*		*ug/l*	*20.0*		*73*	*22-120*			
2-Fluorophenol	*17.0*		*ug/l*	*40.0*		*43*	*17-120*			
Nitrobenzene-d5	*17.4*		*ug/l*	*20.0*		*87*	*47-120*			
Phenol-d5	*11.1*		*ug/l*	*40.0*		*28*	*12-120*			
Terphenyl-d14	*19.2*		*ug/l*	*20.0*		*96*	*44-129*			

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Reported: 04/30/2025 11:00

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1741 - EPA 608.3										
Blank (W5C1741-BLK1)			**Prepared: 03/24/25 Analyzed: 04/03/25**							
2,4'-DDD	ND	0.010	ug/l							
2,4'-DDE	ND	0.010	ug/l							
2,4'-DDT	ND	0.010	ug/l							
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							
Mirex	ND	0.010	ug/l							
Toxaphene	ND	0.50	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0558*		*ug/l*	*0.100*		*56*	*33-133*			
Tetrachloro-meta-xylene	*0.0672*		*ug/l*	*0.100*		*67*	*32-130*			
Blank (W5C1741-BLK2)			**Prepared: 03/24/25 Analyzed: 04/16/25**							
2,4'-DDD	ND	0.010	ug/l							C-3620, QC-2
2,4'-DDE	ND	0.010	ug/l							C-3620, QC-2
2,4'-DDT	ND	0.010	ug/l							C-3620, QC-2
4,4´-DDD	ND	0.050	ug/l							C-3620, 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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1741 - EPA 608.3 (Continued)										
Blank (W5C1741-BLK2)			**Prepared: 03/24/25 Analyzed: 04/16/25**							
4,4´-DDE	ND	0.050	ug/l							C-3620, QC-2
4,4´-DDT	ND	0.010	ug/l							C-3620, QC-2
Aldrin	ND	0.0050	ug/l							C-3620, QC-2
alpha-BHC	ND	0.010	ug/l							C-3620, QC-2
Aroclor 1016	ND	0.50	ug/l							C-3620, QC-2
Aroclor 1221	ND	0.50	ug/l							C-3620, QC-2
Aroclor 1232	ND	0.50	ug/l							C-3620, QC-2
Aroclor 1242	ND	0.50	ug/l							C-3620, QC-2
Aroclor 1248	ND	0.50	ug/l							C-3620, QC-2
Aroclor 1254	ND	0.50	ug/l							C-3620, QC-2
Aroclor 1260	ND	0.50	ug/l							C-3620, QC-2
beta-BHC	ND	0.0050	ug/l							C-3620, QC-2
Chlordane (tech)	ND	0.10	ug/l							C-3620, QC-2
delta-BHC	ND	0.0050	ug/l							C-3620, QC-2
Dieldrin	ND	0.010	ug/l							C-3620, QC-2
Endosulfan I	ND	0.020	ug/l							C-3620, QC-2
Endosulfan II	ND	0.010	ug/l							C-3620, QC-2
Endosulfan sulfate	ND	0.050	ug/l							C-3620, QC-2
Endrin	ND	0.010	ug/l							C-3620, QC-2
Endrin aldehyde	ND	0.010	ug/l							C-3620, QC-2
gamma-BHC (Lindane)	ND	0.020	ug/l							C-3620, QC-2
Heptachlor	ND	0.010	ug/l							C-3620, QC-2
Heptachlor epoxide	ND	0.010	ug/l							C-3620, QC-2
Mirex	ND	0.010	ug/l							C-3620, QC-2
Toxaphene	ND	0.50	ug/l							C-3620, QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0354*		*ug/l*	*0.100*		*35*	*33-133*			
Tetrachloro-meta-xylene	*0.0432*		*ug/l*	*0.100*		*43*	*32-130*			
LCS (W5C1741-BS1)			**Prepared: 03/24/25 Analyzed: 04/03/25**							
4,4´-DDD	0.0693	0.050	ug/l	0.100		69	48-130			

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1741 - EPA 608.3 (Continued)										
LCS (W5C1741-BS1)				**Prepared: 03/24/25**		**Analyzed: 04/03/25**				
4,4´-DDE	0.0772	0.050	ug/l	0.100		77	54-130			
4,4´-DDT	0.0772	0.010	ug/l	0.100		77	46-137			
Aldrin	0.0729	0.0050	ug/l	0.100		73	54-130			
alpha-BHC	0.0787	0.010	ug/l	0.100		79	49-130			
beta-BHC	0.0814	0.0050	ug/l	0.100		81	39-130			
delta-BHC	0.0794	0.0050	ug/l	0.100		79	51-130			
Dieldrin	0.0772	0.010	ug/l	0.100		77	58-130			
Endosulfan I	0.0796	0.020	ug/l	0.100		80	57-141			
Endosulfan II	0.0771	0.010	ug/l	0.100		77	22-171			
Endosulfan sulfate	0.0783	0.050	ug/l	0.100		78	38-132			
Endrin	0.0843	0.010	ug/l	0.100		84	51-130			
Endrin aldehyde	0.0647	0.010	ug/l	0.100		65	18-130			
gamma-BHC (Lindane)	0.0820	0.020	ug/l	0.100		82	43-130			
Heptachlor	0.0773	0.010	ug/l	0.100		77	43-130			
Heptachlor epoxide	0.0770	0.010	ug/l	0.100		77	57-132			
Methoxychlor	0.0744	0.020	ug/l	0.100		74	54-147			
Surrogate(s)										
Decachlorobiphenyl	*0.0716*		*ug/l*	*0.100*		*72*	*33-133*			
Tetrachloro-meta-xylene	*0.0711*		*ug/l*	*0.100*		*71*	*32-130*			
LCS (W5C1741-BS2)				**Prepared: 03/24/25**		**Analyzed: 04/16/25**				
4,4´-DDD	0.0608	0.050	ug/l	0.100		61	48-130			QC-2, C-3620
4,4´-DDE	0.0649	0.050	ug/l	0.100		65	54-130			C-3620, QC-2
4,4´-DDT	0.0662	0.010	ug/l	0.100		66	46-137			C-3620, QC-2
Aldrin	0.0586	0.0050	ug/l	0.100		59	54-130			C-3620, QC-2
alpha-BHC	0.0614	0.010	ug/l	0.100		61	49-130			C-3620, QC-2
beta-BHC	0.0657	0.0050	ug/l	0.100		66	39-130			C-3620, QC-2
delta-BHC	0.0654	0.0050	ug/l	0.100		65	51-130			C-3620, QC-2
Dieldrin	0.0619	0.010	ug/l	0.100		62	58-130			C-3620, QC-2
Endosulfan I	0.0667	0.020	ug/l	0.100		67	57-141			C-3620, QC-2
Endosulfan II	0.0686	0.010	ug/l	0.100		69	22-171			C-3620, QC-2
Endosulfan sulfate	0.0681	0.050	ug/l	0.100		68	38-132			C-3620, QC-2
Endrin	0.0661	0.010	ug/l	0.100		66	51-130			C-3620, QC-2
Endrin aldehyde	0.0522	0.010	ug/l	0.100		52	18-130			C-3620, QC-2
gamma-BHC (Lindane)	0.0628	0.020	ug/l	0.100		63	43-130			C-3620, 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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1741 - EPA 608.3 (Continued)										
LCS (W5C1741-BS2)			**Prepared: 03/24/25 Analyzed: 04/16/25**							
Heptachlor	0.0588	0.010	ug/l	0.100		59	43-130			C-3620, QC-2
Heptachlor epoxide	0.0627	0.010	ug/l	0.100		63	57-132			C-3620, QC-2
Methoxychlor	0.0684	0.020	ug/l	0.100		68	54-147			C-3620, QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0612*		*ug/l*	*0.100*		*61*	*33-133*			
Tetrachloro-meta-xylene	*0.0617*		*ug/l*	*0.100*		*62*	*32-130*			
LCS Dup (W5C1741-BSD1)			**Prepared: 03/24/25 Analyzed: 04/03/25**							
4,4´-DDD	0.0705	0.050	ug/l	0.100		71	48-130	2	30	
4,4´-DDE	0.0718	0.050	ug/l	0.100		72	54-130	7	30	
4,4´-DDT	0.0752	0.010	ug/l	0.100		75	46-137	3	30	
Aldrin	0.0708	0.0050	ug/l	0.100		71	54-130	3	30	
alpha-BHC	0.0722	0.010	ug/l	0.100		72	49-130	9	30	
beta-BHC	0.0768	0.0050	ug/l	0.100		77	39-130	6	30	
delta-BHC	0.0760	0.0050	ug/l	0.100		76	51-130	4	30	
Dieldrin	0.0716	0.010	ug/l	0.100		72	58-130	7	30	
Endosulfan I	0.0748	0.020	ug/l	0.100		75	57-141	6	30	
Endosulfan II	0.0758	0.010	ug/l	0.100		76	22-171	2	30	
Endosulfan sulfate	0.0771	0.050	ug/l	0.100		77	38-132	1	30	
Endrin	0.0791	0.010	ug/l	0.100		79	51-130	6	30	
Endrin aldehyde	0.0644	0.010	ug/l	0.100		64	18-130	0.5	30	
gamma-BHC (Lindane)	0.0756	0.020	ug/l	0.100		76	43-130	8	30	
Heptachlor	0.0732	0.010	ug/l	0.100		73	43-130	6	30	
Heptachlor epoxide	0.0716	0.010	ug/l	0.100		72	57-132	7	30	
Methoxychlor	0.0735	0.020	ug/l	0.100		73	54-147	1	30	
Surrogate(s)										
Decachlorobiphenyl	*0.0709*		*ug/l*	*0.100*		*71*	*33-133*			
Tetrachloro-meta-xylene	*0.0638*		*ug/l*	*0.100*		*64*	*32-130*			
LCS Dup (W5C1741-BSD2)			**Prepared: 03/24/25 Analyzed: 04/16/25**							
4,4´-DDD	0.0605	0.050	ug/l	0.100		60	48-130	0.6	30	C-3620, QC-2
4,4´-DDE	0.0626	0.050	ug/l	0.100		63	54-130	4	30	C-3620, QC-2
4,4´-DDT	0.0644	0.010	ug/l	0.100		64	46-137	3	30	C-3620, QC-2
Aldrin	0.0593	0.0050	ug/l	0.100		59	54-130	1	30	C-3620, QC-2
alpha-BHC	0.0580	0.010	ug/l	0.100		58	49-130	6	30	C-3620, QC-2
beta-BHC	0.0629	0.0050	ug/l	0.100		63	39-130	4	30	C-3620, QC-2
delta-BHC	0.0622	0.0050	ug/l	0.100		62	51-130	5	30	C-3620, 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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1741 - EPA 608.3 (Continued)										
LCS Dup (W5C1741-BSD2)				**Prepared: 03/24/25**	**Analyzed: 04/16/25**					
Dieldrin	0.0621	0.010	ug/l	0.100		62	58-130	0.2	30	C-3620, QC-2
Endosulfan I	0.0650	0.020	ug/l	0.100		65	57-141	3	30	C-3620, QC-2
Endosulfan II	0.0658	0.010	ug/l	0.100		66	22-171	4	30	C-3620, QC-2
Endosulfan sulfate	0.0668	0.050	ug/l	0.100		67	38-132	2	30	C-3620, QC-2
Endrin	0.0690	0.010	ug/l	0.100		69	51-130	4	30	C-3620, QC-2
Endrin aldehyde	0.0502	0.010	ug/l	0.100		50	18-130	4	30	C-3620, QC-2
gamma-BHC (Lindane)	0.0601	0.020	ug/l	0.100		60	43-130	4	30	C-3620, QC-2
Heptachlor	0.0586	0.010	ug/l	0.100		59	43-130	0.3	30	C-3620, QC-2
Heptachlor epoxide	0.0602	0.010	ug/l	0.100		60	57-132	4	30	C-3620, QC-2
Methoxychlor	0.0656	0.020	ug/l	0.100		66	54-147	4	30	C-3620, QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0635*		*ug/l*	*0.100*		*64*	*33-133*			
Tetrachloro-meta-xylene	*0.0579*		*ug/l*	*0.100*		*58*	*32-130*			

Quality Control Results (Continued)

Perchlorate by EPA 314.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1612 - EPA 314.0										
Blank (W5C1612-BLK1)				**Prepared: 03/21/25**	**Analyzed: 03/26/25**					
Perchlorate	ND	1.0	ug/l							
LCS (W5C1612-BS1)				**Prepared: 03/21/25**	**Analyzed: 03/26/25**					
Perchlorate	8.68	1.0	ug/l	10.0		87	85-115			
Matrix Spike (W5C1612-MS1)	**Source: 5B10012-05**			**Prepared: 03/21/25**	**Analyzed: 03/26/25**					
Perchlorate	9.33	1.0	ug/l	10.0	0.524	88	80-120			
Matrix Spike Dup (W5C1612-MSD1)	**Source: 5B10012-05**			**Prepared: 03/21/25**	**Analyzed: 03/26/25**					
Perchlorate	8.83	1.0	ug/l	10.0	0.524	83	80-120	6	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1605 - EPA 624.1										
Blank (W5C1605-BLK1)				**Prepared & Analyzed: 03/21/25**						
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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1605 - EPA 624.1 (Continued)										
Blank (W5C1605-BLK1)				**Prepared & Analyzed: 03/21/25**						
Vinyl chloride	ND	1.0	ug/l							
Surrogate(s)										
1,2-Dichloroethane-d4	*54.7*		*ug/l*	*50.0*		*109*	*82-125*			
4-Bromofluorobenzene	*50.6*		*ug/l*	*50.0*		*101*	*88-108*			
Toluene-d8	*51.5*		*ug/l*	*50.0*		*103*	*92-112*			
LCS (W5C1605-BS1)				**Prepared & Analyzed: 03/21/25**						
1,1,1-Trichloroethane	20.3	1.0	ug/l	20.0		102	52-162			
1,1,2,2-Tetrachloroethane	19.8	1.0	ug/l	20.0		99	46-157			
1,1,2-Trichloroethane	20.2	1.0	ug/l	20.0		101	52-150			
1,1-Dichloroethane	21.3	1.0	ug/l	20.0		107	59-155			
1,1-Dichloroethene	21.5	1.0	ug/l	20.0		107	0.1-234			
1,2-Dichloroethane	21.0	1.0	ug/l	20.0		105	49-155			
1,2-Dichloropropane	20.1	1.0	ug/l	20.0		100	0.1-210			
2-Butanone	20.0	5.0	ug/l	20.0		100	67-136			
2-Chloroethyl vinyl ether	18.9	1.0	ug/l	20.0		95	0.1-305			
2-Hexanone	19.1	5.0	ug/l	20.0		95	76-133			
4-Methyl-2-pentanone	19.9	5.0	ug/l	20.0		100	74-132			
Acetone	225	5.0	ug/l	200		112	60-147			
Acrolein	21.3	5.0	ug/l	20.0		106	49-152			
Acrylonitrile	19.7	2.0	ug/l	20.0		98	74-127			
Benzene	19.5	1.0	ug/l	20.0		98	37-151			
Bromodichloromethane	20.4	1.0	ug/l	20.0		102	35-155			
Bromoform	19.8	1.0	ug/l	20.0		99	45-169			
Bromomethane	23.5	1.0	ug/l	20.0		117	0.1-242			
Carbon Disulfide	21.2	1.0	ug/l	20.0		106	79-118			
Carbon tetrachloride	21.1	1.0	ug/l	20.0		106	70-140			
Chlorobenzene	20.1	1.0	ug/l	20.0		101	37-160			
Chloroethane	22.0	1.0	ug/l	20.0		110	14-230			
Chloroform	20.6	1.0	ug/l	20.0		103	51-138			
Chloromethane	22.4	1.0	ug/l	20.0		112	0.1-273			
cis-1,2-Dichloroethene	19.9	1.0	ug/l	20.0		99	85-121			
cis-1,3-Dichloropropene	20.6	1.0	ug/l	20.0		103	0.1-227			
Dibromochloromethane	20.3	1.0	ug/l	20.0		101	53-149			
Dichlorodifluoromethane (Freon 12)	21.8	1.0	ug/l	20.0		109	67-126			
Ethylbenzene	19.4	1.0	ug/l	20.0		97	37-162			
m,p-Xylene	19.5	1.0	ug/l	20.0		97	81-121			
m-Dichlorobenzene	20.0	1.0	ug/l	20.0		100	59-156			
Methyl tert-butyl ether (MTBE)	81.9	1.0	ug/l	80.0		102	80-128			
Methylene chloride	21.7	1.0	ug/l	20.0		108	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1605 - EPA 624.1 (Continued)										
LCS (W5C1605-BS1)				**Prepared & Analyzed: 03/21/25**						
o-Dichlorobenzene	20.3	1.0	ug/l	20.0		101	18-190			
o-Xylene	19.4	1.0	ug/l	20.0		97	84-121			
p-Dichlorobenzene	20.1	1.0	ug/l	20.0		101	18-190			
Tert-butyl alcohol	74.8	5.0	ug/l	80.0		93	53-144			
Tetrachloroethene	19.6	1.0	ug/l	20.0		98	64-148			
Toluene	20.2	1.0	ug/l	20.0		101	47-150			
trans-1,2-Dichloroethene	20.5	1.0	ug/l	20.0		102	54-156			
trans-1,3-Dichloropropene	20.4	1.0	ug/l	20.0		102	17-183			
Trichloroethene	19.2	1.0	ug/l	20.0		96	71-157			
Trichlorofluoromethane	23.1	1.0	ug/l	20.0		115	17-181			
Vinyl chloride	22.4	1.0	ug/l	20.0		112	0.1-251			
Surrogate(s)										
1,2-Dichloroethane-d4	*51.5*		*ug/l*	*50.0*		*103*	*82-125*			
4-Bromofluorobenzene	*50.1*		*ug/l*	*50.0*		*100*	*88-108*			
Toluene-d8	*50.1*		*ug/l*	*50.0*		*100*	*92-112*			
LCS Dup (W5C1605-BSD1)				**Prepared & Analyzed: 03/21/25**						
1,1,1-Trichloroethane	19.9	1.0	ug/l	20.0		100	52-162	2	25	
1,1,2,2-Tetrachloroethane	19.6	1.0	ug/l	20.0		98	46-157	0.9	25	
1,1,2-Trichloroethane	20.4	1.0	ug/l	20.0		102	52-150	0.7	25	
1,1-Dichloroethane	20.8	1.0	ug/l	20.0		104	59-155	3	25	
1,1-Dichloroethene	20.6	1.0	ug/l	20.0		103	0.1-234	4	25	
1,2-Dichloroethane	20.6	1.0	ug/l	20.0		103	49-155	2	25	
1,2-Dichloropropane	19.3	1.0	ug/l	20.0		97	0.1-210	4	25	
2-Butanone	19.5	5.0	ug/l	20.0		97	67-136	3	25	
2-Chloroethyl vinyl ether	18.9	1.0	ug/l	20.0		94	0.1-305	0.2	25	
2-Hexanone	19.0	5.0	ug/l	20.0		95	76-133	0.3	25	
4-Methyl-2-pentanone	19.6	5.0	ug/l	20.0		98	74-132	2	25	
Acetone	222	5.0	ug/l	200		111	60-147	1	25	
Acrolein	22.8	5.0	ug/l	20.0		114	49-152	7	25	
Acrylonitrile	20.0	2.0	ug/l	20.0		100	74-127	2	25	
Benzene	18.7	1.0	ug/l	20.0		94	37-151	4	25	
Bromodichloromethane	20.1	1.0	ug/l	20.0		101	35-155	1	25	
Bromoform	19.8	1.0	ug/l	20.0		99	45-169	0.1	25	
Bromomethane	22.7	1.0	ug/l	20.0		114	0.1-242	3	25	
Carbon Disulfide	20.1	1.0	ug/l	20.0		101	79-118	5	25	
Carbon tetrachloride	20.2	1.0	ug/l	20.0		101	70-140	4	25	
Chlorobenzene	19.8	1.0	ug/l	20.0		99	37-160	2	25	
Chloroethane	18.7	1.0	ug/l	20.0		93	14-230	16	25	
Chloroform	20.2	1.0	ug/l	20.0		101	51-138	2	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5C1605 - EPA 624.1 (Continued)										
LCS Dup (W5C1605-BSD1)				**Prepared & Analyzed: 03/21/25**						
Chloromethane	21.7	1.0	ug/l	20.0		109	0.1-273	3	25	
cis-1,2-Dichloroethene	18.8	1.0	ug/l	20.0		94	85-121	5	25	
cis-1,3-Dichloropropene	19.9	1.0	ug/l	20.0		100	0.1-227	3	25	
Dibromochloromethane	20.1	1.0	ug/l	20.0		100	53-149	0.9	25	
Dichlorodifluoromethane (Freon 12)	21.2	1.0	ug/l	20.0		106	67-126	3	25	
Ethylbenzene	18.6	1.0	ug/l	20.0		93	37-162	4	25	
m,p-Xylene	18.1	1.0	ug/l	20.0		90	81-121	7	25	
m-Dichlorobenzene	19.7	1.0	ug/l	20.0		98	59-156	2	25	
Methyl tert-butyl ether (MTBE)	80.3	1.0	ug/l	80.0		100	80-128	2	25	
Methylene chloride	21.6	1.0	ug/l	20.0		108	0.1-221	0.4	25	
o-Dichlorobenzene	19.5	1.0	ug/l	20.0		98	18-190	4	25	
o-Xylene	18.3	1.0	ug/l	20.0		91	84-121	6	25	
p-Dichlorobenzene	19.5	1.0	ug/l	20.0		98	18-190	3	25	
Tert-butyl alcohol	73.4	5.0	ug/l	80.0		92	53-144	2	25	
Tetrachloroethene	18.5	1.0	ug/l	20.0		92	64-148	6	25	
Toluene	19.3	1.0	ug/l	20.0		96	47-150	5	25	
trans-1,2-Dichloroethene	20.0	1.0	ug/l	20.0		100	54-156	3	25	
trans-1,3-Dichloropropene	20.7	1.0	ug/l	20.0		103	17-183	1	25	
Trichloroethene	18.7	1.0	ug/l	20.0		94	71-157	2	25	
Trichlorofluoromethane	22.0	1.0	ug/l	20.0		110	17-181	5	25	
Vinyl chloride	21.2	1.0	ug/l	20.0		106	0.1-251	6	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*53.1*		*ug/l*	*50.0*		*106*	*82-125*			
4-Bromofluorobenzene	*50.4*		*ug/l*	*50.0*		*101*	*88-108*			
Toluene-d8	*49.7*		*ug/l*	*50.0*		*99*	*92-112*			

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Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
BS-04	The recovery of this analyte in LCS or LCSD was outside control limit. Sample was accepted based on the remaining LCS, LCSD or LCS-LL.
C-3620	The "Florisil Cleanup" was performed to the sample.
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.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
%REC	Percent Recovery
Dil	Dilution
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.

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Analyses Accreditation Summary

Analyte	CAS #	Not By ELAP-CA	Not By NELAP OR	Not ANAB ISO 17025
EPA 608.3 in Water				
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	●		●
EPA 624.1 in Water				
Chloromethane	74-87-3		●	
Bromomethane	74-83-9		●	
Chloroethane	75-00-3		●	
2-Hexanone	591-78-6	●		●
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			●
EPA 625.1 in Water				
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		●	

This laboratory report may contain results for target analytes that are not currently certifiable by the California Environmental Laboratory Accreditation Program (ELAP). ELAP is the state agency that accredits environmental testing laboratories in California<https://www.waterboards.ca.gov/drinking_water/certlic/labs/index.html>. ELAP certification is required for laboratories that perform testing for regulatory purposes, such as drinking water, wastewater, hazardous waste, and ambient water<https://www.waterboards.ca.gov/drinking_water/certlic/labs/apply.html>. However, ELAP does not certify all analytes or methods that a laboratory may offer. Therefore, some of the target analytes in this report may not have been tested under ELAP-approved methods or quality control procedures. The results for these analytes are provided for informational purposes only and should not be usea for regulatory compliance or decision making. Please contact the laboratory if you have any questions or concerns about the report.

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

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

2025 CWRF Annual

JOB NUMBER

570-223292-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization

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Authorized for release by
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Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

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.
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.
☼	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

Job Narrative
570-223292-1

REVISION

The report being provided is a revision of the original report sent on 3/31/2025. The report (revision 2) is being revised to add arsenic result under method 200.8 per client's request.

Report revision history
Revision 1 - 6/12/2025 - Reason - revised to add selenium result per client's request.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 3/20/2025 6:00 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 4.4°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.

Detection Summary

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

Client Sample ID: CWRF Effluent

Lab Sample ID: 570-223292-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.040		0.010	0.00073	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.0060	J	0.050	0.0016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.020	J	0.25	0.0046	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.63	J	1.0	0.16	ug/L	1		200.8	Total Recoverable
Antimony	0.70	J	1.0	0.51	ug/L	1		200.8	Total Recoverable
Selenium	1.3	J	2.0	0.52	ug/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: CWRF Effluent
Date Collected: 03/19/25 07:00
Date Received: 03/20/25 18:00

Lab Sample ID: 570-223292-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.018	mg/L		03/24/25 07:29	03/24/25 18:01	1
Arsenic	ND		0.10	0.0097	mg/L		03/24/25 07:29	03/24/25 18:01	1
Barium	**0.040**		0.010	0.00073	mg/L		03/24/25 07:29	03/24/25 18:01	1
Chromium	ND		0.050	0.0030	mg/L		03/24/25 07:29	03/24/25 18:01	1
Copper	**0.0060**	**J**	0.050	0.0016	mg/L		03/24/25 07:29	03/24/25 18:01	1
Lead	ND		0.050	0.0060	mg/L		03/24/25 07:29	03/24/25 18:01	1
Nickel	ND		0.050	0.0015	mg/L		03/24/25 07:29	03/24/25 18:01	1
Selenium	ND		0.10	0.012	mg/L		03/24/25 07:29	03/24/25 18:01	1
Silver	ND		0.010	0.0034	mg/L		03/24/25 07:29	03/24/25 18:01	1
Zinc	**0.020**	**J**	0.25	0.0046	mg/L		03/24/25 07:29	03/24/25 18:01	1

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

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

Client Sample ID: CWRF Effluent
Date Collected: 03/19/25 07:00
Date Received: 03/20/25 18:00

Lab Sample ID: 570-223292-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.63**	**J**	1.0	0.16	ug/L		03/24/25 08:01	03/24/25 13:15	1
Beryllium	ND		0.50	0.26	ug/L		03/24/25 08:01	03/24/25 13:15	1
Cadmium	ND		1.0	0.13	ug/L		03/24/25 08:01	03/24/25 13:15	1
Antimony	**0.70**	**J**	1.0	0.51	ug/L		03/24/25 08:01	03/24/25 13:15	1
Selenium	**1.3**	**J**	2.0	0.52	ug/L		03/24/25 08:01	03/24/25 13:15	1
Thallium	ND		1.0	0.11	ug/L		03/24/25 08:01	03/24/25 13:15	1

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: CWRF Effluent
Date Collected: 03/19/25 07:00
Date Received: 03/20/25 18:00

Lab Sample ID: 570-223292-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/24/25 09:49	03/26/25 13:02	1

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

General Chemistry

Client Sample ID: CWRF Effluent
Date Collected: 03/19/25 07:00
Date Received: 03/20/25 18:00

Lab Sample ID: 570-223292-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.7	ug/L			03/31/25 16:18	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-548504/1-A
Matrix: Water
Analysis Batch: 548878

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 548504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.018	mg/L		03/24/25 07:29	03/24/25 15:34	1
Arsenic	ND		0.10	0.0097	mg/L		03/24/25 07:29	03/24/25 15:34	1
Barium	ND		0.010	0.00073	mg/L		03/24/25 07:29	03/24/25 15:34	1
Chromium	ND		0.050	0.0030	mg/L		03/24/25 07:29	03/24/25 15:34	1
Copper	ND		0.050	0.0016	mg/L		03/24/25 07:29	03/24/25 15:34	1
Lead	ND		0.050	0.0060	mg/L		03/24/25 07:29	03/24/25 15:34	1
Nickel	ND		0.050	0.0015	mg/L		03/24/25 07:29	03/24/25 15:34	1
Selenium	ND		0.10	0.012	mg/L		03/24/25 07:29	03/24/25 15:34	1
Silver	ND		0.010	0.0034	mg/L		03/24/25 07:29	03/24/25 15:34	1
Zinc	ND		0.25	0.0046	mg/L		03/24/25 07:29	03/24/25 15:34	1

Lab Sample ID: LCS 570-548504/2-A
Matrix: Water
Analysis Batch: 548878

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 548504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.500	0.501		mg/L		100	85 - 115
Arsenic	0.500	0.499		mg/L		100	85 - 115
Barium	0.500	0.499		mg/L		100	85 - 115
Chromium	0.500	0.504		mg/L		101	85 - 115
Copper	0.500	0.502		mg/L		100	85 - 115
Lead	0.500	0.505		mg/L		101	85 - 115
Nickel	0.500	0.509		mg/L		102	85 - 115
Selenium	0.500	0.510		mg/L		102	85 - 115
Silver	0.250	0.234		mg/L		94	85 - 115
Zinc	0.500	0.503		mg/L		101	85 - 115

Lab Sample ID: LCSD 570-548504/3-A
Matrix: Water
Analysis Batch: 548878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 548504

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.500	0.493	J	mg/L		99	85 - 115	2	20
Arsenic	0.500	0.493		mg/L		99	85 - 115	1	20
Barium	0.500	0.497		mg/L		99	85 - 115	0	20
Chromium	0.500	0.502		mg/L		100	85 - 115	0	20
Copper	0.500	0.499		mg/L		100	85 - 115	0	20
Lead	0.500	0.501		mg/L		100	85 - 115	1	20
Nickel	0.500	0.509		mg/L		102	85 - 115	0	20
Selenium	0.500	0.501		mg/L		100	85 - 115	2	20
Silver	0.250	0.234		mg/L		93	85 - 115	0	20
Zinc	0.500	0.500		mg/L		100	85 - 115	1	20

Lab Sample ID: 570-223309-B-1-B MS
Matrix: Water
Analysis Batch: 548878

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 548504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	45		0.500	44.7	4	mg/L		-32	80 - 120

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-223309-B-1-B MS
Matrix: Water
Analysis Batch: 548878

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 548504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		0.500	0.515		mg/L		103	80 - 120
Barium	ND		0.500	0.499		mg/L		100	80 - 120
Chromium	0.0044	J	0.500	0.505		mg/L		100	80 - 120
Copper	0.0023	J	0.500	0.531		mg/L		106	80 - 120
Lead	ND		0.500	0.506		mg/L		101	80 - 120
Nickel	0.0028	J	0.500	0.512		mg/L		102	80 - 120
Selenium	ND		0.500	0.513		mg/L		103	80 - 120
Silver	ND		0.250	0.239		mg/L		96	80 - 120
Zinc	0.0068	J	0.500	0.524		mg/L		103	80 - 120

Lab Sample ID: 570-223309-B-1-C MSD
Matrix: Water
Analysis Batch: 548878

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 548504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	45		0.500	43.8	4	mg/L		-212	80 - 120	2	20
Arsenic	ND		0.500	0.484		mg/L		97	80 - 120	6	20
Barium	ND		0.500	0.476		mg/L		95	80 - 120	5	20
Chromium	0.0044	J	0.500	0.479		mg/L		95	80 - 120	5	20
Copper	0.0023	J	0.500	0.505		mg/L		101	80 - 120	5	20
Lead	ND		0.500	0.482		mg/L		96	80 - 120	5	20
Nickel	0.0028	J	0.500	0.491		mg/L		98	80 - 120	4	20
Selenium	ND		0.500	0.485		mg/L		97	80 - 120	6	20
Silver	ND		0.250	0.228		mg/L		91	80 - 120	5	20
Zinc	0.0068	J	0.500	0.501		mg/L		99	80 - 120	5	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-548515/1-A
Matrix: Water
Analysis Batch: 548803

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 548515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.16	ug/L		03/24/25 08:01	03/24/25 13:27	1
Beryllium	ND		0.50	0.26	ug/L		03/24/25 08:01	03/24/25 13:27	1
Cadmium	ND		1.0	0.13	ug/L		03/24/25 08:01	03/24/25 13:27	1
Selenium	ND		2.0	0.52	ug/L		03/24/25 08:01	03/24/25 13:27	1
Thallium	ND		1.0	0.11	ug/L		03/24/25 08:01	03/24/25 13:27	1

Lab Sample ID: LCS 570-548515/2-A
Matrix: Water
Analysis Batch: 548803

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 548515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	80.0	80.6		ug/L		101	85 - 115
Beryllium	80.0	82.1		ug/L		103	85 - 115
Cadmium	80.0	81.5		ug/L		102	85 - 115
Selenium	80.0	81.5		ug/L		102	85 - 115
Thallium	80.0	80.9		ug/L		101	85 - 115

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

Lab Sample ID: LCSD 570-548515/3-A
Matrix: Water
Analysis Batch: 548803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 548515

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			80.0	83.8		ug/L		105	85 - 115	4	20
Beryllium			80.0	85.1		ug/L		106	85 - 115	4	20
Cadmium			80.0	84.6		ug/L		106	85 - 115	4	20
Selenium			80.0	84.9		ug/L		106	85 - 115	4	20
Thallium			80.0	84.2		ug/L		105	85 - 115	4	20

Lab Sample ID: 570-223360-A-1-B MS
Matrix: Water
Analysis Batch: 548803

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 548515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		80.0	82.9		ug/L		104	80 - 120
Beryllium	ND		80.0	85.4		ug/L		107	80 - 120
Cadmium	ND		80.0	83.4		ug/L		104	80 - 120
Selenium	ND		80.0	82.6		ug/L		103	80 - 120
Thallium	ND		80.0	84.6		ug/L		106	80 - 120

Lab Sample ID: 570-223360-A-1-C MSD
Matrix: Water
Analysis Batch: 548803

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 548515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		80.0	84.0		ug/L		105	80 - 120	1	20
Beryllium	ND		80.0	86.9		ug/L		109	80 - 120	2	20
Cadmium	ND		80.0	84.3		ug/L		105	80 - 120	1	20
Selenium	ND		80.0	83.6		ug/L		104	80 - 120	1	20
Thallium	ND		80.0	84.9		ug/L		106	80 - 120	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-548601/1-A
Matrix: Water
Analysis Batch: 549841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 548601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/24/25 09:49	03/26/25 12:01	1

Lab Sample ID: LCS 570-548601/2-A
Matrix: Water
Analysis Batch: 549841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 548601

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00800	0.00824		mg/L		103	85 - 115

Lab Sample ID: LCSD 570-548601/3-A
Matrix: Water
Analysis Batch: 549841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 548601

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00800	0.00806		mg/L		101	85 - 115	2	10

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: 570-222910-C-1-B MS
Matrix: Water
Analysis Batch: 549841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 548601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00800	0.00822		mg/L		103	85 - 115

Lab Sample ID: 570-222910-C-1-C MSD
Matrix: Water
Analysis Batch: 549841

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 548601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00796		mg/L		100	85 - 115	3	10

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

Lab Sample ID: MB 570-551849/11
Matrix: Water
Analysis Batch: 551849

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	2.7	ug/L			03/31/25 15:14	1

Lab Sample ID: LCS 570-551849/12
Matrix: Water
Analysis Batch: 551849

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	257		ug/L		103	90 - 110

Lab Sample ID: LCSD 570-551849/13
Matrix: Water
Analysis Batch: 551849

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	257		ug/L		103	90 - 110	0	20

Lab Sample ID: MRL 570-551849/10
Matrix: Water
Analysis Batch: 551849

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	5.25		ug/L		105	50 - 150

Lab Sample ID: 570-222793-N-1 MS
Matrix: Water
Analysis Batch: 551849

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	224		ug/L		90	70 - 130

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

Lab Sample ID: 570-222793-N-1 MSD
Matrix: Water
Analysis Batch: 551849

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	209		ug/L		84	70 - 130	7	30

Metals

Prep Batch: 548504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total Recoverable	Water	200.7	
MB 570-548504/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-548504/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-548504/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-223309-B-1-B MS	Matrix Spike	Total Recoverable	Water	200.7	
570-223309-B-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Prep Batch: 548515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total Recoverable	Water	200.8	
MB 570-548515/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-548515/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-548515/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
570-223360-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	
570-223360-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Prep Batch: 548601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total/NA	Water	245.1	
MB 570-548601/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-548601/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-548601/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-222910-C-1-B MS	Matrix Spike	Total/NA	Water	245.1	
570-222910-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 548803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total Recoverable	Water	200.8	548515
MB 570-548515/1-A	Method Blank	Total Recoverable	Water	200.8	548515
LCS 570-548515/2-A	Lab Control Sample	Total Recoverable	Water	200.8	548515
LCSD 570-548515/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	548515
570-223360-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	548515
570-223360-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	548515

Analysis Batch: 548878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-548504/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	548504
LCS 570-548504/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	548504
LCSD 570-548504/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	548504
570-223309-B-1-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	548504
570-223309-B-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	548504

Analysis Batch: 548919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total Recoverable	Water	200.7 Rev 4.4	548504

Analysis Batch: 549841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total/NA	Water	245.1	548601
MB 570-548601/1-A	Method Blank	Total/NA	Water	245.1	548601
LCS 570-548601/2-A	Lab Control Sample	Total/NA	Water	245.1	548601

Metals (Continued)

Analysis Batch: 549841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-548601/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	548601
570-222910-C-1-B MS	Matrix Spike	Total/NA	Water	245.1	548601
570-222910-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	548601

General Chemistry

Analysis Batch: 551849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-223292-1	CWRF Effluent	Total/NA	Water	Kelada 01	
MB 570-551849/11	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-551849/12	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-551849/13	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-551849/10	Lab Control Sample	Total/NA	Water	Kelada 01	
570-222793-N-1 MS	Matrix Spike	Total/NA	Water	Kelada 01	
570-222793-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

Client Sample ID: CWRF Effluent

Date Collected: 03/19/25 07:00
Date Received: 03/20/25 18:00

Lab Sample ID: 570-223292-1

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	548504	03/24/25 07:29	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			548919	03/24/25 18:01	P1R	EET CAL 4
	Instrument ID: ICP11									
Total Recoverable	Prep	200.8			50 mL	50 mL	548515	03/24/25 08:01	JP8N	EET CAL 4
Total Recoverable	Analysis	200.8		1			548803	03/24/25 13:15	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	245.1			25 mL	50 mL	548601	03/24/25 09:49	YD2H	EET CAL 4
Total/NA	Analysis	245.1		1			549841	03/26/25 13:02	RL6Q	EET CAL 4
	Instrument ID: HG9									
Total/NA	Analysis	Kelada 01		1	8 mL	8 mL	551849	03/31/25 16:18	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
Job ID: 570-223292-1
Project/Site: 2025 CWRF Annual

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-01-25
Oregon	NELAP	4175	07-31-25

Method Summary

Client: Encina Wastewater Authority
Project/Site: 2025 CWRF Annual

Job ID: 570-223292-1

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: 2025 CWRF Annual

Job ID: 570-223292-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-223292-1	CWRF Effluent	Water	03/19/25 07:00	03/20/25 18:00	California

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins Environment Testing America

223292

Client Information	Sampler: AP	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority				Job #:
Address: 6200 Avenida Encinas	Due Date Requested:			
City: Carlsbad	TAT Requested (days): 10 Working Days			
State, Zip: California, 92011				
Phone: 760-268-8801	PO #: 20250030			
Email: rachael@encinajpa.com	WO #:			
Project Name: 2025 CWRF Annual	Project #:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8 Low Level Sb	200.8 Be, Cd, Thallium		Total Cyanide SM4500-CN C/E		200.7 Al, As, Ba, Cr, Cu, Pb, Ni, Se, Ag, Zn			EPA 245.1 Mercury					Total Number of containers	Special Instructions/Note:
CWRF Effluent	3/19/25	0700	C	WW			X	X													1	D
																						* Please do not dilute any metals samples*
CWRF Effluent	3/19/25	0700	C	WW						X											2	B
CWRF Effluent	3/19/25	0700	C	WW								X									1	D
																						* Please do not dilute any metals samples*
CWRF Effluent	3/19/25	0700	C	WW												X					1	D
																						* Please do not dilute any metals samples*

570-223292 Chain of Custody

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/20/25 1145	ENA		3-20-25 1145	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3-20-25 1400	EC		3-20-25 1800	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR 92 4.4/4.4

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-223292-1

Login Number: 223292
List Number: 1
Creator: Vitente, Precy

List Source: Eurofins Calscience

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

February 13, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2501225

Ms. Rachel Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Dear Ms. Morgan,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on January 31, 2025 under your Project Name 'CWRF and EWA Dioxins'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2501225
Case Narrative

Sample Condition on Receipt:

Three aqueous samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 1613B

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-DIOXIN GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limit in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

TABLE OF CONTENTS

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2501225-01	Encina EFFLUENT	29-Jan-25 08:20	31-Jan-25 09:05	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
2501225-02	CWRF EFFLUENT	29-Jan-25 08:45	31-Jan-25 09:05	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
2501225-03	Encina Influent	29-Jan-25 08:12	31-Jan-25 09:05	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1613B

Client Data
Name: Encina Wastewater Authority
Project: CWRF and EWA Dioxins
Matrix: Aqueous

Laboratory Data
Lab Sample: B25B058-BLK1
QC Batch: B25B058
Sample Size: 1.00 L
Date Extracted: 07-Feb-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.652	3.92		5.00		10-Feb-25 18:14	1
1,2,3,7,8-PeCDD	ND	1.35	8.32		25.0		10-Feb-25 18:14	1
1,2,3,4,7,8-HxCDD	ND	1.40	6.58		25.0		10-Feb-25 18:14	1
1,2,3,6,7,8-HxCDD	ND	1.85	5.81		25.0		10-Feb-25 18:14	1
1,2,3,7,8,9-HxCDD	ND	1.51	5.99		25.0		10-Feb-25 18:14	1
1,2,3,4,6,7,8-HpCDD	ND	1.57	5.53		25.0		10-Feb-25 18:14	1
OCDD	ND	3.42	16.3		50.0		10-Feb-25 18:14	1
2,3,7,8-TCDF	ND	0.598	1.74		5.00		10-Feb-25 18:14	1
1,2,3,7,8-PeCDF	ND	0.838	6.71		25.0		10-Feb-25 18:14	1
2,3,4,7,8-PeCDF	ND	0.875	7.55		25.0		10-Feb-25 18:14	1
1,2,3,4,7,8-HxCDF	ND	0.781	6.81		25.0		10-Feb-25 18:14	1
1,2,3,6,7,8-HxCDF	ND	0.769	6.11		25.0		10-Feb-25 18:14	1
2,3,4,6,7,8-HxCDF	ND	0.981	5.93		25.0		10-Feb-25 18:14	1
1,2,3,7,8,9-HxCDF	ND	1.20	6.34		25.0		10-Feb-25 18:14	1
1,2,3,4,6,7,8-HpCDF	ND	0.762	6.28		25.0		10-Feb-25 18:14	1
1,2,3,4,7,8,9-HpCDF	ND	1.09	7.33		25.0		10-Feb-25 18:14	1
OCDF	ND	4.09	13.6		50.0		10-Feb-25 18:14	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00							
Totals								
Total TCDD	ND	0.652			5.00			
Total PeCDD	ND	1.35			25.0			
Total HxCDD	ND	1.85			25.0			
Total HpCDD	ND	1.57			25.0			
Total TCDF	ND	0.598			5.00			
Total PeCDF	ND	0.875			25.0			
Total HxCDF	ND	1.20			25.0			
Total HpCDF	ND	1.09			25.0			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	88.6	25 - 164		10-Feb-25 18:14	1
13C-1,2,3,7,8-PeCDD	IS	65.2	25 - 181		10-Feb-25 18:14	1
13C-1,2,3,4,7,8-HxCDD	IS	81.3	32 - 141		10-Feb-25 18:14	1
13C-1,2,3,6,7,8-HxCDD	IS	67.1	28 - 130		10-Feb-25 18:14	1
13C-1,2,3,7,8,9-HxCDD	IS	83.1	32 - 141		10-Feb-25 18:14	1
13C-1,2,3,4,6,7,8-HpCDD	IS	73.8	23 - 140		10-Feb-25 18:14	1
13C-OCDD	IS	53.0	17 - 157		10-Feb-25 18:14	1
13C-2,3,7,8-TCDF	IS	85.7	24 - 169		10-Feb-25 18:14	1
13C-1,2,3,7,8-PeCDF	IS	81.0	24 - 185		10-Feb-25 18:14	1
13C-2,3,4,7,8-PeCDF	IS	70.6	21 - 178		10-Feb-25 18:14	1
13C-1,2,3,4,7,8-HxCDF	IS	86.2	26 - 152		10-Feb-25 18:14	1
13C-1,2,3,6,7,8-HxCDF	IS	87.6	26 - 123		10-Feb-25 18:14	1
13C-2,3,4,6,7,8-HxCDF	IS	85.5	28 - 136		10-Feb-25 18:14	1
13C-1,2,3,7,8,9-HxCDF	IS	86.0	29 - 147		10-Feb-25 18:14	1
13C-1,2,3,4,6,7,8-HpCDF	IS	82.1	28 - 143		10-Feb-25 18:14	1
13C-1,2,3,4,7,8,9-HpCDF	IS	83.0	26 - 138		10-Feb-25 18:14	1
13C-OCDF	IS	36.6	17 - 157		10-Feb-25 18:14	1
37Cl-2,3,7,8-TCDD	CRS	97.4	35 - 197		10-Feb-25 18:14	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

Sample ID: OPR **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: CWRF and EWA Dioxins
Matrix: Aqueous

Laboratory Data
Lab Sample: B25B058-BS1
QC Batch: B25B058 Date Extracted: 07-Feb-25 08:13
Sample Size: 1.00 L Column: ZB-DIOXIN

Analyte	Amt Found (pg/L)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	178	200	89.1	67-158		10-Feb-25 16:43	1
1,2,3,7,8-PeCDD	968	1000	96.8	70-142		10-Feb-25 16:43	1
1,2,3,4,7,8-HxCDD	952	1000	95.2	70-164		10-Feb-25 16:43	1
1,2,3,6,7,8-HxCDD	958	1000	95.8	76-134		10-Feb-25 16:43	1
1,2,3,7,8,9-HxCDD	956	1000	95.6	64-162		10-Feb-25 16:43	1
1,2,3,4,6,7,8-HpCDD	941	1000	94.1	70-140		10-Feb-25 16:43	1
OCDD	1990	2000	99.3	78-144		10-Feb-25 16:43	1
2,3,7,8-TCDF	191	200	95.5	75-158		10-Feb-25 16:43	1
1,2,3,7,8-PeCDF	1090	1000	109	80-134		10-Feb-25 16:43	1
2,3,4,7,8-PeCDF	1120	1000	112	68-160		10-Feb-25 16:43	1
1,2,3,4,7,8-HxCDF	973	1000	97.3	72-134		10-Feb-25 16:43	1
1,2,3,6,7,8-HxCDF	956	1000	95.6	84-130		10-Feb-25 16:43	1
2,3,4,6,7,8-HxCDF	952	1000	95.2	70-156		10-Feb-25 16:43	1
1,2,3,7,8,9-HxCDF	961	1000	96.1	78-130		10-Feb-25 16:43	1
1,2,3,4,6,7,8-HpCDF	943	1000	94.3	82-122		10-Feb-25 16:43	1
1,2,3,4,7,8,9-HpCDF	913	1000	91.3	78-138		10-Feb-25 16:43	1
OCDF	1950	2000	97.5	63-170		10-Feb-25 16:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	77.2	20-175		10-Feb-25 16:43	1
13C-1,2,3,7,8-PeCDD	IS	66.1	21-227		10-Feb-25 16:43	1
13C-1,2,3,4,7,8-HxCDD	IS	71.7	21-193		10-Feb-25 16:43	1
13C-1,2,3,6,7,8-HxCDD	IS	73.6	25-163		10-Feb-25 16:43	1
13C-1,2,3,7,8,9-HxCDD	IS	70.5	21-193		10-Feb-25 16:43	1
13C-1,2,3,4,6,7,8-HpCDD	IS	60.8	26-166		10-Feb-25 16:43	1
13C-OCDD	IS	43.6	13-199		10-Feb-25 16:43	1
13C-2,3,7,8-TCDF	IS	76.2	22-152		10-Feb-25 16:43	1
13C-1,2,3,7,8-PeCDF	IS	66.8	21-192		10-Feb-25 16:43	1
13C-2,3,4,7,8-PeCDF	IS	64.4	13-328		10-Feb-25 16:43	1
13C-1,2,3,4,7,8-HxCDF	IS	75.8	19-202		10-Feb-25 16:43	1
13C-1,2,3,6,7,8-HxCDF	IS	76.8	21-159		10-Feb-25 16:43	1
13C-2,3,4,6,7,8-HxCDF	IS	75.3	22-176		10-Feb-25 16:43	1
13C-1,2,3,7,8,9-HxCDF	IS	71.6	17-205		10-Feb-25 16:43	1
13C-1,2,3,4,6,7,8-HpCDF	IS	67.4	21-158		10-Feb-25 16:43	1
13C-1,2,3,4,7,8,9-HpCDF	IS	67.1	20-186		10-Feb-25 16:43	1
13C-OCDF	IS	53.6	13-199		10-Feb-25 16:43	1
37Cl-2,3,7,8-TCDD	CRS	95.5	31-191		10-Feb-25 16:43	1

Sample ID: Encina EFFLUENT **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: CWRF and EWA Dioxins
Matrix: Aqueous
Date Collected: 29-Jan-25 08:20

Laboratory Data
Lab Sample: 2501225-01
QC Batch: B25B058
Sample Size: 1.03 L
Date Received: 31-Jan-25 09:05
Date Extracted: 07-Feb-25
Column: ZB-DIOXIN

estimated dl est max possible

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.738	3.81		4.86		11-Feb-25 20:18	1
1,2,3,7,8-PeCDD	ND	1.52	8.09		24.3		11-Feb-25 20:18	1
1,2,3,4,7,8-HxCDD	ND	1.91	6.40		24.3		11-Feb-25 20:18	1
1,2,3,6,7,8-HxCDD	ND	1.94	5.65		24.3		11-Feb-25 20:18	1
1,2,3,7,8,9-HxCDD	ND	2.04	5.82		24.3		11-Feb-25 20:18	1
1,2,3,4,6,7,8-HpCDD	ND	2.03	5.37		24.3		11-Feb-25 20:18	1
OCDD	ND		15.8	9.03	48.6		11-Feb-25 20:18	1
2,3,7,8-TCDF	ND	0.782	1.69		4.86		11-Feb-25 20:18	1
1,2,3,7,8-PeCDF	ND	2.10	6.52		24.3		11-Feb-25 20:18	1
2,3,4,7,8-PeCDF	ND	1.97	7.34		24.3		11-Feb-25 20:18	1
1,2,3,4,7,8-HxCDF	ND	4.13	19.9		72.9	D	11-Feb-25 21:04	3
1,2,3,6,7,8-HxCDF	ND	4.26	17.8		72.9	D	11-Feb-25 21:04	3
2,3,4,6,7,8-HxCDF	ND	4.47	17.3		72.9	D	11-Feb-25 21:04	3
1,2,3,7,8,9-HxCDF	ND	6.39	18.5		72.9	D	11-Feb-25 21:04	3
1,2,3,4,6,7,8-HpCDF	ND	1.72	6.10		24.3		11-Feb-25 20:18	1
1,2,3,4,7,8,9-HpCDF	ND	2.40	7.12		24.3		11-Feb-25 20:18	1
OCDF	ND	4.06	13.2		48.6		11-Feb-25 20:18	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00							
Totals								
Total TCDD	ND	0.738			4.86			
Total PeCDD	ND	1.52			24.3			
Total HxCDD	ND	2.04			24.3			
Total HpCDD	ND	2.03			24.3			
Total TCDF	ND	0.782			4.86			
Total PeCDF	ND	2.10			24.3			
Total HxCDF	ND	4.86			24.3			
Total HpCDF	ND	2.40			24.3			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	66.7	25 - 164		11-Feb-25 20:18	1
13C-1,2,3,7,8-PeCDD	IS	56.3	25 - 181		11-Feb-25 20:18	1
13C-1,2,3,4,7,8-HxCDD	IS	54.3	32 - 141		11-Feb-25 20:18	1
13C-1,2,3,6,7,8-HxCDD	IS	55.8	28 - 130		11-Feb-25 20:18	1
13C-1,2,3,7,8,9-HxCDD	IS	54.1	32 - 141		11-Feb-25 20:18	1
13C-1,2,3,4,6,7,8-HpCDD	IS	47.4	23 - 140		11-Feb-25 20:18	1
13C-OCDD	IS	35.2	17 - 157		11-Feb-25 20:18	1
13C-2,3,7,8-TCDF	IS	67.9	24 - 169		11-Feb-25 20:18	1
13C-1,2,3,7,8-PeCDF	IS	51.9	24 - 185		11-Feb-25 20:18	1
13C-2,3,4,7,8-PeCDF	IS	51.3	21 - 178		11-Feb-25 20:18	1
13C-1,2,3,4,7,8-HxCDF	IS	56.1	26 - 152	D	11-Feb-25 21:04	3
13C-1,2,3,6,7,8-HxCDF	IS	57.0	26 - 123	D	11-Feb-25 21:04	3
13C-2,3,4,6,7,8-HxCDF	IS	59.3	28 - 136	D	11-Feb-25 21:04	3
13C-1,2,3,7,8,9-HxCDF	IS	53.9	29 - 147	D	11-Feb-25 21:04	3
13C-1,2,3,4,6,7,8-HpCDF	IS	48.1	28 - 143		11-Feb-25 20:18	1
13C-1,2,3,4,7,8,9-HpCDF	IS	47.0	26 - 138		11-Feb-25 20:18	1
13C-OCDF	IS	39.1	17 - 157		11-Feb-25 20:18	1
37Cl-2,3,7,8-TCDD	CRS	98.9	35 - 197		11-Feb-25 20:18	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

Sample ID: CWRF EFFLUENT **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: CWRF and EWA Dioxins
Matrix: Aqueous
Date Collected: 29-Jan-25 08:45

Laboratory Data
Lab Sample: 2501225-02
QC Batch: B25B058
Sample Size: 1.03 L
Date Received: 31-Jan-25 09:05
Date Extracted: 07-Feb-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.686	3.80		4.84		11-Feb-25 21:50	1
1,2,3,7,8-PeCDD	ND	1.19	8.06		24.2		11-Feb-25 21:50	1
1,2,3,4,7,8-HxCDD	ND	1.05	6.37		24.2		11-Feb-25 21:50	1
1,2,3,6,7,8-HxCDD	ND	1.05	5.63		24.2		11-Feb-25 21:50	1
1,2,3,7,8,9-HxCDD	ND	1.13	5.80		24.2		11-Feb-25 21:50	1
1,2,3,4,6,7,8-HpCDD	ND	1.69	5.36		24.2		11-Feb-25 21:50	1
OCDD	ND	3.55	15.8		48.4		11-Feb-25 21:50	1
2,3,7,8-TCDF	ND	0.563	1.69		4.84		11-Feb-25 21:50	1
1,2,3,7,8-PeCDF	ND	0.980	6.50		24.2		11-Feb-25 21:50	1
2,3,4,7,8-PeCDF	ND	0.948	7.31		24.2		11-Feb-25 21:50	1
1,2,3,4,7,8-HxCDF	ND	0.770	6.60		24.2		11-Feb-25 21:50	1
1,2,3,6,7,8-HxCDF	ND	0.792	5.92		24.2		11-Feb-25 21:50	1
2,3,4,6,7,8-HxCDF	ND	0.870	5.74		24.2		11-Feb-25 21:50	1
1,2,3,7,8,9-HxCDF	ND	1.24	6.14		24.2		11-Feb-25 21:50	1
1,2,3,4,6,7,8-HpCDF	ND	0.849	6.08		24.2		11-Feb-25 21:50	1
1,2,3,4,7,8,9-HpCDF	ND	1.19	7.10		24.2		11-Feb-25 21:50	1
OCDF	ND	3.42	13.2		48.4		11-Feb-25 21:50	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00							
Totals								
Total TCDD	ND	0.686			4.84			
Total PeCDD	ND	1.19			24.2			
Total HxCDD	ND	1.13			24.2			
Total HpCDD	ND	1.69			24.2			
Total TCDF	ND	0.563			4.84			
Total PeCDF	ND	0.980			24.2			
Total HxCDF	ND	1.24			24.2			
Total HpCDF	ND	1.19			24.2			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	71.7	25 - 164		11-Feb-25 21:50	1
13C-1,2,3,7,8-PeCDD	IS	60.5	25 - 181		11-Feb-25 21:50	1
13C-1,2,3,4,7,8-HxCDD	IS	58.5	32 - 141		11-Feb-25 21:50	1
13C-1,2,3,6,7,8-HxCDD	IS	61.1	28 - 130		11-Feb-25 21:50	1
13C-1,2,3,7,8,9-HxCDD	IS	56.3	32 - 141		11-Feb-25 21:50	1
13C-1,2,3,4,6,7,8-HpCDD	IS	49.5	23 - 140		11-Feb-25 21:50	1
13C-OCDD	IS	35.9	17 - 157		11-Feb-25 21:50	1
13C-2,3,7,8-TCDF	IS	70.2	24 - 169		11-Feb-25 21:50	1
13C-1,2,3,7,8-PeCDF	IS	53.7	24 - 185		11-Feb-25 21:50	1
13C-2,3,4,7,8-PeCDF	IS	55.3	21 - 178		11-Feb-25 21:50	1
13C-1,2,3,4,7,8-HxCDF	IS	61.2	26 - 152		11-Feb-25 21:50	1
13C-1,2,3,6,7,8-HxCDF	IS	61.2	26 - 123		11-Feb-25 21:50	1
13C-2,3,4,6,7,8-HxCDF	IS	60.3	28 - 136		11-Feb-25 21:50	1
13C-1,2,3,7,8,9-HxCDF	IS	57.6	29 - 147		11-Feb-25 21:50	1
13C-1,2,3,4,6,7,8-HpCDF	IS	50.6	28 - 143		11-Feb-25 21:50	1
13C-1,2,3,4,7,8,9-HpCDF	IS	49.3	26 - 138		11-Feb-25 21:50	1
13C-OCDF	IS	39.9	17 - 157		11-Feb-25 21:50	1
37Cl-2,3,7,8-TCDD	CRS	105	35 - 197		11-Feb-25 21:50	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

Sample ID: Encina Influent **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: CWRF and EWA Dioxins
Matrix: Aqueous
Date Collected: 29-Jan-25 08:12

Laboratory Data
Lab Sample: 2501225-03
QC Batch: B25B058
Sample Size: 0.990 L
Date Received: 31-Jan-25 09:05
Date Extracted: 07-Feb-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.01	3.96		5.05		11-Feb-25 01:05	1
1,2,3,7,8-PeCDD	ND	1.70	8.41		25.3		11-Feb-25 01:05	1
1,2,3,4,7,8-HxCDD	ND	2.13	6.65		25.3		11-Feb-25 01:05	1
1,2,3,6,7,8-HxCDD	ND	2.13	5.87		25.3		11-Feb-25 01:05	1
1,2,3,7,8,9-HxCDD	ND	2.14	6.05		25.3		11-Feb-25 01:05	1
1,2,3,4,6,7,8-HpCDD	ND		5.59	4.87	25.3		11-Feb-25 01:05	1
OCDD	83.4		16.5		50.5		11-Feb-25 01:05	1
2,3,7,8-TCDF	ND	1.01	1.76		5.05		11-Feb-25 01:05	1
1,2,3,7,8-PeCDF	ND	1.33	6.78		25.3		11-Feb-25 01:05	1
2,3,4,7,8-PeCDF	ND	1.05	7.63		25.3		11-Feb-25 01:05	1
1,2,3,4,7,8-HxCDF	ND	1.19	6.88		25.3		11-Feb-25 01:05	1
1,2,3,6,7,8-HxCDF	ND	1.20	6.17		25.3		11-Feb-25 01:05	1
2,3,4,6,7,8-HxCDF	ND	1.33	5.99		25.3		11-Feb-25 01:05	1
1,2,3,7,8,9-HxCDF	ND	1.87	6.41		25.3		11-Feb-25 01:05	1
1,2,3,4,6,7,8-HpCDF	ND	1.56	6.34		25.3		11-Feb-25 01:05	1
1,2,3,4,7,8,9-HpCDF	ND	2.17	7.41		25.3		11-Feb-25 01:05	1
OCDF	ND	3.89	13.7		50.5		11-Feb-25 01:05	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.0250							
Totals								
Total TCDD	ND	1.01			5.05			
Total PeCDD	ND	1.70			25.3			
Total HxCDD	ND			2.05	25.3			
Total HpCDD	5.34			10.2	25.3	J		
Total TCDF	ND	1.01			5.05			
Total PeCDF	ND	1.33			25.3			
Total HxCDF	ND	1.87			25.3			
Total HpCDF	ND	2.17			25.3			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	70.1	25 - 164		11-Feb-25 01:05	1
13C-1,2,3,7,8-PeCDD	IS	61.6	25 - 181		11-Feb-25 01:05	1
13C-1,2,3,4,7,8-HxCDD	IS	60.9	32 - 141		11-Feb-25 01:05	1
13C-1,2,3,6,7,8-HxCDD	IS	63.2	28 - 130		11-Feb-25 01:05	1
13C-1,2,3,7,8,9-HxCDD	IS	60.5	32 - 141		11-Feb-25 01:05	1
13C-1,2,3,4,6,7,8-HpCDD	IS	53.7	23 - 140		11-Feb-25 01:05	1
13C-OCDD	IS	37.8	17 - 157		11-Feb-25 01:05	1
13C-2,3,7,8-TCDF	IS	68.4	24 - 169		11-Feb-25 01:05	1
13C-1,2,3,7,8-PeCDF	IS	62.5	24 - 185		11-Feb-25 01:05	1
13C-2,3,4,7,8-PeCDF	IS	65.4	21 - 178		11-Feb-25 01:05	1
13C-1,2,3,4,7,8-HxCDF	IS	65.2	26 - 152		11-Feb-25 01:05	1
13C-1,2,3,6,7,8-HxCDF	IS	65.4	26 - 123		11-Feb-25 01:05	1
13C-2,3,4,6,7,8-HxCDF	IS	63.2	28 - 136		11-Feb-25 01:05	1
13C-1,2,3,7,8,9-HxCDF	IS	59.9	29 - 147		11-Feb-25 01:05	1
13C-1,2,3,4,6,7,8-HpCDF	IS	58.0	28 - 143		11-Feb-25 01:05	1
13C-1,2,3,4,7,8,9-HpCDF	IS	56.0	26 - 138		11-Feb-25 01:05	1
13C-OCDF	IS	45.9	17 - 157		11-Feb-25 01:05	1
37Cl-2,3,7,8-TCDD	CRS	98.2	35 - 197		11-Feb-25 01:05	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

ENTHALPY ANALYTICAL

CHAIN OF CUSTODY

GC/HRMS Methods

For Laboratory Use Only
Laboratory Project ID: 2501225 Temp: 1.3 °C
Storage ID: WR-2 Storage Secured: ☑ Yes ☐ No

Project ID: CWRF and EWA Dioxins P.O.#: 20250960: EWA EFF 20250963: CWRF EFF & EWA INF Sampler: SN (name)

TAT (check one): Standard: ☐ 21 days Rush (surcharge may apply) ☐ 14 days ☐ 7 days Other:

Invoice to: Name	Company	Address	City	State	Phone #
	Encina Wastewater Authority	6200 Avenida Encinas	Carlsbad	CA	92011 (619-931-7178)

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Steven Nguyen	1/30/2025	1000 AM	Karen Ast	01/31/25	08:05
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

SHIP TO: Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

Method of Shipment:

ATTN:

Tracking No.:

Add Analysis(es) Requested

Container(s)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	EPA 1613: Dioxins & Furans: 2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	Full List	EPA 8290: Dioxins & Furans: 2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	Full List	EPA 1668: Homolog Totals only	Coplanar PCBs	WHO-29 List	209 CONGENERS	PAHs	Pesticides	EPA 1625	EPA 1699	Other	Comments
Encina Effluent	1/29-30/2025	0820		2	AL					X														
CWRF Effluent	1/29-30/25	0845-0711		2	AL					X														
Encina Influent	1/29-30/2025	0812		2	AL					X														

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:

Name:
Company:
Address:
City: State: Zip:
Phone:
Email:

Container Types: A = 1 Liter Amber, G = Amber Glass Jar, O = Other:

Bottle Preservation: ☐ TZ = Trizma, ☐ = Other:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

CoC/Label Reconciliation Report WO# 2501225

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2501225-01	A Encina EFFLUENT		29-Jan-25 08:20	Amber Glass NM Bottle, 1L	Aqueous	
2501225-01	B Encina EFFLUENT		29-Jan-25 08:20	Amber Glass NM Bottle, 1L	Aqueous	
2501225-02	A CWRF EFFLUENT		29-Jan-25 08:45	Amber Glass NM Bottle, 1L	Aqueous	
2501225-02	B CWRF EFFLUENT		29-Jan-25 08:45	Amber Glass NM Bottle, 1L	Aqueous	
2501225-03	A Encina Influent		29-Jan-25 08:12	Amber Glass NM Bottle, 1L	Aqueous	
2501225-03	B Encina Influent		29-Jan-25 08:12	Amber Glass NM Bottle, 1L	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?			
Sample Container(s) Custody Seals Intact?			
Custody Seals On Cooler Intact?			
Adequate Sample Volume?			
Container Type Appropriate for Analysis(es)?			

Comments:
A Sample Contins Particulate ~5%.
B NO Sample matrix listed on COC

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verifed by/Date: XAO 01/31/25.
WMS 01/31/25

Monday, June 16, 2025

Rachael Morgan
Encina Wastewater Authority La
6200 Avenida Encinas
Carlsbad, CA 92011

Re	Lab Order:	A050819	Collected By:	C.DEVRING
	Project ID:	MDLK FAILFSAFE EFF ANNUAL 2025	PO/Contract#:	

Dear Rachael Morgan:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 23, 2025. 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

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • e-mail: info@caltestlabs.com

SAMPLE SUMMARY

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
A050819001	MDLK FAILSAFE EFF	Water (ML)	05/22/25 08:00	05/23/25 09:15

1885 North Kelly Road • Napa, California 94558
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NARRATIVE

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

General Qualifiers and Notes

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.

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ANALYTICAL RESULTS

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID A050819001 **Date Collected:** 05/22/25 08:00 **Matrix:** Water (ML)
Sample ID MDLK FAILSAFE EFF **Date Received:** 05/23/25 09:15

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Volatile Organic Analysis			**Analytical Method:**		EPA 624.1			**Analyzed By:**	AN	
Acrolein	ND	ug/L	2.0	0.81	1			05/23/25 16:20	VMS 1789	
Acrylonitrile	ND	ug/L	2.0	1.3	1			05/23/25 16:20	VMS 1789	
Benzene	ND	ug/L	0.50	0.18	1			05/23/25 16:20	VMS 1789	
Bromodichloromethane	**J0.22**	ug/L	0.50	0.080	1			05/23/25 16:20	VMS 1789	
Bromoform	ND	ug/L	0.50	0.15	1			05/23/25 16:20	VMS 1789	
Bromomethane (Methyl Bromide)	ND	ug/L	0.50	0.13	1			05/23/25 16:20	VMS 1789	
Carbon tetrachloride	ND	ug/L	0.50	0.21	1			05/23/25 16:20	VMS 1789	
Chlorobenzene	ND	ug/L	0.50	0.18	1			05/23/25 16:20	VMS 1789	
Chloroethane (Ethyl Chloride)	ND	ug/L	0.50	0.46	1			05/23/25 16:20	VMS 1789	
2-Chloroethyl vinyl ether	ND	ug/L	1.0	0.36	1			05/23/25 16:20	VMS 1789	
Chloroform	**0.56**	ug/L	0.50	0.17	1			05/23/25 16:20	VMS 1789	
Chloromethane(Methyl Chloride)	ND	ug/L	0.50	0.46	1			05/23/25 16:20	VMS 1789	
Dibromochloromethane	**J0.19**	ug/L	0.25	0.17	1			05/23/25 16:20	VMS 1789	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.27	1			05/23/25 16:20	VMS 1789	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.18	1			05/23/25 16:20	VMS 1789	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.18	1			05/23/25 16:20	VMS 1789	
Dichlorodifluoromethane (F-12)	ND	ug/L	0.50	0.32	1			05/23/25 16:20	VMS 1789	
1,1-Dichloroethane	ND	ug/L	0.50	0.41	1			05/23/25 16:20	VMS 1789	
1,2-Dichloroethane (EDC)	ND	ug/L	0.50	0.17	1			05/23/25 16:20	VMS 1789	
1,1-Dichloroethene	ND	ug/L	0.50	0.39	1			05/23/25 16:20	VMS 1789	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.15	1			05/23/25 16:20	VMS 1789	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.10	1			05/23/25 16:20	VMS 1789	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	1			05/23/25 16:20	VMS 1789	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.090	1			05/23/25 16:20	VMS 1789	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.46	1			05/23/25 16:20	VMS 1789	
Dichlorotrifluoroethane (F123)	ND	ug/L	0.50	0.14	1			05/23/25 16:20	VMS 1789	
Ethylbenzene	ND	ug/L	0.50	0.10	1			05/23/25 16:20	VMS 1789	
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50	0.15	1			05/23/25 16:20	VMS 1789	
Methylene chloride	ND	ug/L	0.50	0.49	1			05/23/25 16:20	VMS 1789	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.23	1			05/23/25 16:20	VMS 1789	
Tetrachloroethene (PCE)	ND	ug/L	0.50	0.19	1			05/23/25 16:20	VMS 1789	
Toluene	ND	ug/L	0.50	0.19	1			05/23/25 16:20	VMS 1789	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.24	1			05/23/25 16:20	VMS 1789	
1,1,1-Trichloroethane (TCA)	ND	ug/L	0.50	0.46	1			05/23/25 16:20	VMS 1789	
Trichloroethene (TCE)	ND	ug/L	0.50	0.20	1			05/23/25 16:20	VMS 1789	
Trichlorofluoromethane (F-11)	ND	ug/L	0.50	0.29	1			05/23/25 16:20	VMS 1789	
Trichlorotrifluoroethane F-113	ND	ug/L	1.0	0.13	1			05/23/25 16:20	VMS 1789	
Vinyl chloride	ND	ug/L	0.50	0.25	1			05/23/25 16:20	VMS 1789	
Xylenes, total	ND	ug/L	0.50	0.47	1			05/23/25 16:20	VMS 1789	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
1,2-Dichloroethane-d4 (SS)	104%	57 - 148			05/23/25 16:20	VMS 1789	
4-Bromofluorobenzene (SS)	109%	80 - 120			05/23/25 16:20	VMS 1789	
Dibromofluoromethane (SS)	110%	63 - 142			05/23/25 16:20	VMS 1789	
Toluene-d8 (SS)	89%	46 - 145			05/23/25 16:20	VMS 1789	

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QUALITY CONTROL DATA

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description:	Volatile Organic Analysis	**QC Batch:**	VMS/1789
Analysis Method:	EPA 624.1	**QC Batch Method:**	EPA 624.1

Method Blank (268219)

Parameter	Result	Units	RL	MDL	Qual
Acrolein	ND	ug/L	2.0	0.81	
Acrylonitrile	ND	ug/L	2.0	1.3	
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	
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	0.41	
1,2-Dichloroethane (EDC)	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	ND	ug/L	0.50	0.39	
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	0.23	
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	0.24	
1,1,1-Trichloroethane (TCA)	ND	ug/L	0.50	0.46	
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	Spike Rec %	Control Limits	Qual
1,2-Dichloroethane-d4 (SS)	%	104	66 - 137	
4-Bromofluorobenzene (SS)	%	106	80 - 120	

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QUALITY CONTROL DATA

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1789
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Surrogates

Parameter	Units	Spike Rec %	Control Limits	Qual
Dibromofluoromethane (SS)	%	100	71 - 133	
Toluene-d8 (SS)	%	95	61 - 136	

Laboratory Control Sample (268220); Laboratory Control Sample Dup (268221)

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acrolein	ug/L	20	13	15	65	75	60 - 140	14	60	
Acrylonitrile	ug/L	20	18	12	90	60	60 - 140	40	60	
Benzene	ug/L	5.0	3.9	4.5	78	90	65 - 135	14	61	
Bromodichloromethane	ug/L	5.0	4.8	4.6	96	92	65 - 135	4	56	
Bromoform	ug/L	5.0	4.6	4.7	92	94	70 - 130	2	42	
Bromomethane (Methyl Bromide)	ug/L	5.0	7.7	7.0	154	140	15 - 185	10	61	
Carbon tetrachloride	ug/L	5.0	4.4	4.5	88	90	70 - 130	2	41	
Chlorobenzene	ug/L	5.0	4.6	4.5	92	90	65 - 135	2	53	
Chloroethane (Ethyl Chloride)	ug/L	5.0	4.5	3.9	90	78	40 - 160	14	78	
2-Chloroethyl vinyl ether	ug/L	10	10	10	100	100	2.50 - 225	0	71	
Chloroform	ug/L	5.0	3.6	4.5	72	90	70 - 135	22	54	
Chloromethane(Methyl Chloride)	ug/L	5.0	6.6	6.1	132	122	5 - 205	8	60	
Dibromochloromethane	ug/L	5.0	4.7	4.7	94	94	70 - 135	0	50	
1,2-Dichlorobenzene	ug/L	5.0	4.9	5.0	98	100	65 - 135	2	57	
1,3-Dichlorobenzene	ug/L	5.0	4.7	4.6	94	92	70 - 130	2	43	
1,4-Dichlorobenzene	ug/L	5.0	4.9	4.7	98	94	65 - 135	4	57	
Dichlorodifluoromethane (F-12)	ug/L	5.0	4.4	3.9	88	78	44 - 166	12	30	
1,1-Dichloroethane	ug/L	5.0	4.7	4.0	94	80	70 - 130	16	40	
1,2-Dichloroethane (EDC)	ug/L	5.0	4.2	4.1	84	82	70 - 130	2	30	
1,1-Dichloroethene	ug/L	5.0	3.3	3.2	66	64	50 - 150	3	32	
cis-1,2-Dichloroethene	ug/L	5.0	5.0	4.7	100	94	72 - 134	6	30	
trans-1,2-Dichloroethene	ug/L	5.0	4.9	2.9	98	**58**	70 - 130	**51**	**45**	1
1,2-Dichloropropane	ug/L	5.0	4.7	4.0	94	80	35 - 165	16	55	
cis-1,3-Dichloropropene	ug/L	5.0	4.9	4.9	98	98	25 - 175	0	58	
trans-1,3-Dichloropropene	ug/L	5.0	4.6	4.7	92	94	50 - 150	2	86	
Dichlorotrifluoroethane (F123)	ug/L	5.0	3.8	4.3	76	86	64 - 142	12	30	
Ethylbenzene	ug/L	5.0	4.7	4.6	94	92	60 - 140	2	30	
Methyl tert-butyl ether (MTBE)	ug/L	5.0	4.9	3.4	98	68	68 - 142	**36**	**30**	2
Methylene chloride	ug/L	5.0	4.1	3.6	82	72	60 - 140	13	28	
1,1,2,2-Tetrachloroethane	ug/L	5.0	4.8	4.3	96	86	60 - 140	11	61	
Tetrachloroethene (PCE)	ug/L	5.0	4.8	4.7	96	94	70 - 130	2	39	
Toluene	ug/L	5.0	4.6	4.5	92	90	70 - 130	2	41	
1,1,2-Trichloroethane	ug/L	5.0	4.4	4.7	88	94	70 - 130	7	45	
1,1,1-Trichloroethane (TCA)	ug/L	5.0	3.7	4.6	74	92	70 - 130	22	36	
Trichloroethene (TCE)	ug/L	5.0	4.2	3.4	84	68	65 - 135	21	48	
Trichlorofluoromethane (F-11)	ug/L	5.0	4.7	4.3	94	86	50 - 150	9	84	
Trichlorotrifluoroethane F-113	ug/L	5.0	4.7	4.5	94	90	62 - 151	4	30	
Vinyl chloride	ug/L	5.0	4.6	4.1	92	82	5 - 195	11	66	
Xylenes, total	ug/L	15	15	14	100	93	58 - 138	7	30	

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QUALITY CONTROL DATA

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1789
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
1,2-Dichloroethane-d4 (SS)	%	75	99	66 - 137	
4-Bromofluorobenzene (SS)	%	103	110	80 - 120	
Dibromofluoromethane (SS)	%	86	100	71 - 133	
Toluene-d8 (SS)	%	96	96	61 - 136	

Matrix Spike (268445); Matrix Spike Dup (268446)

Parameter	A050817001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acrolein	ND	ug/L	80	50	83	63	104	40 - 160	50	50	
Acrylonitrile	ND	ug/L	80	61	66	76	83	40 - 160	8	50	
Benzene	ND	ug/L	20	11	18	55	90	37 - 151	**48**	30	3
Bromodichloromethane	ND	ug/L	20	19	21	95	105	35 - 155	10	30	
Bromoform	ND	ug/L	20	20	24	100	120	45 - 169	18	30	
Bromomethane (Methyl Bromide)	ND	ug/L	20	29	48	145	240	2.50 - 242	**49**	45	3
Carbon tetrachloride	ND	ug/L	20	15	26	75	130	70 - 140	**54**	30	3
Chlorobenzene	ND	ug/L	20	18	18	90	90	37 - 160	0	30	
Chloroethane (Ethyl Chloride)	ND	ug/L	20	17	36	85	180	14 - 230	**72**	40	3
2-Chloroethyl vinyl ether	ND	ug/L	40	40	38	100	95	2.50 - 305	5	40	
Chloroform	ND	ug/L	20	12	19	60	95	51 - 138	**45**	30	3
Chloromethane(Methyl Chloride)	ND	ug/L	20	22	38	110	190	5 - 273	53	60	
Dibromochloromethane	ND	ug/L	20	21	24	105	120	53 - 149	13	30	
1,2-Dichlorobenzene	ND	ug/L	20	17	29	85	145	18 - 190	**52**	30	3
1,3-Dichlorobenzene	ND	ug/L	20	18	22	90	110	59 - 156	20	30	
1,4-Dichlorobenzene	ND	ug/L	20	17	22	85	110	18 - 190	26	30	
Dichlorodifluoromethane (F-12)	ND	ug/L	20	18	30	90	150	55 - 152	**50**	45	3
1,1-Dichloroethane	ND	ug/L	20	11	18	**55**	90	59 - 155	**48**	30	4
1,2-Dichloroethane (EDC)	ND	ug/L	20	13	20	65	100	49 - 155	**42**	30	3
1,1-Dichloroethene	ND	ug/L	20	14	23	70	115	2.50 - 234	**49**	30	3
cis-1,2-Dichloroethene	ND	ug/L	20	10	16	**50**	80	78 - 124	**46**	30	4
trans-1,2-Dichloroethene	ND	ug/L	20	17	18	85	90	54 - 156	6	30	
1,2-Dichloropropane	ND	ug/L	20	13	19	65	95	2.50 - 210	**38**	30	3
cis-1,3-Dichloropropene	ND	ug/L	20	21	20	105	100	2.50 - 227	5	30	
trans-1,3-Dichloropropene	ND	ug/L	20	19	20	95	100	17 - 183	5	30	
Dichlorotrifluoroethane (F123)	ND	ug/L	20	16	33	80	**165**	**77 - 128**	**69**	30	4
Ethylbenzene	ND	ug/L	20	17	19	85	95	37 - 162	11	30	
Methyl tert-butyl ether (MTBE)	ND	ug/L	20	17	17	85	85	67 - 137	0	30	
Methylene chloride	ND	ug/L	20	15	26	74	129	2.50 - 221	**54**	30	3
1,1,2,2-Tetrachloroethane	ND	ug/L	20	17	20	85	100	46 - 157	16	30	
Tetrachloroethene (PCE)	ND	ug/L	20	19	21	95	105	64 - 148	10	30	
Toluene	ND	ug/L	20	19	19	95	95	47 - 150	0	30	
1,1,2-Trichloroethane	ND	ug/L	20	19	19	95	95	52 - 150	0	30	
1,1,1-Trichloroethane (TCA)	ND	ug/L	20	14	23	70	115	52 - 162	**49**	30	3
Trichloroethene (TCE)	ND	ug/L	20	13	19	**65**	95	70 - 157	**38**	30	4
Trichlorofluoromethane (F-11)	ND	ug/L	20	15	32	75	160	17 - 181	**72**	40	3
Trichlorotrifluoroethane F-113	ND	ug/L	20	20	32	100	**160**	**57 - 159**	**46**	30	4

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QUALITY CONTROL DATA

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1789
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Parameter	A050817001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Vinyl chloride	ND	ug/L	20	18	32	90	160	2.50 - 251	**56**	40	3
Xylenes, total	ND	ug/L	60	54	58	90	97	49 - 146	7	30	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
1,2-Dichloroethane-d4 (SS)	%	**51**	75	57 - 148	5
4-Bromofluorobenzene (SS)	%	102	115	80 - 120	
Dibromofluoromethane (SS)	%	**60**	96	63 - 142	5
Toluene-d8 (SS)	%	94	90	46 - 145	

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QUALITY CONTROL DATA QUALIFIERS

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

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	LCS/LCSD RPD and LCSD recovery exceeds control limits. Batch accepted based on LCS recovery.
2	LCS/LCSD RPD exceeds control limits. Batch accepted based on LCS recovery.
3	MS/MSD RPD exceeds control limits. Batch accepted based on MS/MSD recoveries and LCS/LCSD RPD results.
4	Matrix spike recovery(ies) and RPD outside control limits, due to matrix interferences. Sample result accepted based on Method Blank results, LCS/LCSD recoveries as well as associated RPD, as applicable.
5	MS surrogate recovery is not within QC Acceptance Criteria. Sample result accepted based on sample surrogate recoveries.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: A050819
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID	Sample ID	Prep Batch	Prep Method
VMS/1789 - EPA 624.1			
A050819001	MDLK FAILSAFE EFF	VMS/1789	EPA 624.1

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Caltest
ANALYTICAL LABORATORY

SAMPLE CHAIN OF CUSTODY

PAGE _____ OF _____

LAB ORDER # A0S0819

CLIENT: Encina Wastewater Authority
MAILING ADDRESS: 6200 Avenida Encinas
BILLING ADDRESS:
CITY: Carlsbad STATE: CA ZIP: 92011
ATTN:
PHONE NUMBER: (760)268-8801
EMAIL ADDRESS: rachael@encinajpa.com
SAMPLER (PRINT & SIGN NAME): C. Perring

PROJECT NAME / PROJECT NUMBER: MDLK Failsafe Effluent Annual 2025
REPORT ATTN:
P.O. NUMBER

TURN-AROUND TIME
[X] STANDARD
[ ] RUSH
DUE DATE: _____

REGULATORY DRINKING WATER?
___ Yes / _X_ No
If Yes, write 13-digit CLIP Code(s) below:

CALTEST SAMPLE #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	EPA 624 LL	Acrolein & Acrylonitrile
1	5/22/25	0800	WW	VOA/3 *	HCl	MDLK Failsafe Eff		Grab	X	
↓	5/22/25	0800	WW	VOA/3 *	Ice	MDLK Failsafe Eff		Grab		X

Please provide detection limits & reporting limits

RELINQUISHED BY: Jen — DATE/TIME: 5/22/25 1000 — RECEIVED BY: Fedex
RELINQUISHED BY: Fedex — DATE/TIME: 5/23/25 0915 — RECEIVED BY: Sam S

FOR LAB USE ONLY
TEMP: 3.5 °C / 3.8 °C — SEALED: (Y) / N — INTACT: (Y) / N — ON ICE: (Y) / N

REPORTING OPTIONS (Choose One): ___ EMAIL ___ MAIL ___ BOTH

COMMENTS: * one preserved voa with Hcl has bubble less than 6mm. 2 unpreserved voas have bubbles less than 6mm ss 5/27/25

Samples: WC: ___ MICRO: ___
BD: WC: ___ MET: ___ VOA: ___
SIL: HP: ___ PT: ___ QT: ___ VOA: ___ SUB: ___
PIL: HNO_3: ___ H_2SO_4: ___ NaOH: ___ HCl: ___
BIO: ___ MET: ___ SV: ___ VOA: ___
WH/HNO_3: ___ H_2SO_4: ___ NaOH: ___

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

*MATRIX: W = Aqueous Nondrinking Water, Digested Metals; ML = Final Effluent, Minimum-Level/Low-Level; R.L.; DW = Drinking Water; SL = Soil, Sludge, Solid ; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 mL Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA, OTC = Other Type Container

05/20/25

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REVISED

Monday, June 30, 2025

Rachael Morgan
Encina Wastewater Authority La
6200 Avenida Encinas
Carlsbad, CA 92011

Re	Lab Order:	A050617	Collected By:	A.S
	Project ID:	MDLK FAILFSAFE EFF ANNUAL 2025	PO/Contract#:	

Dear Rachael Morgan:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 16, 2025. 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

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SAMPLE SUMMARY

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
A050617001	MDLK FAILSAFE EFF	Water (ML)	05/15/25 07:00	05/16/25 09:20

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NARRATIVE

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

General Qualifiers and Notes

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.

Workorder Notes

Report revised to add 1,2,4-Trichlorobenzene result. Replaces report dated 06/17/2025. HAL 6/30/25

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ANALYTICAL RESULTS

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID A050617001 **Date Collected:** 05/15/25 07:00 **Matrix:** Water (ML)
Sample ID MDLK FAILSAFE EFF **Date Received:** 05/16/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Chlorinated Pesticides & PCBs Analysis			**Prep Method:**	EPA 625.1				**Prepared By:**	CBR	
			Analytical Method:	EPA 625.1				**Analyzed By:**	MDT	
Aldrin	ND	ug/L	0.0050	0.0014	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
alpha-BHC	ND	ug/L	0.010	0.0026	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
beta-BHC	ND	ug/L	0.0050	0.0029	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
delta-BHC	ND	ug/L	0.0050	0.0035	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
gamma-BHC (Lindane)	ND	ug/L	0.010	0.0022	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Chlordane	ND	ug/L	0.010	0.0034	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
4,4'-DDD	ND	ug/L	0.010	0.0021	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
4,4'-DDE	ND	ug/L	0.010	0.00090	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
4,4'-DDT	ND	ug/L	0.010	0.0038	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Dieldrin	ND	ug/L	0.010	0.0017	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Endosulfan I	ND	ug/L	0.010	0.0042	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Endosulfan II	ND	ug/L	0.010	0.0023	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Endosulfan sulfate	ND	ug/L	0.010	0.0011	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Endrin	ND	ug/L	0.010	0.0027	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Endrin aldehyde	ND	ug/L	0.010	0.0034	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Endrin ketone	ND	ug/L	0.010	0.0040	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Heptachlor	ND	ug/L	0.010	0.0031	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Heptachlor epoxide	ND	ug/L	0.010	0.0027	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Methoxychlor	ND	ug/L	0.010	0.0035	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1016	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1221	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1232	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1242	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1248	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1254	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
PCB 1260	ND	ug/L	0.10	0.030	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Toxaphene	ND	ug/L	0.50	0.40	1	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
Decachlorobiphenyl (SS)	10%	1 - 199	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	
Tetrachloro-m-xylene (SS)	129%	11 - 134	05/19/25 00:00	SPR 2022	06/11/25 06:14	SMS 1869	

Metals by ICPMS Collision Mode, Total			**Prep Method:**	EPA 200.8				**Prepared By:**	TPH	
			Analytical Method:	EPA 200.8				**Analyzed By:**	JHG	
Antimony	**J0.45**	ug/L	0.50	0.028	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Arsenic	**0.64**	ug/L	0.50	0.049	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Beryllium	ND	ug/L	0.10	0.079	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Cadmium	ND	ug/L	0.10	0.050	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Chromium	**J0.34**	ug/L	0.50	0.050	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Copper	**11**	ug/L	0.50	0.36	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Lead	**J0.085**	ug/L	0.25	0.070	1	05/20/25 15:58	MPR 2943	05/24/25 22:32	MMS 2231	
Nickel	**1.9**	ug/L	0.50	0.082	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Selenium	**J0.87**	ug/L	1.0	0.37	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Silver	ND	ug/L	0.10	0.061	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Thallium	ND	ug/L	0.10	0.047	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	
Zinc	**20**	ug/L	1.0	0.78	1	05/20/25 15:58	MPR 2943	05/22/25 18:05	MMS 2231	

Semivolatile Organic Analysis			**Prep Method:**	EPA 625.1				**Prepared By:**	CBR	
			Analytical Method:	EPA 625.1				**Analyzed By:**	MDT	
Acenaphthene	ND	ug/L	0.30	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Acenaphthylene	ND	ug/L	0.20	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	

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ANALYTICAL RESULTS

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID A050617001 **Date Collected:** 05/15/25 07:00 **Matrix:** Water (ML)
Sample ID MDLK FAILSAFE EFF **Date Received:** 05/16/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Anthracene	ND	ug/L	0.30	0.030	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzidine	ND	ug/L	5.0	4.0	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzo(a)anthracene	ND	ug/L	0.30	0.050	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzo(a)pyrene	ND	ug/L	0.30	0.040	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzo(b)fluoranthene	ND	ug/L	0.30	0.050	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.050	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzo(k)fluoranthene	ND	ug/L	0.30	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Benzyl butyl phthalate	ND	ug/L	5.0	2.0	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
4-Bromophenyl phenyl ether	ND	ug/L	5.0	0.23	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
bis(2-Chloroethoxy) methane	ND	ug/L	5.0	0.14	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.33	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.21	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.32	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Chloronaphthalene	ND	ug/L	5.0	0.28	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Chlorophenol	ND	ug/L	2.0	0.53	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
4-Chlorophenyl phenyl ether	ND	ug/L	5.0	0.29	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Chrysene	ND	ug/L	0.30	0.050	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Dibenzo(a,h)anthracene	ND	ug/L	0.10	0.050	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
3,3'-Dichlorobenzidine	ND	ug/L	5.0	1.4	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,4-Dichlorophenol	ND	ug/L	1.0	0.45	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Diethylphthalate	ND	ug/L	2.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,4-Dimethylphenol	ND	ug/L	2.0	0.11	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Dimethylphthalate	ND	ug/L	2.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Di-n-butylphthalate	ND	ug/L	5.0	0.40	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,4-Dinitrophenol	ND	ug/L	5.0	0.29	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,4-Dinitrotoluene	ND	ug/L	5.0	0.28	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,6-Dinitrotoluene	ND	ug/L	5.0	0.22	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Di-n-octylphthalate	ND	ug/L	5.0	0.40	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	1.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
bis(2-Ethylhexyl) phthalate	ND	ug/L	1.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Fluoranthene	ND	ug/L	0.050	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Fluorene	ND	ug/L	0.10	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Hexachlorobenzene	ND	ug/L	1.0	1.0	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Hexachlorobutadiene	ND	ug/L	1.0	0.40	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Hexachlorocyclo pentadiene	ND	ug/L	1.0	0.90	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Hexachloroethane	ND	ug/L	1.0	0.40	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.050	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Isophorone	ND	ug/L	1.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Methyl-4,6-dinitrophenol	ND	ug/L	5.0	0.23	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Methylphenol (o-Cresol)	ND	ug/L	5.0	0.32	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	5.0	0.24	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Naphthalene	ND	ug/L	0.20	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Nitrobenzene	ND	ug/L	1.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Nitrophenol	ND	ug/L	5.0	0.38	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
4-Nitrophenol	ND	ug/L	5.0	0.30	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
N-Nitrosodimethylamine	ND	ug/L	5.0	0.70	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	0.50	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.70	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Pentachlorophenol	ND	ug/L	1.0	0.40	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Phenanthrene	ND	ug/L	0.050	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Phenol	ND	ug/L	1.0	0.30	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Pyrene	ND	ug/L	0.050	0.020	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	0.25	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.28	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2,4,6-Trichlorophenol	ND	ug/L	2.0	0.40	1	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	

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ANALYTICAL RESULTS

Lab Order: A050617
Project ID: MDLK FAILSAFE EFF ANNUAL 2025

Lab ID A050617001 **Date Collected:** 05/15/25 07:00 **Matrix:** Water (ML)
Sample ID MDLK FAILSAFE EFF **Date Received:** 05/16/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
2,4,6-Tribromophenol (SS)	86%	1 - 200	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Fluorobiphenyl (SS)	57%	1 - 130	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
2-Fluorophenol (SS)	28%	1 - 130	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Nitrobenzene-d5 (SS)	52%	1 - 130	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Phenol-d6 (SS)	20%	1 - 130	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	
Terphenyl-d14 (SS)	108%	1 - 200	05/22/25 00:00	SPR 2032	05/28/25 21:20	SMS 1859	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Metals by ICPMS Collision Mode, Total **QC Batch:** MPR/2943
Analysis Method: EPA 200.8 **QC Batch Method:** EPA 200.8

Method Blank (267325)

Parameter	Result	Units	RL	MDL	Qual
Antimony	ND	ug/L	0.50	0.028	
Arsenic	ND	ug/L	0.50	0.049	
Beryllium	ND	ug/L	0.10	0.079	
Cadmium	ND	ug/L	0.10	0.050	
Chromium	ND	ug/L	0.50	0.050	
Copper	ND	ug/L	0.50	0.36	
Lead	ND	ug/L	0.25	0.070	
Nickel	ND	ug/L	0.50	0.082	
Selenium	ND	ug/L	1.0	0.37	
Silver	ND	ug/L	0.10	0.061	
Thallium	ND	ug/L	0.10	0.047	
Zinc	ND	ug/L	1.0	0.78	

Laboratory Control Sample (267326)

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Qual
Antimony	ug/L	20	21	105	85 - 115	
Arsenic	ug/L	20	20	100	85 - 115	
Beryllium	ug/L	20	20	100	85 - 115	
Cadmium	ug/L	20	20	100	85 - 115	
Chromium	ug/L	20	20	100	85 - 115	
Copper	ug/L	20	21	105	85 - 115	
Lead	ug/L	20	22	110	85 - 115	
Nickel	ug/L	20	21	105	85 - 115	
Selenium	ug/L	20	20	100	85 - 115	
Silver	ug/L	20	20	100	85 - 115	
Thallium	ug/L	20	18	90	85 - 115	
Zinc	ug/L	20	21	105	85 - 115	

Matrix Spike (267327); Matrix Spike Dup (267328)

Parameter	A050526001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Antimony	J0.037	ug/L	20	21	22	105	110	70 - 130	5	20	
Arsenic	0.62	ug/L	20	20	21	97	102	70 - 130	5	20	
Beryllium	ND	ug/L	20	19	21	95	105	70 - 130	10	20	
Cadmium	ND	ug/L	20	19	20	95	100	70 - 130	5	20	
Chromium	0.90	ug/L	20	21	22	101	106	70 - 130	5	20	
Copper	1.8	ug/L	20	22	23	101	106	70 - 130	4	20	
Lead	0.66	ug/L	20	23	23	112	112	70 - 130	0	20	
Nickel	31	ug/L	20	49	52	90	105	70 - 130	6	20	
Selenium	ND	ug/L	20	18	20	89	99	70 - 130	11	20	
Silver	ND	ug/L	20	20	20	100	100	70 - 130	0	20	
Thallium	ND	ug/L	20	19	20	95	100	70 - 130	5	20	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Metals by ICPMS Collision Mode, Total **QC Batch:** MPR/2943
Analysis Method: EPA 200.8 **QC Batch Method:** EPA 200.8

Parameter	A050526001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Zinc	5.4	ug/L	20	25	26	98	103	70 - 130	4	20	

Matrix Spike (267329); Matrix Spike Dup (267330)

Parameter	A050549001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Antimony	1.1	ug/L	20	23	23	110	110	70 - 130	0	20	
Arsenic	21	ug/L	20	41	42	100	105	70 - 130	2	20	
Beryllium	ND	ug/L	20	21	20	105	100	70 - 130	5	20	
Cadmium	J0.051	ug/L	20	18	18	90	90	70 - 130	0	20	
Chromium	2.3	ug/L	20	21	21	94	94	70 - 130	0	20	
Copper	7.4	ug/L	20	27	27	98	98	70 - 130	0	20	
Lead	0.39	ug/L	20	20	20	98	98	70 - 130	0	20	
Nickel	8.3	ug/L	20	28	28	99	99	70 - 130	0	20	
Selenium	J0.94	ug/L	20	19	19	90	90	70 - 130	0	20	
Silver	0.25	ug/L	20	19	18	94	89	70 - 130	5	20	
Thallium	J0.062	ug/L	20	18	18	90	90	70 - 130	0	20	
Zinc	56	ug/L	20	73	72	85	80	70 - 130	1	20	

Analysis Description: Chlorinated Pesticides & PCBs Analysis **QC Batch:** SPR/2022
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Method Blank (266832)

Parameter	Result	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	0.00090	
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	
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	

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Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Chlorinated Pesticides & PCBs Analysis **QC Batch:** SPR/2022
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Result	Units	RL	MDL	Qual
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	Spike Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	102	29 - 155	
Tetrachloro-m-xylene (SS)	%	45	23 - 94	

Laboratory Control Sample (266833); Laboratory Control Sample Dup (266834)

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Aldrin	ug/L	0.20	0.096	0.11	48	55	1 - 166	14	40	
alpha-BHC	ug/L	0.20	0.14	0.16	70	80	49 - 157	13	40	
beta-BHC	ug/L	0.20	0.18	0.19	90	95	24 - 149	5	40	
delta-BHC	ug/L	0.20	0.11	0.11	55	55	1 - 120	0	40	
gamma-BHC (Lindane)	ug/L	0.20	0.15	0.17	75	85	40 - 162	13	40	
Chlordane	ug/L	0.40	0.35	0.37	88	93	1 - 203	6	40	
4,4'-DDD	ug/L	0.20	0.23	0.24	115	120	1 - 145	4	40	
4,4'-DDE	ug/L	0.20	0.19	0.20	95	100	4 - 136	5	40	
4,4'-DDT	ug/L	0.20	0.22	0.22	110	110	1 - 203	0	40	
Dieldrin	ug/L	0.20	0.17	0.18	85	90	29 - 136	6	40	
Endosulfan I	ug/L	0.20	0.20	0.21	100	105	23 - 168	5	40	
Endosulfan II	ug/L	0.20	0.23	0.23	115	115	37 - 173	0	40	
Endosulfan sulfate	ug/L	0.20	0.20	0.22	100	110	1 - 120	10	40	
Endrin	ug/L	0.20	0.19	0.18	95	90	1 - 239	5	40	
Endrin aldehyde	ug/L	0.20	0.19	0.20	95	100	1 - 209	5	40	
Endrin ketone	ug/L	0.20	0.25	0.27	125	135	26 - 217	8	40	
Heptachlor	ug/L	0.20	0.13	0.15	65	75	1 - 192	14	40	
Heptachlor epoxide	ug/L	0.20	0.19	0.21	95	105	26 - 155	10	40	
Methoxychlor	ug/L	0.20	0.25	0.26	125	130	3 - 259	4	40	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	98	101	29 - 155	
Tetrachloro-m-xylene (SS)	%	34	42	23 - 94	

Matrix Spike (266836); Matrix Spike Dup (266837)

Parameter	A050548001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Aldrin	ND	ug/L	0.22	0.14	0.086	64	43	1 - 166	48	81	
alpha-BHC	ND	ug/L	0.22	0.22	0.21	101	104	60 - 140	5	40	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Chlorinated Pesticides & PCBs Analysis **QC Batch:** SPR/2022
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	A050548001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
beta-BHC	ND	ug/L	0.22	0.30	0.27	138	134	24 - 149	11	61	
delta-BHC	ND	ug/L	0.22	0.12	0.11	55	54	1 - 120	9	129	
gamma-BHC (Lindane)	ND	ug/L	0.22	0.16	0.16	74	79	60 - 140	0	40	
Chlordane	ND	ug/L	0.43	0.41	0.39	94	97	60 - 140	5	40	
4,4'-DDD	ND	ug/L	0.22	0.29	0.25	133	124	1 - 145	15	93	
4,4'-DDE	ND	ug/L	0.22	0.19	0.18	87	89	4 - 136	5	77	
4,4'-DDT	ND	ug/L	0.22	0.23	0.20	106	99	1 - 203	14	135	
Dieldrin	ND	ug/L	0.22	0.26	0.25	120	124	29 - 136	4	62	
Endosulfan I	ND	ug/L	0.22	0.28	0.26	129	129	60 - 140	7	40	
Endosulfan II	ND	ug/L	0.22	0.25	0.22	115	109	60 - 140	13	40	
Endosulfan sulfate	ND	ug/L	0.22	0.14	0.14	64	69	1 - 120	0	70	
Endrin	ND	ug/L	0.22	0.28	0.27	129	134	60 - 140	4	40	
Endrin aldehyde	ND	ug/L	0.22	0.13	0.16	60	79	1 - 209	21	75	
Endrin ketone	ND	ug/L	0.22	0.22	0.23	101	114	60 - 140	4	40	
Heptachlor	ND	ug/L	0.22	0.19	0.18	87	89	1 - 192	5	74	
Heptachlor epoxide	ND	ug/L	0.22	0.24	0.23	110	114	26 - 155	4	101	
Methoxychlor	ND	ug/L	0.22	0.24	0.22	110	109	60 - 140	9	40	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	60	58	1 - 199	
Tetrachloro-m-xylene (SS)	%	65	70	11 - 134	

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2032
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Method Blank (267878)

Parameter	Result	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	0.23	
bis(2-Chloroethoxy) methane	ND	ug/L	5.0	0.14	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.33	
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.21	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.32	
2-Chloronaphthalene	ND	ug/L	5.0	0.28	
2-Chlorophenol	ND	ug/L	2.0	0.53	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2032
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Result	Units	RL	MDL	Qual
4-Chlorophenyl phenyl ether	ND	ug/L	5.0	0.29	
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	1.4	
2,4-Dichlorophenol	ND	ug/L	1.0	0.45	
Diethylphthalate	ND	ug/L	2.0	0.50	
2,4-Dimethylphenol	ND	ug/L	2.0	0.11	
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	0.29	
2,4-Dinitrotoluene	ND	ug/L	5.0	0.28	
2,6-Dinitrotoluene	ND	ug/L	5.0	0.22	
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	0.23	
2-Methylphenol (o-Cresol)	ND	ug/L	5.0	0.32	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	5.0	0.24	
Naphthalene	ND	ug/L	0.20	0.020	
Nitrobenzene	ND	ug/L	1.0	0.50	
2-Nitrophenol	ND	ug/L	5.0	0.38	
4-Nitrophenol	ND	ug/L	5.0	0.30	
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	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	0.25	
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.28	
2,4,6-Trichlorophenol	ND	ug/L	2.0	0.40	

Surrogates

Parameter	Units	Spike Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	102	23 - 170	
2-Fluorobiphenyl (SS)	%	77	15 - 130	
2-Fluorophenol (SS)	%	58	10 - 130	

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QUALITY CONTROL DATA

Lab Order: A050617
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Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2032
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Surrogates

Parameter	Units	Spike Rec %	Control Limits	Qual
Nitrobenzene-d5 (SS)	%	84	10 - 130	
Phenol-d6 (SS)	%	37	10 - 130	
Terphenyl-d14 (SS)	%	127	15 - 170	

Laboratory Control Sample (267879); Laboratory Control Sample Dup (267880)

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acenaphthene	ug/L	50	45	53	90	106	47 - 145	16	40	
Acenaphthylene	ug/L	50	43	49	86	98	33 - 145	13	40	
Anthracene	ug/L	50	53	54	106	108	27 - 133	2	40	
Benzidine	ug/L	50	8.1	9.1	16	18	1 - 130	12	40	
Benzo(a)anthracene	ug/L	50	54	55	108	110	33 - 143	2	40	
Benzo(a)pyrene	ug/L	50	64	65	128	130	17 - 163	2	40	
Benzo(b)fluoranthene	ug/L	50	64	65	128	130	24 - 159	2	40	
Benzo(g,h,i)perylene	ug/L	50	54	53	108	106	1 - 219	2	40	
Benzo(k)fluoranthene	ug/L	50	67	67	134	134	11 - 162	0	40	
Benzyl butyl phthalate	ug/L	50	65	65	130	130	1 - 152	0	40	
4-Bromophenyl phenyl ether	ug/L	50	54	55	108	110	53 - 127	2	40	
bis(2-Chloroethoxy) methane	ug/L	50	43	49	86	98	33 - 184	13	40	
bis(2-Chloroethyl) ether	ug/L	50	40	46	80	92	12 - 158	14	40	
bis(2-Chloroisopropyl) ether	ug/L	50	39	44	78	88	36 - 166	12	40	
4-Chloro-3-methylphenol	ug/L	100	105	111	105	111	22 - 147	6	40	
2-Chloronaphthalene	ug/L	50	43	49	86	98	60 - 120	13	40	
2-Chlorophenol	ug/L	100	86	96	86	96	23 - 134	11	40	
4-Chlorophenyl phenyl ether	ug/L	50	52	56	104	112	25 - 158	7	40	
Chrysene	ug/L	50	63	63	126	126	17 - 168	0	40	
Dibenzo(a,h)anthracene	ug/L	50	62	63	124	126	1 - 227	2	40	
3,3'-Dichlorobenzidine	ug/L	50	37	40	74	80	1 - 262	8	40	
2,4-Dichlorophenol	ug/L	100	97	111	97	111	39 - 135	13	40	
Diethylphthalate	ug/L	50	53	55	106	110	1 - 120	4	40	
2,4-Dimethylphenol	ug/L	100	90	104	90	104	32 - 120	14	40	
Dimethylphthalate	ug/L	50	55	58	110	116	1 - 120	5	40	
Di-n-butylphthalate	ug/L	50	53	51	106	102	1 - 120	4	40	
2,4-Dinitrophenol	ug/L	100	85	91	85	91	1 - 191	7	40	
2,4-Dinitrotoluene	ug/L	50	58	58	116	116	39 - 139	0	40	
2,6-Dinitrotoluene	ug/L	50	55	58	110	116	50 - 158	5	40	
Di-n-octylphthalate	ug/L	50	64	65	128	130	4 - 146	2	40	
1,2Diphenylhydrazine/Azobenzen	ug/L	50	50	53	100	106	30 - 130	6	40	
bis(2-Ethylhexyl) phthalate	ug/L	50	65	66	130	132	8 - 158	2	40	
Fluoranthene	ug/L	50	61	61	122	122	26 - 137	0	40	
Fluorene	ug/L	50	52	57	104	114	59 - 121	9	40	
Hexachlorobenzene	ug/L	50	54	55	108	110	1 - 152	2	40	
Hexachlorobutadiene	ug/L	50	34	40	68	80	24 - 120	16	40	
Hexachlorocyclo pentadiene	ug/L	50	27	30	54	60	1 - 130	11	40	
Hexachloroethane	ug/L	50	33	38	66	76	40 - 120	14	40	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2032
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	ug/L	50	62	63	124	126	1 - 171	2	40	
Isophorone	ug/L	50	39	44	78	88	21 - 196	12	40	
2-Methyl-4,6-dinitrophenol	ug/L	100	126	133	126	133	1 - 181	5	40	
2-Methylphenol (o-Cresol)	ug/L	100	86	95	86	95	35 - 130	10	40	
3 & 4-Methylphenol(m&p Cresol)	ug/L	100	83	91	83	91	25 - 130	9	40	
Naphthalene	ug/L	50	39	45	78	90	21 - 133	14	40	
Nitrobenzene	ug/L	50	38	44	76	88	35 - 180	15	40	
2-Nitrophenol	ug/L	100	93	112	93	112	29 - 182	19	40	
4-Nitrophenol	ug/L	100	55	59	55	59	1 - 132	7	40	
N-Nitrosodimethylamine	ug/L	50	33	35	66	70	25 - 130	6	40	
N-Nitroso-di-n-propylamine	ug/L	50	43	48	86	96	1 - 230	11	40	
N-Nitrosodiphenylamine	ug/L	50	57	60	114	120	30 - 130	5	40	
Pentachlorophenol	ug/L	100	101	107	101	107	14 - 176	6	40	
Phenanthrene	ug/L	50	54	55	108	110	54 - 120	2	40	
Phenol	ug/L	100	41	45	41	45	5 - 120	9	40	
Pyrene	ug/L	50	60	60	120	120	52 - 120	0	40	
1,2,4-Trichlorobenzene	ug/L	50	37	43	74	86	44 - 142	15	40	
2,4,5-Trichlorophenol	ug/L	100	109	122	109	122	45 - 130	11	40	
2,4,6-Trichlorophenol	ug/L	100	105	114	105	114	37 - 144	8	40	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	112	116	23 - 170	
2-Fluorobiphenyl (SS)	%	74	84	15 - 130	
2-Fluorophenol (SS)	%	55	59	10 - 130	
Nitrobenzene-d5 (SS)	%	73	83	10 - 130	
Phenol-d6 (SS)	%	37	39	10 - 130	
Terphenyl-d14 (SS)	%	124	121	15 - 170	

Matrix Spike (267882); Matrix Spike Dup (267883)

Parameter	A050766003 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acenaphthene	ND	ug/L	48	34	30	71	63	47 - 145	13	48	
Acenaphthylene	ND	ug/L	48	33	28	69	59	33 - 145	16	74	
Anthracene	ND	ug/L	48	50	49	105	103	27 - 133	2	66	
Benzidine	ND	ug/L	48	0.0	0.0	RNC	RNC	**1 - 130**	0	40	2
Benzo(a)anthracene	ND	ug/L	48	47	49	99	103	33 - 143	4	53	
Benzo(a)pyrene	ND	ug/L	48	53	51	111	107	17 - 163	4	72	
Benzo(b)fluoranthene	ND	ug/L	48	56	57	118	120	24 - 159	2	71	
Benzo(g,h,i)perylene	ND	ug/L	48	42	38	88	80	1 - 219	10	97	
Benzo(k)fluoranthene	ND	ug/L	48	55	55	116	116	11 - 162	0	63	
Benzyl butyl phthalate	ND	ug/L	48	57	59	120	124	1 - 152	3	60	
4-Bromophenyl phenyl ether	ND	ug/L	48	46	45	97	95	53 - 127	2	43	
bis(2-Chloroethoxy) methane	ND	ug/L	48	28	25	59	53	33 - 184	11	54	
bis(2-Chloroethyl) ether	ND	ug/L	48	26	24	55	50	12 - 158	8	108	
bis(2-Chloroisopropyl) ether	ND	ug/L	48	24	22	50	46	36 - 166	9	76	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2032
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	A050766003 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
4-Chloro-3-methylphenol	ND	ug/L	95	83	70	87	74	22 - 147	17	73	
2-Chloronaphthalene	ND	ug/L	48	28	25	**59**	**53**	**60 - 120**	11	24	1
2-Chlorophenol	ND	ug/L	95	49	42	51	44	23 - 134	15	61	
4-Chlorophenyl phenyl ether	ND	ug/L	48	42	36	88	76	25 - 158	15	61	
Chrysene	ND	ug/L	48	56	59	118	124	17 - 168	5	87	
Dibenzo(a,h)anthracene	ND	ug/L	48	49	46	103	97	1 - 227	6	126	
3,3'-Dichlorobenzidine	ND	ug/L	48	19	19	40	40	1 - 262	0	108	
2,4-Dichlorophenol	ND	ug/L	95	60	51	63	54	39 - 135	16	50	
Diethylphthalate	ND	ug/L	48	51	48	107	101	1 - 120	6	100	
2,4-Dimethylphenol	ND	ug/L	95	60	51	63	54	32 - 120	16	58	
Dimethylphthalate	ND	ug/L	48	51	46	107	97	1 - 120	10	183	
Di-n-butylphthalate	ND	ug/L	48	50	48	105	101	1 - 120	4	47	
2,4-Dinitrophenol	ND	ug/L	95	87	81	91	85	1 - 191	7	132	
2,4-Dinitrotoluene	ND	ug/L	48	52	51	109	107	39 - 139	2	42	
2,6-Dinitrotoluene	ND	ug/L	48	50	45	105	95	50 - 158	11	48	
Di-n-octylphthalate	ND	ug/L	48	55	59	116	124	4 - 146	7	69	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	48	43	41	90	86	1 - 130	5	40	
bis(2-Ethylhexyl) phthalate	ND	ug/L	48	59	61	124	128	8 - 158	3	82	
Fluoranthene	ND	ug/L	48	54	56	113	118	26 - 137	4	66	
Fluorene	ND	ug/L	48	43	39	90	82	59 - 121	10	38	
Hexachlorobenzene	ND	ug/L	48	47	45	99	95	1 - 152	4	55	
Hexachlorobutadiene	ND	ug/L	48	20	19	42	40	24 - 120	5	62	
Hexachlorocyclo pentadiene	ND	ug/L	48	18	13	38	27	1 - 130	32	40	
Hexachloroethane	ND	ug/L	48	19	18	40	**38**	**40 - 120**	5	52	1
Indeno(1,2,3-cd)pyrene	ND	ug/L	48	49	45	103	95	1 - 171	9	99	
Isophorone	ND	ug/L	48	30	26	63	55	1 - 130	14	93	
2-Methyl-4,6-dinitrophenol	ND	ug/L	95	117	117	123	123	1 - 181	0	203	
2-Methylphenol (o-Cresol)	ND	ug/L	95	50	41	53	43	1 - 130	20	40	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	95	50	41	53	43	1 - 130	20	40	
Naphthalene	ND	ug/L	48	24	22	50	46	21 - 133	9	65	
Nitrobenzene	ND	ug/L	48	24	23	50	48	35 - 180	4	62	
2-Nitrophenol	ND	ug/L	95	55	49	58	51	29 - 182	12	55	
4-Nitrophenol	ND	ug/L	95	45	43	47	45	1 - 132	5	131	
N-Nitrosodimethylamine	ND	ug/L	48	22	18	46	38	1 - 130	20	40	
N-Nitroso-di-n-propylamine	ND	ug/L	48	28	25	59	53	1 - 230	11	87	
N-Nitrosodiphenylamine	ND	ug/L	48	51	49	107	103	1 - 155	4	40	
Pentachlorophenol	ND	ug/L	95	94	93	99	98	14 - 176	1	86	
Phenanthrene	ND	ug/L	48	50	49	105	103	54 - 120	2	39	
Phenol	ND	ug/L	95	24	20	25	21	5 - 120	18	64	
Pyrene	ND	ug/L	48	54	55	113	116	52 - 120	2	49	
1,2,4-Trichlorobenzene	ND	ug/L	48	21	20	44	**42**	**44 - 142**	5	50	1
2,4,5-Trichlorophenol	ND	ug/L	95	90	77	95	81	1 - 130	16	40	
2,4,6-Trichlorophenol	ND	ug/L	95	78	67	82	70	37 - 144	15	58	

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QUALITY CONTROL DATA

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2032
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	105	96	1 - 200	
2-Fluorobiphenyl (SS)	%	54	48	1 - 130	
2-Fluorophenol (SS)	%	30	25	1 - 130	
Nitrobenzene-d5 (SS)	%	49	44	1 - 130	
Phenol-d6 (SS)	%	21	18	1 - 130	
Terphenyl-d14 (SS)	%	110	115	1 - 200	

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QUALITY CONTROL DATA QUALIFIERS

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

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	Low Matrix Spike recovery(ies) due to possible matrix interferences in the QC sample. QC batch accepted based on LCS and RPD results.
2	RNC = Recovery Not Calculated. Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were not calculated due to matrix interferences concealing the added spike concentration.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: A050617
Project ID: MDLK FAILFSAFE EFF ANNUAL 2025

Lab ID	Sample ID	Prep Batch	Prep Method
MMS/2231 - EPA 200.8			
A050617001	MDLK FAILSAFE EFF	MPR/2943	EPA 200.8
SMS/1859 - EPA 625.1			
A050617001	MDLK FAILSAFE EFF	SPR/2032	EPA 625.1
SMS/1869 - EPA 625.1			
A050617001	MDLK FAILSAFE EFF	SPR/2022	EPA 625.1

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Caltest
ANALYTICAL LABORATORY

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SAMPLE CHAIN OF CUSTODY

PAGE ____ OF ____

CLIENT: Encina Wastewater Authority
MAILING ADDRESS: 6200 Avenida Encinas
BILLING ADDRESS:
PHONE NUMBER: (760)268-8801
EMAIL ADDRESS: rachael@encinajpa.com
REPORT ATTN:
CITY: Carlsbad
ATTN:
SAMPLER (PRINT & SIGN NAME): AS
STATE: CA
ZIP: 92011
PROJECT NAME / PROJECT NUMBER: MDLK Failsafe Effluent Annual 2025
P.O. NUMBER
LAB ORDER # A05 0617

TURN-AROUND TIME
[X] STANDARD
[ ] RUSH
DUE DATE: ____

REGULATORY DRINKING WATER?
___ Yes / _X_ No
If Yes, write 13-digit CLIP Code(s) below:

CALTEST SAMPLE #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	EPA 624 LL	Acrolein & Acrylonitrile	EPA 625 LL + PAH + OCP's	EPA 200.8 Sb, As, Cr, Cu, Pb, Ni, Cd, Be, Se, Tl, Ag, Zn
1	5/15/25	0827	WW	VOA/3	HCl	MDLK Failsafe Eff		Grab	X			
2	5/15/25	0827	WW	VOA/3	Ice	MDLK Failsafe Eff		Grab		X		
*	5/14-15/25	0700 - 0700	WW	AL/3	Ice	MDLK Failsafe Eff		Comp			X	
*	5/14-15/25	0700 - 0700	WW	HDPE/1	HNO3	MDLK Failsafe Eff		Comp				X

RELINQUISHED BY: Sam — DATE/TIME: 5/15/25 1200 — RECEIVED BY: Fedex — ON ICE: (Y) N

RELINQUISHED BY: Fed ex — DATE/TIME: 5/16/25 0920 — RECEIVED BY: Summers

FOR LAB USE ONLY
TEMP: 2.9 °C / 3.2 °C — SEALED: (Y) N — INTACT: (Y) N — ON ICE: (Y) N

REPORTING OPTIONS (Choose One): ___ EMAIL ___ MAIL ___ BOTH

COMMENTS: *per client email cancel 624. NW 5/16/25

Please do not dilute metals sample*

Please provide detection limits & reporting limits

Samples: WC MICRO BIO MET SV VOA
BD: WC MET VOA
SIL: HP PT QT VOA SUB
W/HNO3 H2SO4 NaOH
PIL: HNO3 H2SO4 NaOH HCl

*MATRIX: W = Aqueous Nondrinking Water, Digested Metals; ML = Final Effluent, Minimum-Level/Low-Level R.L.; DW = Drinking Water; SL = Soil, Sludge, Solid ; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 mL Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz BACT; BT = Brass Tube; VOA = 40mL VOA; OTC = Other Type Container

05/15/25

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

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NELAP/ORELAP Cert# 4036

Caltest ANALYTICAL LABORATORY
ENVIRONMENTAL ANALYSES

CA-ELAP Cert# 1664

Anomaly Form

Client: Encina Wastewater Caltest Work Order#: A050617

Attention: _____ Date Received: 5/16/25

Project Name/ID: MDLK Failsafe Effluent Annual 2025 Caltest Contact: _____

In order to comply with NELAC regulations, authorization is needed to proceed with analyses.

The following anomalies were noted (check all that apply):

Temperature >6°C: _____ Temperature: (as read/with correction factor): 2.9 °C/ 3.2 °C

Coolant Used: _____

Sample ID discrepancy: _____ Affected sample(s): _____

Sample holding time: _____ Affected sample(s): _____

Insufficient sample volume/size: _____ Affected sample(s): _____

Sample container broken: _____ Affected sample(s): _____

Incorrect container: _____ Affected sample(s): _____

Bubbles/headspace in VOA vials: ✓ Affected sample(s): _____

Comments/Other: All VOA's have bubbles more than 6mm. Both preserved and unpreserved. SS 5/16/25

Complete this section and email back to your project manager and/or pmgr@caltestlabs.com.

Authorization:

Proceed with analyses (circle one): Yes (No)

Signature: [signature]

Date: 5-16-25

Client Comments or instructions: Per client email. Proceed for other analyses.

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SC-SAMPREC2 Page 1 of 1 06162020SRR

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September 02, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2508160

Ms. Rachel Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Dear Ms. Morgan,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on August 15, 2025 under your Project Name 'Encina Effluent Dioxins'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Silke Ann Mariz Mariano For Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2508160
Case Narrative

Sample Condition on Receipt:

One aqueous sample was received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The sample was received in good condition and within the method temperature requirements. A sample ID discrepancy was noted for the sample between the container label and the Chain-of-Custody (CoC). The sample ID has been reported as listed on the CoC.

Analytical Notes:

EPA Method 1613B

The sample was extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-DIOXIN GC column.

Holding Times

The sample was extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

Table of Contents

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2508160-01	EWA EFF	13-Aug-25 07:00	15-Aug-25 09:50	Amber Glass WM Bottle, 1L Amber Glass WM Bottle, 1L

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1613B

Client Data
Name: Encina Wastewater Authority
Project: Encina Effluent Dioxins
Matrix: Aqueous

Laboratory Data
Lab Sample: B25H279-BLK1
QC Batch: B25H279
Sample Size: 1.00 L
Date Extracted: 26-Aug-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.912	3.92		5.00		29-Aug-25 01:20	1
1,2,3,7,8-PeCDD	ND	1.41	8.32		25.0		29-Aug-25 01:20	1
1,2,3,4,7,8-HxCDD	ND	1.57	6.58		25.0		29-Aug-25 01:20	1
1,2,3,6,7,8-HxCDD	ND	1.65	5.81		25.0		29-Aug-25 01:20	1
1,2,3,7,8,9-HxCDD	ND	1.69	5.99		25.0		29-Aug-25 01:20	1
1,2,3,4,6,7,8-HpCDD	ND	2.52	5.53		25.0		29-Aug-25 01:20	1
OCDD	ND	3.03	16.3		50.0		29-Aug-25 01:20	1
2,3,7,8-TCDF	ND	1.16	1.74		5.00		29-Aug-25 01:20	1
1,2,3,7,8-PeCDF	ND	0.665	6.71		25.0		29-Aug-25 01:20	1
2,3,4,7,8-PeCDF	ND	0.568	7.55		25.0		29-Aug-25 01:20	1
1,2,3,4,7,8-HxCDF	ND	1.21	6.81		25.0		29-Aug-25 01:20	1
1,2,3,6,7,8-HxCDF	ND	1.20	6.11		25.0		29-Aug-25 01:20	1
2,3,4,6,7,8-HxCDF	ND	1.48	5.93		25.0		29-Aug-25 01:20	1
1,2,3,7,8,9-HxCDF	ND	2.02	6.34		25.0		29-Aug-25 01:20	1
1,2,3,4,6,7,8-HpCDF	ND	0.963	6.28		25.0		29-Aug-25 01:20	1
1,2,3,4,7,8,9-HpCDF	ND	1.53	7.33		25.0		29-Aug-25 01:20	1
OCDF	ND	1.70	13.6		50.0		29-Aug-25 01:20	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00							
Totals								
Total TCDD	ND	0.912			5.00			
Total PeCDD	ND	1.41			25.0			
Total HxCDD	ND	1.69			25.0			
Total HpCDD	ND	2.52			25.0			
Total TCDF	ND			2.33	5.00			
Total PeCDF	ND	0.665			25.0			
Total HxCDF	ND	2.02			25.0			
Total HpCDF	ND	1.53			25.0			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	75.6	25 - 164		29-Aug-25 01:20	1
13C-1,2,3,7,8-PeCDD	IS	71.3	25 - 181		29-Aug-25 01:20	1
13C-1,2,3,4,7,8-HxCDD	IS	72.7	32 - 141		29-Aug-25 01:20	1
13C-1,2,3,6,7,8-HxCDD	IS	76.7	28 - 130		29-Aug-25 01:20	1
13C-1,2,3,7,8,9-HxCDD	IS	72.6	32 - 141		29-Aug-25 01:20	1
13C-1,2,3,4,6,7,8-HpCDD	IS	74.9	23 - 140		29-Aug-25 01:20	1
13C-OCDD	IS	71.3	17 - 157		29-Aug-25 01:20	1
13C-2,3,7,8-TCDF	IS	74.5	24 - 169		29-Aug-25 01:20	1
13C-1,2,3,7,8-PeCDF	IS	62.5	24 - 185		29-Aug-25 01:20	1
13C-2,3,4,7,8-PeCDF	IS	59.5	21 - 178		29-Aug-25 01:20	1
13C-1,2,3,4,7,8-HxCDF	IS	79.6	26 - 152		29-Aug-25 01:20	1
13C-1,2,3,6,7,8-HxCDF	IS	77.3	26 - 123		29-Aug-25 01:20	1
13C-2,3,4,6,7,8-HxCDF	IS	77.3	28 - 136		29-Aug-25 01:20	1
13C-1,2,3,7,8,9-HxCDF	IS	80.4	29 - 147		29-Aug-25 01:20	1
13C-1,2,3,4,6,7,8-HpCDF	IS	87.2	28 - 143		29-Aug-25 01:20	1
13C-1,2,3,4,7,8,9-HpCDF	IS	83.8	26 - 138		29-Aug-25 01:20	1
13C-OCDF	IS	76.1	17 - 157		29-Aug-25 01:20	1
37Cl-2,3,7,8-TCDD	CRS	112	35 - 197		29-Aug-25 01:20	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

Sample ID: OPR **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: Encina Effluent Dioxins
Matrix: Aqueous

Laboratory Data
Lab Sample: B25H279-BS1
QC Batch: B25H279 Date Extracted: 26-Aug-25 16:16
Sample Size: 1.00 L Column: ZB-DIOXIN

Analyte	Amt Found (pg/L)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	234	200	117	67-158		28-Aug-25 23:49	1
1,2,3,7,8-PeCDD	1140	1000	114	70-142		28-Aug-25 23:49	1
1,2,3,4,7,8-HxCDD	1130	1000	113	70-164		28-Aug-25 23:49	1
1,2,3,6,7,8-HxCDD	1080	1000	108	76-134		28-Aug-25 23:49	1
1,2,3,7,8,9-HxCDD	1150	1000	115	64-162		28-Aug-25 23:49	1
1,2,3,4,6,7,8-HpCDD	1140	1000	114	70-140		28-Aug-25 23:49	1
OCDD	2270	2000	113	78-144		28-Aug-25 23:49	1
2,3,7,8-TCDF	240	200	120	75-158		28-Aug-25 23:49	1
1,2,3,7,8-PeCDF	1160	1000	116	80-134		28-Aug-25 23:49	1
2,3,4,7,8-PeCDF	1200	1000	120	68-160		28-Aug-25 23:49	1
1,2,3,4,7,8-HxCDF	1250	1000	125	72-134		28-Aug-25 23:49	1
1,2,3,6,7,8-HxCDF	1290	1000	129	84-130		28-Aug-25 23:49	1
2,3,4,6,7,8-HxCDF	1260	1000	126	70-156		28-Aug-25 23:49	1
1,2,3,7,8,9-HxCDF	1270	1000	127	78-130		28-Aug-25 23:49	1
1,2,3,4,6,7,8-HpCDF	1190	1000	119	82-122		28-Aug-25 23:49	1
1,2,3,4,7,8,9-HpCDF	1190	1000	119	78-138		28-Aug-25 23:49	1
OCDF	2330	2000	117	63-170		28-Aug-25 23:49	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	80.0	20-175		28-Aug-25 23:49	1
13C-1,2,3,7,8-PeCDD	IS	79.2	21-227		28-Aug-25 23:49	1
13C-1,2,3,4,7,8-HxCDD	IS	76.0	21-193		28-Aug-25 23:49	1
13C-1,2,3,6,7,8-HxCDD	IS	80.9	25-163		28-Aug-25 23:49	1
13C-1,2,3,7,8,9-HxCDD	IS	76.2	21-193		28-Aug-25 23:49	1
13C-1,2,3,4,6,7,8-HpCDD	IS	78.9	26-166		28-Aug-25 23:49	1
13C-OCDD	IS	76.2	13-199		28-Aug-25 23:49	1
13C-2,3,7,8-TCDF	IS	78.4	22-152		28-Aug-25 23:49	1
13C-1,2,3,7,8-PeCDF	IS	66.8	21-192		28-Aug-25 23:49	1
13C-2,3,4,7,8-PeCDF	IS	65.6	13-328		28-Aug-25 23:49	1
13C-1,2,3,4,7,8-HxCDF	IS	81.2	19-202		28-Aug-25 23:49	1
13C-1,2,3,6,7,8-HxCDF	IS	80.0	21-159		28-Aug-25 23:49	1
13C-2,3,4,6,7,8-HxCDF	IS	82.3	22-176		28-Aug-25 23:49	1
13C-1,2,3,7,8,9-HxCDF	IS	81.3	17-205		28-Aug-25 23:49	1
13C-1,2,3,4,6,7,8-HpCDF	IS	92.0	21-158		28-Aug-25 23:49	1
13C-1,2,3,4,7,8,9-HpCDF	IS	89.3	20-186		28-Aug-25 23:49	1
13C-OCDF	IS	83.9	13-199		28-Aug-25 23:49	1
37Cl-2,3,7,8-TCDD	CRS	117	31-191		28-Aug-25 23:49	1

Sample ID: EWA EFF **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: Encina Effluent Dioxins
Matrix: Aqueous
Date Collected: 13-Aug-25 07:00

Laboratory Data
Lab Sample: 2508160-01
QC Batch: B25H279
Sample Size: 0.958 L
Date Received: 15-Aug-25 09:50
Date Extracted: 26-Aug-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.56	4.09		5.22		29-Aug-25 02:06	1
1,2,3,7,8-PeCDD	ND	2.00	8.68		26.1		29-Aug-25 02:06	1
1,2,3,4,7,8-HxCDD	ND	2.46	6.87		26.1		29-Aug-25 02:06	1
1,2,3,6,7,8-HxCDD	ND	2.22	6.06		26.1		29-Aug-25 02:06	1
1,2,3,7,8,9-HxCDD	ND	2.34	6.25		26.1		29-Aug-25 02:06	1
1,2,3,4,6,7,8-HpCDD	ND	3.25	5.77		26.1		29-Aug-25 02:06	1
OCDD	ND	5.90	17.0		52.2		29-Aug-25 02:06	1
2,3,7,8-TCDF	ND	0.926	1.82		5.22		29-Aug-25 02:06	1
1,2,3,7,8-PeCDF	ND	1.18	7.00		26.1		29-Aug-25 02:06	1
2,3,4,7,8-PeCDF	ND	1.00	7.88		26.1		29-Aug-25 02:06	1
1,2,3,4,7,8-HxCDF	ND	1.52	7.11		26.1		29-Aug-25 02:06	1
1,2,3,6,7,8-HxCDF	ND	1.52	6.38		26.1		29-Aug-25 02:06	1
2,3,4,6,7,8-HxCDF	ND	1.60	6.19		26.1		29-Aug-25 02:06	1
1,2,3,7,8,9-HxCDF	ND	2.21	6.62		26.1		29-Aug-25 02:06	1
1,2,3,4,6,7,8-HpCDF	ND	1.18	6.55		26.1		29-Aug-25 02:06	1
1,2,3,4,7,8,9-HpCDF	ND	1.80	7.65		26.1		29-Aug-25 02:06	1
OCDF	ND	2.33	14.2		52.2		29-Aug-25 02:06	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00							
Totals								
Total TCDD	ND	1.56			5.22			
Total PeCDD	ND			1.47	26.1			
Total HxCDD	ND			1.23	26.1			
Total HpCDD	ND	3.25			26.1			
Total TCDF	ND			1.11	5.22			
Total PeCDF	ND	1.18			26.1			
Total HxCDF	ND	2.21			26.1			
Total HpCDF	ND	1.80			26.1			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	70.0	25 - 164		29-Aug-25 02:06	1
13C-1,2,3,7,8-PeCDD	IS	63.3	25 - 181		29-Aug-25 02:06	1
13C-1,2,3,4,7,8-HxCDD	IS	67.9	32 - 141		29-Aug-25 02:06	1
13C-1,2,3,6,7,8-HxCDD	IS	72.3	28 - 130		29-Aug-25 02:06	1
13C-1,2,3,7,8,9-HxCDD	IS	70.0	32 - 141		29-Aug-25 02:06	1
13C-1,2,3,4,6,7,8-HpCDD	IS	69.7	23 - 140		29-Aug-25 02:06	1
13C-OCDD	IS	63.2	17 - 157		29-Aug-25 02:06	1
13C-2,3,7,8-TCDF	IS	70.8	24 - 169		29-Aug-25 02:06	1
13C-1,2,3,7,8-PeCDF	IS	55.4	24 - 185		29-Aug-25 02:06	1
13C-2,3,4,7,8-PeCDF	IS	51.5	21 - 178		29-Aug-25 02:06	1
13C-1,2,3,4,7,8-HxCDF	IS	72.3	26 - 152		29-Aug-25 02:06	1
13C-1,2,3,6,7,8-HxCDF	IS	73.5	26 - 123		29-Aug-25 02:06	1
13C-2,3,4,6,7,8-HxCDF	IS	73.4	28 - 136		29-Aug-25 02:06	1
13C-1,2,3,7,8,9-HxCDF	IS	74.7	29 - 147		29-Aug-25 02:06	1
13C-1,2,3,4,6,7,8-HpCDF	IS	79.9	28 - 143		29-Aug-25 02:06	1
13C-1,2,3,4,7,8,9-HpCDF	IS	76.7	26 - 138		29-Aug-25 02:06	1
13C-OCDF	IS	71.4	17 - 157		29-Aug-25 02:06	1
37Cl-2,3,7,8-TCDD	CRS	112	35 - 197		29-Aug-25 02:06	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

ENTHALPY ANALYTICAL

CHAIN OF CUSTODY

GC/HRMS Methods

For Laboratory Use Only
Laboratory Project ID: 2508160 Temp: 0.6 °C
Storage ID: WR-2 Storage Secured: ☑ Yes ☐ No

Project ID: Encina Effluent Dioxins P.O.#: 20260077 Sampler: S. Nguyen (name)

TAT (check one): Standard: ☐ 21 days; Rush (surcharge may apply): ☐ 14 days ☐ 7 days Other:

Invoice to: Name	Company	Address	City	State	Phone #
	Encina Wastewater Authority	6200 Avenida Encinas	Carlsbad	CA	(619)972-7178

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
	8/14/25	1000	Karen Shorta IG	08/15/25	09:50
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

SHIP TO: Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

ATTN:

Method of Shipment:

Tracking No.:

Add Analysis(es) Requested

Container(s)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	EPA 1613: Dioxins & Furans 2378-TCDD	EPA 1613: Dioxins & Furans 2378 TCDD/TCDF	EPA 1613: Dioxins & Furans PCDD/PCDF	EPA 1613: Dioxins & Furans Full List	EPA 8290: Dioxins & Furans 2378-TCDD	EPA 8290: Dioxins & Furans 2378-TCDD/TCDF	EPA 8290: Dioxins & Furans PCDD/PCDF	EPA 8290: Dioxins & Furans Full List	EPA 1668 Homolog Totals only	EPA 1668 Coplanar PCBs	EPA 1668 WHO-29 List	EPA 1668 209 CONGENERS	EPA 1625 PAHs	EPA 1699 Pesticides	Other		Comments
EWA EFF	8/13-14/25	0700-0700		2	AL					X													

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:

Name:
Company:
Address:
City: State: Zip:
Phone:
Email:

Container Types: A = 1 Liter Amber, G = Amber Glass Jar, O = Other:

Bottle Preservation: ☐ TZ = Trizma, ☐ = Other:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

CoC/Label Reconciliation Report WO# 2508160

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2508160-01	A EWA EFF	☑ A		13-Aug-25 07:00	☑ D	Amber Glass WM Bottle, 1L	Aqueous	
2508160-01	B EWA EFF	☑ A		13-Aug-25 07:00	☑ D	Amber Glass WM Bottle, 1L	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

Comments:
A Underlined part listed on sample label "Effluent"
D COC and sample label list start/end date and time
Used start date/time

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: LA 08/15/25
JT 08/15/25

Monday, September 15, 2025

Rachael Morgan
Encina Wastewater Authority La
6200 Avenida Encinas
Carlsbad, CA 92011

Re	Lab Order:	A080835	Collected By:	SN
	Project ID:	ENCINA EFFLUENT SEMI ANN 2025	PO/Contract#:	20260040

Dear Rachael Morgan:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, August 22, 2025. 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

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • e-mail: info@caltestlabs.com

SAMPLE SUMMARY

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
A080835001	ENCINA EFFLUENT	Water (ML)	08/21/25 07:15	08/22/25 09:20
A080835002	ENCINA EFFLUENT	Water (ML)	08/21/25 07:00	08/22/25 09:20

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NARRATIVE

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

General Qualifiers and Notes

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.

Qualifiers and Compound Notes

1	This sample was selected for the batch matrix spike/matrix spike duplicate quality control sample. The percent recovery(ies) of the matrix spike(s) for this analyte was outside established control limits, possibly due to matrix interferences. Please refer to QC section for more information.

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ANALYTICAL RESULTS

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Lab ID A080835001 **Date Collected:** 08/21/25 07:15 **Matrix:** Water (ML)
Sample ID ENCINA EFFLUENT **Date Received:** 08/22/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Volatile Organic Analysis			**Analytical Method:**	EPA 624.1				**Analyzed By:**	AN	
Acrolein	ND	ug/L	2.0	0.81	1			08/22/25 13:51	VMS 1859	
Acrylonitrile	ND	ug/L	2.0	1.3	1			08/22/25 13:51	VMS 1859	
Benzene	ND	ug/L	0.50	0.18	1			08/22/25 13:51	VMS 1859	
Bromodichloromethane	ND	ug/L	0.50	0.080	1			08/22/25 13:51	VMS 1859	
Bromoform	ND	ug/L	0.50	0.15	1			08/22/25 13:51	VMS 1859	
Bromomethane (Methyl Bromide)	ND	ug/L	0.50	0.13	1			08/22/25 13:51	VMS 1859	
Carbon tetrachloride	ND	ug/L	0.50	0.21	1			08/22/25 13:51	VMS 1859	
Chlorobenzene	ND	ug/L	0.50	0.18	1			08/22/25 13:51	VMS 1859	
Chloroethane (Ethyl Chloride)	ND	ug/L	0.50	0.46	1			08/22/25 13:51	VMS 1859	
2-Chloroethyl vinyl ether	ND	ug/L	1.0	0.36	1			08/22/25 13:51	VMS 1859	
Chloroform	**J0.47**	ug/L	0.50	0.17	1			08/22/25 13:51	VMS 1859	
Chloromethane(Methyl Chloride)	ND	ug/L	0.50	0.46	1			08/22/25 13:51	VMS 1859	
Dibromochloromethane	ND	ug/L	0.25	0.17	1			08/22/25 13:51	VMS 1859	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.27	1			08/22/25 13:51	VMS 1859	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.18	1			08/22/25 13:51	VMS 1859	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.18	1			08/22/25 13:51	VMS 1859	
Dichlorodifluoromethane (F-12)	ND	ug/L	0.50	0.32	1			08/22/25 13:51	VMS 1859	
1,1-Dichloroethane	ND	ug/L	0.50	0.41	1			08/22/25 13:51	VMS 1859	
1,2-Dichloroethane (EDC)	ND	ug/L	0.50	0.17	1			08/22/25 13:51	VMS 1859	
1,1-Dichloroethene	ND	ug/L	0.50	0.39	1			08/22/25 13:51	VMS 1859	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.15	1			08/22/25 13:51	VMS 1859	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.10	1			08/22/25 13:51	VMS 1859	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	1			08/22/25 13:51	VMS 1859	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.090	1			08/22/25 13:51	VMS 1859	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.46	1			08/22/25 13:51	VMS 1859	
Dichlorotrifluoroethane (F123)	ND	ug/L	0.50	0.14	1			08/22/25 13:51	VMS 1859	
Ethylbenzene	ND	ug/L	0.50	0.10	1			08/22/25 13:51	VMS 1859	
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50	0.15	1			08/22/25 13:51	VMS 1859	
Methylene chloride	ND	ug/L	0.50	0.49	1			08/22/25 13:51	VMS 1859	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.23	1			08/22/25 13:51	VMS 1859	
Tetrachloroethene (PCE)	ND	ug/L	0.50	0.19	1			08/22/25 13:51	VMS 1859	
Toluene	ND	ug/L	0.50	0.19	1			08/22/25 13:51	VMS 1859	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.24	1			08/22/25 13:51	VMS 1859	
1,1,1-Trichloroethane (TCA)	ND	ug/L	0.50	0.46	1			08/22/25 13:51	VMS 1859	
Trichloroethene (TCE)	ND	ug/L	0.50	0.20	1			08/22/25 13:51	VMS 1859	
Trichlorofluoromethane (F-11)	ND	ug/L	0.50	0.29	1			08/22/25 13:51	VMS 1859	
Trichlorotrifluoroethane F-113	ND	ug/L	1.0	0.13	1			08/22/25 13:51	VMS 1859	
Vinyl chloride	ND	ug/L	0.50	0.25	1			08/22/25 13:51	VMS 1859	
Xylenes, total	ND	ug/L	0.50	0.47	1			08/22/25 13:51	VMS 1859	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
1,2-Dichloroethane-d4 (SS)	105%	57 - 148			08/22/25 13:51	VMS 1859	
4-Bromofluorobenzene (SS)	100%	80 - 120			08/22/25 13:51	VMS 1859	
Dibromofluoromethane (SS)	105%	63 - 142			08/22/25 13:51	VMS 1859	
Toluene-d8 (SS)	96%	46 - 145			08/22/25 13:51	VMS 1859	

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ANALYTICAL RESULTS

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Lab ID A080835002 **Date Collected:** 08/21/25 07:00 **Matrix:** Water (ML)
Sample ID ENCINA EFFLUENT **Date Received:** 08/22/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Chlorinated Pesticides & PCBs Analysis			**Prep Method:**	EPA 625.1				**Prepared By:**	AP	
			Analytical Method:	EPA 625.1				**Analyzed By:**	MDT	
Aldrin	ND	ug/L	0.0050	0.0014	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
alpha-BHC	ND	ug/L	0.010	0.0026	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
beta-BHC	ND	ug/L	0.0050	0.0029	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
delta-BHC	ND	ug/L	0.0050	0.0035	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
gamma-BHC (Lindane)	ND	ug/L	0.010	0.0022	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Chlordane	ND	ug/L	0.010	0.0034	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
4,4'-DDD	ND	ug/L	0.010	0.0021	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
4,4'-DDE	ND	ug/L	0.010	0.00090	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
4,4'-DDT	ND	ug/L	0.010	0.0038	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Dieldrin	ND	ug/L	0.010	0.0017	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Endosulfan I	ND	ug/L	0.010	0.0042	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Endosulfan II	ND	ug/L	0.010	0.0023	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Endosulfan sulfate	ND	ug/L	0.010	0.0011	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Endrin	ND	ug/L	0.010	0.0027	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Endrin aldehyde	ND	ug/L	0.010	0.0034	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Endrin ketone	ND	ug/L	0.010	0.0040	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Heptachlor	ND	ug/L	0.010	0.0031	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Heptachlor epoxide	ND	ug/L	0.010	0.0027	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Methoxychlor	ND	ug/L	0.010	0.0035	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1016	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1221	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1232	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1242	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1248	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1254	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
PCB 1260	ND	ug/L	0.10	0.030	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Toxaphene	ND	ug/L	0.50	0.40	1	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
Decachlorobiphenyl (SS)	104%	1 - 199	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	
Tetrachloro-m-xylene (SS)	84%	11 - 134	08/25/25 00:00	SPR 2128	09/01/25 22:31	SMS 1939	

Metals by ICPMS Collision Mode, Total			**Prep Method:**	EPA 200.8				**Prepared By:**	TPH	
			Analytical Method:	EPA 200.8				**Analyzed By:**	JHG	
Beryllium	ND	ug/L	0.10	0.079	1	08/27/25 13:30	MPR 3116	08/29/25 01:30	MMS 2341	
Copper	**2.9**	ug/L	0.50	0.36	1	08/27/25 13:30	MPR 3116	08/29/25 01:30	MMS 2341	
Lead	ND	ug/L	0.25	0.070	1	08/27/25 13:30	MPR 3116	08/29/25 01:30	MMS 2341	
Nickel	**3.0**	ug/L	0.50	0.082	1	08/27/25 13:30	MPR 3116	08/29/25 01:30	MMS 2341	
Silver	ND	ug/L	0.10	0.061	1	08/27/25 13:30	MPR 3116	08/29/25 01:30	MMS 2341	
Zinc	**12**	ug/L	1.0	0.78	1	08/27/25 13:30	MPR 3116	08/29/25 01:30	MMS 2341	

Pesticides, Extended List			**Prep Method:**	EPA 625.1				**Prepared By:**	AP	
			Analytical Method:	EPA 625.1				**Analyzed By:**	MDT	
2,4'-DDD	ND	ug/L	0.0050	0.0019	1	08/28/25 07:50	SPR 2132	09/04/25 19:16	SMS 1944	
2,4'-DDE	ND	ug/L	0.0050	0.0019	1	08/28/25 07:50	SPR 2132	09/04/25 19:16	SMS 1944	
2,4'-DDT	ND	ug/L	0.0050	0.0018	1	08/28/25 07:50	SPR 2132	09/04/25 19:16	SMS 1944	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
Decachlorobiphenyl (SS)	76%	1 - 199	08/28/25 07:50	SPR 2132	09/04/25 19:16	SMS 1944	
Tetrachloro-m-xylene (SS)	39%	11 - 134	08/28/25 07:50	SPR 2132	09/04/25 19:16	SMS 1944	

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ANALYTICAL RESULTS

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Lab ID A080835002 **Date Collected:** 08/21/25 07:00 **Matrix:** Water (ML)
Sample ID ENCINA EFFLUENT **Date Received:** 08/22/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Semivolatile Organic Analysis			**Prep Method:**		EPA 625.1			**Prepared By:**	AP	
			Analytical Method:		EPA 625.1			**Analyzed By:**	MDT	
Acenaphthene	ND	ug/L	0.30	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Acenaphthylene	ND	ug/L	0.20	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Anthracene	ND	ug/L	0.30	0.030	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzidine	ND	ug/L	5.0	4.0	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzo(a)anthracene	ND	ug/L	0.30	0.050	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzo(a)pyrene	ND	ug/L	0.30	0.040	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzo(b)fluoranthene	ND	ug/L	0.30	0.050	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.050	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzo(k)fluoranthene	ND	ug/L	0.30	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Benzyl butyl phthalate	ND	ug/L	5.0	2.0	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
4-Bromophenyl phenyl ether	ND	ug/L	5.0	0.23	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
bis(2-Chloroethoxy) methane	ND	ug/L	5.0	0.14	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.33	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.21	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.32	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2-Chloronaphthalene	ND	ug/L	5.0	0.28	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	1
2-Chlorophenol	ND	ug/L	2.0	0.53	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
4-Chlorophenyl phenyl ether	ND	ug/L	5.0	0.29	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Chrysene	ND	ug/L	0.30	0.050	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Dibenzo(a,h)anthracene	ND	ug/L	0.10	0.050	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
3,3'-Dichlorobenzidine	ND	ug/L	5.0	1.4	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	1
2,4-Dichlorophenol	ND	ug/L	1.0	0.45	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Diethylphthalate	ND	ug/L	2.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2,4-Dimethylphenol	ND	ug/L	2.0	0.11	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Dimethylphthalate	ND	ug/L	2.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Di-n-butylphthalate	ND	ug/L	5.0	0.40	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2,4-Dinitrophenol	ND	ug/L	5.0	0.29	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2,4-Dinitrotoluene	ND	ug/L	5.0	0.28	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2,6-Dinitrotoluene	ND	ug/L	5.0	0.22	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Di-n-octylphthalate	ND	ug/L	5.0	0.40	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	1.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
bis(2-Ethylhexyl) phthalate	ND	ug/L	1.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Fluoranthene	ND	ug/L	0.050	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Fluorene	ND	ug/L	0.10	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Hexachlorobenzene	ND	ug/L	1.0	1.0	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Hexachlorobutadiene	ND	ug/L	1.0	0.40	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Hexachlorocyclo pentadiene	ND	ug/L	1.0	0.90	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Hexachloroethane	ND	ug/L	1.0	0.40	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	1
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.050	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Isophorone	ND	ug/L	1.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2-Methyl-4,6-dinitrophenol	ND	ug/L	5.0	0.23	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2-Methylphenol (o-Cresol)	ND	ug/L	5.0	0.32	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	5.0	0.24	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Naphthalene	ND	ug/L	0.20	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Nitrobenzene	ND	ug/L	1.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2-Nitrophenol	ND	ug/L	5.0	0.38	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
4-Nitrophenol	ND	ug/L	5.0	0.30	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
N-Nitrosodimethylamine	ND	ug/L	5.0	0.70	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	0.50	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.70	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Pentachlorophenol	ND	ug/L	1.0	0.40	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Phenanthrene	ND	ug/L	0.050	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	

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ANALYTICAL RESULTS

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Lab ID A080835002 **Date Collected:** 08/21/25 07:00 **Matrix:** Water (ML)
Sample ID ENCINA EFFLUENT **Date Received:** 08/22/25 09:20

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Phenol	ND	ug/L	1.0	0.30	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Pyrene	ND	ug/L	0.050	0.020	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	0.25	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.28	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2,4,6-Trichlorophenol	ND	ug/L	2.0	0.40	1	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
2,4,6-Tribromophenol (SS)	80%	1 - 200	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2-Fluorobiphenyl (SS)	44%	1 - 130	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
2-Fluorophenol (SS)	19%	1 - 130	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Nitrobenzene-d5 (SS)	43%	1 - 130	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Phenol-d6 (SS)	13%	1 - 130	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	
Terphenyl-d14 (SS)	125%	1 - 200	08/26/25 00:00	SPR 2130	09/09/25 05:18	SMS 1942	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Metals by ICPMS Collision Mode, Total **QC Batch:** MPR/3116
Analysis Method: EPA 200.8 **QC Batch Method:** EPA 200.8

Method Blank (291225)

Parameter	Result	Units	RL	MDL	Qual
Beryllium	ND	ug/L	0.10	0.079	
Copper	ND	ug/L	0.50	0.36	
Lead	ND	ug/L	0.25	0.070	
Nickel	ND	ug/L	0.50	0.082	
Silver	ND	ug/L	0.10	0.061	
Zinc	ND	ug/L	1.0	0.78	

Laboratory Control Sample (291226)

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Qual
Beryllium	ug/L	20	21	105	85 - 115	
Copper	ug/L	20	22	110	85 - 115	
Lead	ug/L	20	22	110	85 - 115	
Nickel	ug/L	20	22	110	85 - 115	
Silver	ug/L	20	22	110	85 - 115	
Zinc	ug/L	20	21	105	85 - 115	

Matrix Spike (291227); Matrix Spike Dup (291228)

Parameter	A080029001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Beryllium	ND	ug/L	20	20	21	100	105	70 - 130	5	20	
Copper	1.5	ug/L	20	22	23	103	108	70 - 130	4	20	
Lead	ND	ug/L	20	20	20	99	99	70 - 130	0	20	
Nickel	9.8	ug/L	20	31	31	106	106	70 - 130	0	20	
Silver	ND	ug/L	20	20	20	100	100	70 - 130	0	20	
Zinc	14	ug/L	20	34	34	100	100	70 - 130	0	20	

Matrix Spike (291229); Matrix Spike Dup (291230)

Parameter	A080852001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Beryllium	ND	ug/L	20	20	20	100	100	70 - 130	0	20	
Copper	1.9	ug/L	20	23	23	106	106	70 - 130	0	20	
Lead	ND	ug/L	20	20	20	100	100	70 - 130	0	20	
Nickel	3.0	ug/L	20	24	24	105	105	70 - 130	0	20	
Zinc	J3.5	ug/L	20	24	24	103	103	70 - 130	0	20	

Analysis Description: Chlorinated Pesticides & PCBs Analysis **QC Batch:** SPR/2128
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Method Blank (290362)

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Chlorinated Pesticides & PCBs Analysis **QC Batch:** SPR/2128
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Result	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	0.00090	
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	
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	Spike Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	109	29 - 155	
Tetrachloro-m-xylene (SS)	%	55	23 - 94	

Laboratory Control Sample (290363); Laboratory Control Sample Dup (290364)

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Aldrin	ug/L	0.20	0.13	0.14	65	70	1 - 166	7	40	
alpha-BHC	ug/L	0.20	0.17	0.18	85	90	49 - 157	6	40	
beta-BHC	ug/L	0.20	0.20	0.21	100	105	24 - 149	5	40	
delta-BHC	ug/L	0.20	0.17	0.19	85	95	1 - 120	11	40	
gamma-BHC (Lindane)	ug/L	0.20	0.17	0.19	85	95	40 - 162	11	40	
Chlordane	ug/L	0.40	0.44	0.45	110	113	1 - 203	2	40	
4,4'-DDD	ug/L	0.20	0.27	0.27	135	135	1 - 145	0	40	
4,4'-DDE	ug/L	0.20	0.22	0.21	110	105	4 - 136	5	40	
4,4'-DDT	ug/L	0.20	0.28	0.29	140	145	1 - 203	4	40	
Dieldrin	ug/L	0.20	0.20	0.21	100	105	29 - 136	5	40	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Chlorinated Pesticides & PCBs Analysis **QC Batch:** SPR/2128
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Endosulfan I	ug/L	0.20	0.19	0.20	95	100	23 - 168	5	40	
Endosulfan II	ug/L	0.20	0.24	0.27	120	135	37 - 173	12	40	
Endosulfan sulfate	ug/L	0.20	0.26	0.28	**130**	**140**	1 - 120	7	40	3
Endrin	ug/L	0.20	0.28	0.29	140	145	1 - 239	4	40	
Endrin aldehyde	ug/L	0.20	0.39	0.41	195	205	1 - 209	5	40	
Endrin ketone	ug/L	0.20	0.27	0.29	135	145	26 - 217	7	40	
Heptachlor	ug/L	0.20	0.17	0.18	85	90	1 - 192	6	40	
Heptachlor epoxide	ug/L	0.20	0.19	0.19	95	95	26 - 155	0	40	
Methoxychlor	ug/L	0.20	0.30	0.30	150	150	3 - 259	0	40	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	112	112	29 - 155	
Tetrachloro-m-xylene (SS)	%	54	56	23 - 94	

Matrix Spike (290366); Matrix Spike Dup (290367)

Parameter	A080775002 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Aldrin	ND	ug/L	0.22	0.21	0.22	98	105	1 - 166	5	81	
alpha-BHC	ND	ug/L	0.22	0.19	0.19	88	90	60 - 140	0	40	
beta-BHC	ND	ug/L	0.22	0.25	0.25	116	119	24 - 149	0	61	
delta-BHC	ND	ug/L	0.22	0.24	0.25	112	119	1 - 120	4	129	
gamma-BHC (Lindane)	ND	ug/L	0.22	0.20	0.21	93	100	60 - 140	5	40	
Chlordane	ND	ug/L	0.43	0.53	0.53	123	126	60 - 140	0	40	
4,4'-DDD	ND	ug/L	0.22	0.32	0.30	**149**	143	1 - 145	6	93	4
4,4'-DDE	ND	ug/L	0.22	0.25	0.23	116	109	4 - 136	8	77	
4,4'-DDT	ND	ug/L	0.22	0.37	0.33	172	157	1 - 203	11	135	
Dieldrin	ND	ug/L	0.22	0.24	0.23	112	109	29 - 136	4	62	
Endosulfan I	ND	ug/L	0.22	0.25	0.22	116	105	60 - 140	13	40	
Endosulfan II	ND	ug/L	0.22	0.32	0.31	**149**	**147**	**60 - 140**	3	40	4
Endosulfan sulfate	ND	ug/L	0.22	0.33	0.30	**153**	**143**	**1 - 120**	10	70	4
Endrin	ND	ug/L	0.22	0.34	0.33	**158**	**157**	**60 - 140**	3	40	4
Endrin aldehyde	ND	ug/L	0.22	0.47	0.34	**219**	162	1 - 209	32	75	4
Endrin ketone	ND	ug/L	0.22	0.39	0.29	**181**	138	60 - 140	29	40	4
Heptachlor	ND	ug/L	0.22	0.21	0.22	98	105	1 - 192	5	74	
Heptachlor epoxide	ND	ug/L	0.22	0.21	0.21	98	100	26 - 155	0	101	
Methoxychlor	ND	ug/L	0.22	0.40	0.34	**186**	**162**	**60 - 140**	16	40	4

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	130	123	1 - 199	
Tetrachloro-m-xylene (SS)	%	60	69	11 - 134	

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2130
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description:	Semivolatile Organic Analysis	**QC Batch:**	SPR/2130
Analysis Method:	EPA 625.1	**QC Batch Method:**	EPA 625.1

Method Blank (290792)

Parameter	Result	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	0.23	
bis(2-Chloroethoxy) methane	ND	ug/L	5.0	0.14	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.33	
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.21	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.32	
2-Chloronaphthalene	ND	ug/L	5.0	0.28	
2-Chlorophenol	ND	ug/L	2.0	0.53	
4-Chlorophenyl phenyl ether	ND	ug/L	5.0	0.29	
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	1.4	
2,4-Dichlorophenol	ND	ug/L	1.0	0.45	
Diethylphthalate	ND	ug/L	2.0	0.50	
2,4-Dimethylphenol	ND	ug/L	2.0	0.11	
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	0.29	
2,4-Dinitrotoluene	ND	ug/L	5.0	0.28	
2,6-Dinitrotoluene	ND	ug/L	5.0	0.22	
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	0.23	
2-Methylphenol (o-Cresol)	ND	ug/L	5.0	0.32	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	5.0	0.24	
Naphthalene	ND	ug/L	0.20	0.020	
Nitrobenzene	ND	ug/L	1.0	0.50	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2130
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Result	Units	RL	MDL	Qual
2-Nitrophenol	ND	ug/L	5.0	0.38	
4-Nitrophenol	ND	ug/L	5.0	0.30	
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	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	0.25	
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.28	
2,4,6-Trichlorophenol	ND	ug/L	2.0	0.40	

Surrogates

Parameter	Units	Spike Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	134	23 - 170	
2-Fluorobiphenyl (SS)	%	65	15 - 130	
2-Fluorophenol (SS)	%	55	10 - 130	
Nitrobenzene-d5 (SS)	%	78	10 - 130	
Phenol-d6 (SS)	%	39	10 - 130	
Terphenyl-d14 (SS)	%	134	15 - 170	

Laboratory Control Sample (290793); Laboratory Control Sample Dup (290794)

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acenaphthene	ug/L	50	52	50	104	100	47 - 145	4	40	
Acenaphthylene	ug/L	50	49	46	98	92	33 - 145	6	40	
Anthracene	ug/L	50	55	54	110	108	27 - 133	2	40	
Benzidine	ug/L	50	17	8.9	34	18	1 - 130	**63**	**40**	5
Benzo(a)anthracene	ug/L	50	64	63	128	126	33 - 143	2	40	
Benzo(a)pyrene	ug/L	50	58	56	116	112	17 - 163	4	40	
Benzo(b)fluoranthene	ug/L	50	61	62	122	124	24 - 159	2	40	
Benzo(g,h,i)perylene	ug/L	50	46	44	92	88	1 - 219	4	40	
Benzo(k)fluoranthene	ug/L	50	69	62	138	124	11 - 162	11	40	
Benzyl butyl phthalate	ug/L	50	72	70	144	140	1 - 152	3	40	
4-Bromophenyl phenyl ether	ug/L	50	61	61	122	122	53 - 127	0	40	
bis(2-Chloroethoxy) methane	ug/L	50	54	48	108	96	33 - 184	12	40	
bis(2-Chloroethyl) ether	ug/L	50	43	44	86	88	12 - 158	2	40	
bis(2-Chloroisopropyl) ether	ug/L	50	43	40	86	80	36 - 166	7	40	
4-Chloro-3-methylphenol	ug/L	100	138	127	138	127	22 - 147	8	40	
2-Chloronaphthalene	ug/L	50	46	43	92	86	60 - 120	7	40	
2-Chlorophenol	ug/L	100	90	86	90	86	23 - 134	5	40	
4-Chlorophenyl phenyl ether	ug/L	50	61	58	122	116	25 - 158	5	40	
Chrysene	ug/L	50	64	63	128	126	17 - 168	2	40	
Dibenzo(a,h)anthracene	ug/L	50	61	58	122	116	1 - 227	5	40	
3,3'-Dichlorobenzidine	ug/L	50	75	71	150	142	1 - 262	5	40	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2130
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
2,4-Dichlorophenol	ug/L	100	124	109	124	109	39 - 135	13	40	
Diethylphthalate	ug/L	50	53	50	106	100	1 - 120	6	40	
2,4-Dimethylphenol	ug/L	100	117	103	117	103	32 - 120	13	40	
Dimethylphthalate	ug/L	50	61	57	**122**	114	1 - 120	7	40	3
Di-n-butylphthalate	ug/L	50	53	49	106	98	1 - 120	8	40	
2,4-Dinitrophenol	ug/L	100	99	106	99	106	1 - 191	7	40	
2,4-Dinitrotoluene	ug/L	50	78	74	**156**	**148**	39 - 139	5	40	3
2,6-Dinitrotoluene	ug/L	50	69	65	138	130	50 - 158	6	40	
Di-n-octylphthalate	ug/L	50	67	66	134	132	4 - 146	2	40	
1,2Diphenylhydrazine/Azobenzen	ug/L	50	51	49	102	98	30 - 130	4	40	
bis(2-Ethylhexyl) phthalate	ug/L	50	65	64	130	128	8 - 158	2	40	
Fluoranthene	ug/L	50	63	59	126	118	26 - 137	7	40	
Fluorene	ug/L	50	60	57	120	114	59 - 121	5	40	
Hexachlorobenzene	ug/L	50	61	62	122	124	1 - 152	2	40	
Hexachlorobutadiene	ug/L	50	37	34	74	68	24 - 120	8	40	
Hexachlorocyclo pentadiene	ug/L	50	34	31	68	62	1 - 130	9	40	
Hexachloroethane	ug/L	50	32	29	64	58	40 - 120	10	40	
Indeno(1,2,3-cd)pyrene	ug/L	50	57	55	114	110	1 - 171	4	40	
Isophorone	ug/L	50	52	46	104	92	21 - 196	12	40	
2-Methyl-4,6-dinitrophenol	ug/L	100	141	135	141	135	1 - 181	4	40	
2-Methylphenol (o-Cresol)	ug/L	100	102	95	102	95	35 - 130	7	40	
3 & 4-Methylphenol(m&p Cresol)	ug/L	100	97	92	97	92	25 - 130	5	40	
Naphthalene	ug/L	50	39	37	78	74	21 - 133	5	40	
Nitrobenzene	ug/L	50	45	41	90	82	35 - 180	9	40	
2-Nitrophenol	ug/L	100	132	119	132	119	29 - 182	10	40	
4-Nitrophenol	ug/L	100	80	76	80	76	1 - 132	5	40	
N-Nitrosodimethylamine	ug/L	50	34	31	68	62	25 - 130	9	40	
N-Nitroso-di-n-propylamine	ug/L	50	48	47	96	94	1 - 230	2	40	
N-Nitrosodiphenylamine	ug/L	50	68	66	**136**	**132**	30 - 130	3	40	3
Pentachlorophenol	ug/L	100	174	162	174	162	14 - 176	7	40	
Phenanthrene	ug/L	50	55	53	110	106	54 - 120	4	40	
Phenol	ug/L	100	48	45	48	45	5 - 120	6	40	
Pyrene	ug/L	50	61	58	**122**	116	52 - 120	5	40	3
1,2,4-Trichlorobenzene	ug/L	50	37	35	74	70	44 - 142	6	40	
2,4,5-Trichlorophenol	ug/L	100	146	130	**146**	130	45 - 130	12	40	3
2,4,6-Trichlorophenol	ug/L	100	153	138	**153**	138	37 - 144	10	40	3

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	**174**	163	23 - 170	6
2-Fluorobiphenyl (SS)	%	90	81	15 - 130	
2-Fluorophenol (SS)	%	63	60	10 - 130	
Nitrobenzene-d5 (SS)	%	97	87	10 - 130	
Phenol-d6 (SS)	%	49	46	10 - 130	
Terphenyl-d14 (SS)	%	134	126	15 - 170	

Matrix Spike (290797); Matrix Spike Dup (290798)

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2130
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	A080835002 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acenaphthene	ND	ug/L	49	25	27	51	56	47 - 145	8	48	
Acenaphthylene	ND	ug/L	49	23	25	47	52	33 - 145	8	74	
Anthracene	ND	ug/L	49	37	41	75	85	27 - 133	10	66	
Benzidine	ND	ug/L	49	0.86	1.0	2	2	1 - 130	15	40	
Benzo(a)anthracene	ND	ug/L	49	40	44	82	92	33 - 143	10	53	
Benzo(a)pyrene	ND	ug/L	49	36	38	73	79	17 - 163	5	72	
Benzo(b)fluoranthene	ND	ug/L	49	37	41	75	85	24 - 159	10	71	
Benzo(g,h,i)perylene	ND	ug/L	49	28	28	57	58	1 - 219	0	97	
Benzo(k)fluoranthene	ND	ug/L	49	46	49	94	102	11 - 162	6	63	
Benzyl butyl phthalate	ND	ug/L	49	46	51	94	106	1 - 152	10	60	
4-Bromophenyl phenyl ether	ND	ug/L	49	32	37	65	77	53 - 127	14	43	
bis(2-Chloroethoxy) methane	ND	ug/L	49	23	25	47	52	33 - 184	8	54	
bis(2-Chloroethyl) ether	ND	ug/L	49	20	23	41	48	12 - 158	14	108	
bis(2-Chloroisopropyl) ether	ND	ug/L	49	19	22	39	46	36 - 166	15	76	
4-Chloro-3-methylphenol	ND	ug/L	98	54	58	55	60	22 - 147	7	73	
2-Chloronaphthalene	ND	ug/L	49	23	25	**47**	**52**	**60 - 120**	8	24	2
2-Chlorophenol	ND	ug/L	98	34	37	35	38	23 - 134	8	61	
4-Chlorophenyl phenyl ether	ND	ug/L	49	30	34	61	71	25 - 158	13	61	
Chrysene	ND	ug/L	49	45	50	92	104	17 - 168	11	87	
Dibenzo(a,h)anthracene	ND	ug/L	49	37	38	75	79	1 - 227	3	126	
3,3'-Dichlorobenzidine	ND	ug/L	49	0.0	0.0	**0**	**0**	**1 - 262**	0	108	2
2,4-Dichlorophenol	ND	ug/L	98	49	54	50	56	39 - 135	10	50	
Diethylphthalate	ND	ug/L	49	33	37	67	77	1 - 120	11	100	
2,4-Dimethylphenol	ND	ug/L	98	41	44	42	46	32 - 120	7	58	
Dimethylphthalate	ND	ug/L	49	30	34	61	71	1 - 120	13	183	
Di-n-butylphthalate	ND	ug/L	49	38	44	78	92	1 - 120	15	47	
2,4-Dinitrophenol	ND	ug/L	98	76	81	78	84	1 - 191	6	132	
2,4-Dinitrotoluene	ND	ug/L	49	43	48	88	100	39 - 139	11	42	
2,6-Dinitrotoluene	ND	ug/L	49	32	35	65	73	50 - 158	9	48	
Di-n-octylphthalate	ND	ug/L	49	49	53	100	110	4 - 146	8	69	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	49	26	30	53	62	1 - 130	14	40	
bis(2-Ethylhexyl) phthalate	ND	ug/L	49	47	52	96	108	8 - 158	10	82	
Fluoranthene	ND	ug/L	49	44	47	90	98	26 - 137	7	66	
Fluorene	ND	ug/L	49	32	35	65	73	59 - 121	9	38	
Hexachlorobenzene	ND	ug/L	49	34	39	69	81	1 - 152	14	55	
Hexachlorobutadiene	ND	ug/L	49	19	22	39	46	24 - 120	15	62	
Hexachlorocyclo pentadiene	ND	ug/L	49	17	18	35	37	1 - 130	6	40	
Hexachloroethane	ND	ug/L	49	16	18	**33**	**37**	**40 - 120**	12	52	2
Indeno(1,2,3-cd)pyrene	ND	ug/L	49	34	35	69	73	1 - 171	3	99	
Isophorone	ND	ug/L	49	25	26	51	54	1 - 130	4	93	
2-Methyl-4,6-dinitrophenol	ND	ug/L	98	77	82	79	85	1 - 181	6	203	
2-Methylphenol (o-Cresol)	ND	ug/L	98	36	38	37	40	1 - 130	5	40	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	98	36	37	37	38	1 - 130	3	40	
Naphthalene	ND	ug/L	49	21	23	43	48	21 - 133	9	65	
Nitrobenzene	ND	ug/L	49	24	27	49	56	35 - 180	12	62	
2-Nitrophenol	ND	ug/L	98	46	51	47	53	29 - 182	10	55	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/2130
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	A080835002 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
4-Nitrophenol	ND	ug/L	98	43	46	44	48	1 - 132	7	131	
N-Nitrosodimethylamine	ND	ug/L	49	15	16	31	33	1 - 130	6	40	
N-Nitroso-di-n-propylamine	ND	ug/L	49	24	26	49	54	1 - 230	8	87	
N-Nitrosodiphenylamine	ND	ug/L	49	42	47	86	98	1 - 155	11	40	
Pentachlorophenol	ND	ug/L	98	98	107	100	111	14 - 176	9	86	
Phenanthrene	ND	ug/L	49	37	42	75	87	54 - 120	13	39	
Phenol	ND	ug/L	98	17	17	17	18	5 - 120	0	64	
Pyrene	ND	ug/L	49	43	46	88	96	52 - 120	7	49	
1,2,4-Trichlorobenzene	ND	ug/L	49	19	22	**39**	46	44 - 142	15	50	2
2,4,5-Trichlorophenol	ND	ug/L	98	61	68	62	71	1 - 130	11	40	
2,4,6-Trichlorophenol	ND	ug/L	98	57	61	58	63	37 - 144	7	58	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	90	103	1 - 200	
2-Fluorobiphenyl (SS)	%	49	53	1 - 130	
2-Fluorophenol (SS)	%	21	24	1 - 130	
Nitrobenzene-d5 (SS)	%	44	50	1 - 130	
Phenol-d6 (SS)	%	17	19	1 - 130	
Terphenyl-d14 (SS)	%	104	115	1 - 200	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Pesticides, Extended List **QC Batch:** SPR/2132
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Method Blank (291403)

Parameter	Result	Units	RL	MDL	Qual
2,4'-DDD	ND	ug/L	0.0050	0.0019	
2,4'-DDE	ND	ug/L	0.0050	0.0019	
2,4'-DDT	ND	ug/L	0.0050	0.0018	

Surrogates

Parameter	Units	Spike Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	90	29 - 155	
Tetrachloro-m-xylene (SS)	%	50	23 - 94	

Laboratory Control Sample (291404); Laboratory Control Sample Dup (291405)

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
2,4'-DDD	ug/L	0.20	0.19	0.20	95	100	70 - 130	5	40	
2,4'-DDE	ug/L	0.20	0.17	0.18	85	90	66 - 130	6	40	
2,4'-DDT	ug/L	0.20	0.19	0.22	95	110	69 - 130	15	40	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	87	103	29 - 155	
Tetrachloro-m-xylene (SS)	%	56	54	23 - 94	

Matrix Spike (291407); Matrix Spike Dup (291408)

Parameter	A080989001 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
2,4'-DDD	ND	ug/L	0.20	0.18	0.19	89	98	60 - 140	5	40	
2,4'-DDE	ND	ug/L	0.20	0.15	0.16	74	82	60 - 140	6	40	
2,4'-DDT	ND	ug/L	0.20	0.18	0.21	89	108	60 - 140	15	40	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Decachlorobiphenyl (SS)	%	91	105	1 - 199	
Tetrachloro-m-xylene (SS)	%	41	47	11 - 134	

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1859
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Method Blank (289940)

Parameter	Result	Units	RL	MDL	Qual
Acrolein	ND	ug/L	2.0	0.81	
Acrylonitrile	ND	ug/L	2.0	1.3	
Benzene	ND	ug/L	0.50	0.18	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1859
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Parameter	Result	Units	RL	MDL	Qual
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	
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	0.41	
1,2-Dichloroethane (EDC)	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	ND	ug/L	0.50	0.39	
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	0.23	
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	0.24	
1,1,1-Trichloroethane (TCA)	ND	ug/L	0.50	0.46	
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	Spike Rec %	Control Limits	Qual
1,2-Dichloroethane-d4 (SS)	%	104	66 - 137	
4-Bromofluorobenzene (SS)	%	102	80 - 120	
Dibromofluoromethane (SS)	%	103	71 - 133	
Toluene-d8 (SS)	%	96	61 - 136	

Laboratory Control Sample (289941); Laboratory Control Sample Dup (289942)

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1859
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Parameter	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acrolein	ug/L	20	16	17	80	85	60 - 140	6	60	
Acrylonitrile	ug/L	20	20	20	100	100	60 - 140	0	60	
Benzene	ug/L	5.0	5.0	4.8	100	96	65 - 135	4	61	
Bromodichloromethane	ug/L	5.0	5.0	4.7	100	94	65 - 135	6	56	
Bromoform	ug/L	5.0	4.6	4.4	92	88	70 - 130	4	42	
Bromomethane (Methyl Bromide)	ug/L	5.0	3.6	3.4	72	68	15 - 185	6	61	
Carbon tetrachloride	ug/L	5.0	4.8	4.5	96	90	70 - 130	6	41	
Chlorobenzene	ug/L	5.0	4.8	4.6	96	92	65 - 135	4	53	
Chloroethane (Ethyl Chloride)	ug/L	5.0	5.1	5.0	102	100	40 - 160	2	78	
2-Chloroethyl vinyl ether	ug/L	10	8.1	8.1	81	81	2.50 - 225	0	71	
Chloroform	ug/L	5.0	4.8	4.5	96	90	70 - 135	6	54	
Chloromethane(Methyl Chloride)	ug/L	5.0	5.4	5.1	108	102	5 - 205	6	60	
Dibromochloromethane	ug/L	5.0	5.1	4.9	102	98	70 - 135	4	50	
1,2-Dichlorobenzene	ug/L	5.0	4.9	4.7	98	94	65 - 135	4	57	
1,3-Dichlorobenzene	ug/L	5.0	4.9	4.7	98	94	70 - 130	4	43	
1,4-Dichlorobenzene	ug/L	5.0	4.9	4.7	98	94	65 - 135	4	57	
Dichlorodifluoromethane (F-12)	ug/L	5.0	5.6	5.2	112	104	44 - 166	7	30	
1,1-Dichloroethane	ug/L	5.0	5.1	4.6	102	92	70 - 130	10	40	
1,2-Dichloroethane (EDC)	ug/L	5.0	5.0	4.9	100	98	70 - 130	2	30	
1,1-Dichloroethene	ug/L	5.0	4.7	4.3	94	86	50 - 150	9	32	
cis-1,2-Dichloroethene	ug/L	5.0	4.5	4.3	90	86	72 - 134	5	30	
trans-1,2-Dichloroethene	ug/L	5.0	4.7	4.4	94	88	70 - 130	7	45	
1,2-Dichloropropane	ug/L	5.0	4.8	4.7	96	94	35 - 165	2	55	
cis-1,3-Dichloropropene	ug/L	5.0	4.5	4.4	90	88	25 - 175	2	58	
trans-1,3-Dichloropropene	ug/L	5.0	4.9	4.8	98	96	50 - 150	2	86	
Dichlorotrifluoroethane (F123)	ug/L	5.0	4.5	4.1	90	82	64 - 142	9	30	
Ethylbenzene	ug/L	5.0	4.9	4.7	98	94	60 - 140	4	30	
Methyl tert-butyl ether (MTBE)	ug/L	5.0	4.8	4.9	96	98	68 - 142	2	30	
Methylene chloride	ug/L	5.0	4.8	4.6	96	92	60 - 140	4	28	
1,1,2,2-Tetrachloroethane	ug/L	5.0	4.9	4.9	98	98	60 - 140	0	61	
Tetrachloroethene (PCE)	ug/L	5.0	4.7	4.4	94	88	70 - 130	7	39	
Toluene	ug/L	5.0	4.9	4.7	98	94	70 - 130	4	41	
1,1,2-Trichloroethane	ug/L	5.0	5.1	5.1	102	102	70 - 130	0	45	
1,1,1-Trichloroethane (TCA)	ug/L	5.0	4.6	4.4	92	88	70 - 130	4	36	
Trichloroethene (TCE)	ug/L	5.0	4.5	4.3	90	86	65 - 135	5	48	
Trichlorofluoromethane (F-11)	ug/L	5.0	5.0	4.5	100	90	50 - 150	11	84	
Trichlorotrifluoroethane F-113	ug/L	5.0	4.3	3.8	86	76	62 - 151	12	30	
Vinyl chloride	ug/L	5.0	5.4	4.9	108	98	5 - 195	10	66	
Xylenes, total	ug/L	15	14	14	93	93	58 - 138	0	30	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
1,2-Dichloroethane-d4 (SS)	%	101	101	66 - 137	
4-Bromofluorobenzene (SS)	%	97	98	80 - 120	
Dibromofluoromethane (SS)	%	96	95	71 - 133	
Toluene-d8 (SS)	%	101	102	61 - 136	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1859
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Matrix Spike (290102); Matrix Spike Dup (290103)

Parameter	A080800004 Result	Units	Spiked Amount	Spike Result	Dup Result	Spike Rec %	Dup Rec %	Control Limits	RPD	RPD Limit	Qual
Acrolein	ND	ug/L	400	17	11	**4**	**3**	**40 - 160**	43	50	2
Acrylonitrile	ND	ug/L	400	401	392	100	98	40 - 160	2	50	
Benzene	ND	ug/L	100	117	116	117	116	37 - 151	1	30	
Bromodichloromethane	J1.3	ug/L	100	106	109	105	108	35 - 155	3	30	
Bromoform	ND	ug/L	100	104	106	104	106	45 - 169	2	30	
Bromomethane (Methyl Bromide)	ND	ug/L	100	96	98	96	98	2.50 - 242	2	45	
Carbon tetrachloride	ND	ug/L	100	109	110	109	110	70 - 140	1	30	
Chlorobenzene	ND	ug/L	100	98	99	98	99	37 - 160	1	30	
Chloroethane (Ethyl Chloride)	ND	ug/L	100	109	109	109	109	14 - 230	0	40	
2-Chloroethyl vinyl ether	ND	ug/L	200	231	249	116	125	2.50 - 305	8	40	
Chloroform	7.2	ug/L	100	106	107	99	100	51 - 138	1	30	
Chloromethane(Methyl Chloride)	ND	ug/L	100	111	112	111	112	5 - 273	1	60	
Dibromochloromethane	ND	ug/L	100	116	118	116	118	53 - 149	2	30	
1,2-Dichlorobenzene	ND	ug/L	100	110	109	110	109	18 - 190	1	30	
1,3-Dichlorobenzene	ND	ug/L	100	110	110	110	110	59 - 156	0	30	
1,4-Dichlorobenzene	ND	ug/L	100	106	106	106	106	18 - 190	0	30	
Dichlorodifluoromethane (F-12)	ND	ug/L	100	120	129	120	129	55 - 152	7	45	
1,1-Dichloroethane	ND	ug/L	100	102	101	102	101	59 - 155	1	30	
1,2-Dichloroethane (EDC)	ND	ug/L	100	106	107	106	107	49 - 155	1	30	
1,1-Dichloroethene	ND	ug/L	100	101	101	101	101	2.50 - 234	0	30	
cis-1,2-Dichloroethene	ND	ug/L	100	98	101	98	101	78 - 124	3	30	
trans-1,2-Dichloroethene	ND	ug/L	100	98	99	98	99	54 - 156	1	30	
1,2-Dichloropropane	ND	ug/L	100	109	112	109	112	2.50 - 210	3	30	
cis-1,3-Dichloropropene	ND	ug/L	100	110	114	110	114	2.50 - 227	4	30	
trans-1,3-Dichloropropene	ND	ug/L	100	115	117	115	117	17 - 183	2	30	
Dichlorotrifluoroethane (F123)	ND	ug/L	100	106	105	106	105	77 - 128	1	30	
Ethylbenzene	ND	ug/L	100	109	108	109	108	37 - 162	1	30	
Methyl tert-butyl ether (MTBE)	ND	ug/L	100	102	107	102	107	67 - 137	5	30	
Methylene chloride	ND	ug/L	100	94	94	94	94	2.50 - 221	0	30	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	118	109	118	109	46 - 157	8	30	
Tetrachloroethene (PCE)	ND	ug/L	100	110	109	110	109	64 - 148	1	30	
Toluene	ND	ug/L	100	112	112	112	112	47 - 150	0	30	
1,1,2-Trichloroethane	ND	ug/L	100	114	116	114	116	52 - 150	2	30	
1,1,1-Trichloroethane (TCA)	ND	ug/L	100	109	108	109	108	52 - 162	1	30	
Trichloroethene (TCE)	ND	ug/L	100	103	106	103	106	70 - 157	3	30	
Trichlorofluoromethane (F-11)	ND	ug/L	100	107	107	107	107	17 - 181	0	40	
Trichlorotrifluoroethane F-113	ND	ug/L	100	103	101	103	101	57 - 159	2	30	
Vinyl chloride	ND	ug/L	100	112	112	112	112	2.50 - 251	0	40	
Xylenes, total	ND	ug/L	300	328	327	109	109	49 - 146	0	30	

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
1,2-Dichloroethane-d4 (SS)	%	100	94	57 - 148	
4-Bromofluorobenzene (SS)	%	97	98	80 - 120	

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QUALITY CONTROL DATA

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Analysis Description: Volatile Organic Analysis **QC Batch:** VMS/1859
Analysis Method: EPA 624.1 **QC Batch Method:** EPA 624.1

Surrogates

Parameter	Units	Spike Rec %	Dup Rec %	Control Limits	Qual
Dibromofluoromethane (SS)	%	89	91	63 - 142	
Toluene-d8 (SS)	%	103	101	46 - 145	

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QUALITY CONTROL DATA QUALIFIERS

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

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

2	Low Matrix Spike recovery(ies) due to possible matrix interferences in the QC sample. QC batch accepted based on LCS and RPD results.
3	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.
4	High Matrix Spike recovery(ies) due to possible matrix interferences in the QC sample. QC batch accepted based on LCS and RPD results.
5	LCSD for RPD purposes only. LCS/LCSD RPD exceeds criteria. Sample results accepted based on LCS recovery. Meets all pertinenent method criteria.
6	Caltest allows one surrogate outside of laboratory control limits per SOP.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: A080835
Project ID: ENCINA EFFLUENT SEMI ANN 2025

Lab ID	Sample ID	Prep Batch	Prep Method
MMS/2341 - EPA 200.8			
A080835002	ENCINA EFFLUENT	MPR/3116	EPA 200.8
SMS/1939 - EPA 625.1			
A080835002	ENCINA EFFLUENT	SPR/2128	EPA 625.1
SMS/1942 - EPA 625.1			
A080835002	ENCINA EFFLUENT	SPR/2130	EPA 625.1
SMS/1944 - EPA 625.1			
A080835002	ENCINA EFFLUENT	SPR/2132	EPA 625.1
VMS/1859 - EPA 624.1			
A080835001	ENCINA EFFLUENT	VMS/1859	EPA 624.1

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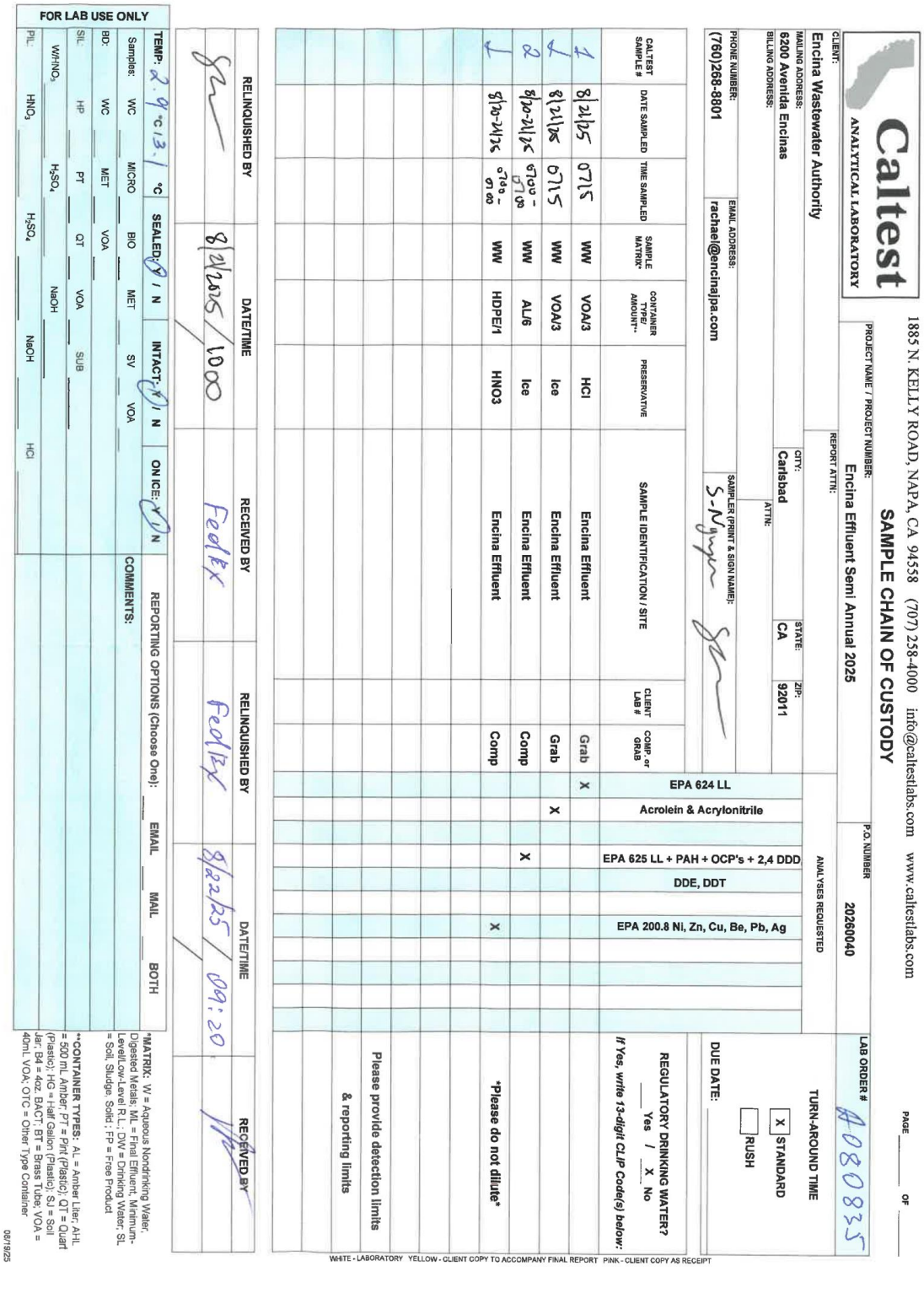

Caltest ANALYTICAL LABORATORY

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SAMPLE CHAIN OF CUSTODY

PAGE ____ OF ____

LAB ORDER # 20260835

CLIENT: Encina Wastewater Authority

PROJECT NAME / PROJECT NUMBER: Encina Effluent Semi Annual 2025

P.O. NUMBER: 20260040

REPORT ATTN:

MAILING ADDRESS: 6200 Avenida Encinas

BILLING ADDRESS:

CITY: Carlsbad

ATTN:

STATE: CA

ZIP: 92011

PHONE NUMBER: (760)268-8801

EMAIL ADDRESS: rachael@encinajpa.com

SAMPLER (PRINT & SIGN NAME): S. Nguyen

ANALYSES REQUESTED

TURN-AROUND TIME: [X] STANDARD [ ] RUSH

DUE DATE: ____

CALTEST SAMPLE #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	EPA 624 LL	Acrolein & Acrylonitrile		EPA 625 LL + PAH + OCP's + 2,4 DDD	DDE, DDT		EPA 200.8 Ni, Zn, Cu, Be, Pb, Ag					
1	8/21/25	0715	WW	VOA/3	HCl	Encina Effluent		Grab	X											
2	8/21/25	0715	WW	VOA/3	Ice	Encina Effluent		Grab		X										
3	8/20-21/25	0715 - 0715	WW	AL/6	Ice	Encina Effluent		Comp				X								
4	8/20-21/25	0715 - 0715	WW	HDPE/1	HNO3	Encina Effluent		Comp							X					

REGULATORY DRINKING WATER? ___ Yes / _X_ No

If Yes, write 13-digit CLIP Code(s) below:

Please do not dilute

Please provide detection limits & reporting limits

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	8/21/25 1000	FedEx	
		FedEx	8/22/25 0920

FOR LAB USE ONLY

TEMP: 2.9 °C 13.1 °C | SEALED: Y / N | INTACT: Y / N | ON ICE: Y / N

Samples: WC MICRO BIO MET SV VOA

BD: WC MET VOA

SIL HP PT QT VOA SUB

WP: HNO_3 H_2SO_4 NaOH

PIL HNO_3 H_2SO_4 NaOH HCl

REPORTING OPTIONS (Choose One): ___ EMAIL ___ MAIL ___ BOTH

COMMENTS:

RECEIVED BY

*MATRIX: W = Aqueous Nondrinking Water, Digested Metals; ML = Final Effluent, Minimum-Level/Low-Level R.L.; DW = Drinking Water; SL = Soil, Sludge, Solid.; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 mL Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC = Other Type Container

08/19/25

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/3/2025 9:28:00 AM

JOB DESCRIPTION

Encina Effluent Semi Annual 2025

JOB NUMBER

570-242851-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

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Authorization

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

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

Qualifiers

General Chemistry

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.
☼	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

Job ID: 570-242851-1 — Eurofins Calscience

Job Narrative
570-242851-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/14/2025 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°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.

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

Client Sample ID: Encina Effluent
Lab Sample ID: 570-242851-1

No Detections.

Client Sample ID: Encina Effluent
Lab Sample ID: 570-242851-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Encina Effluent
Lab Sample ID: 570-242851-1
Date Collected: 08/14/25 07:00
Matrix: Water
Date Received: 08/14/25 16:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/18/25 15:09	08/19/25 10:02	1

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

General Chemistry

Client Sample ID: Encina Effluent
Date Collected: 08/14/25 07:00
Date Received: 08/14/25 16:55

Lab Sample ID: 570-242851-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.7	ug/L			08/20/25 15:00	1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-613282/1-A
Matrix: Water
Analysis Batch: 613768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/18/25 15:09	08/19/25 09:23	1

Lab Sample ID: LCS 570-613282/2-A
Matrix: Water
Analysis Batch: 613768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613282

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00800	0.00905		mg/L		113	85 - 115		

Lab Sample ID: LCSD 570-613282/3-A
Matrix: Water
Analysis Batch: 613768

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 613282

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00800	0.00918		mg/L		115	85 - 115	1	10

Lab Sample ID: 570-243012-O-2-B MS
Matrix: Water
Analysis Batch: 613768

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 613282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.00040		0.00800	0.00930		mg/L		111	85 - 115		

Lab Sample ID: 570-243012-O-2-C MSD
Matrix: Water
Analysis Batch: 613768

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 613282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00040		0.00800	0.00961		mg/L		115	85 - 115	3	10

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

Lab Sample ID: MB 570-614424/38
Matrix: Water
Analysis Batch: 614424

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	2.7	ug/L			08/20/25 14:44	1

Lab Sample ID: LCS 570-614424/39
Matrix: Water
Analysis Batch: 614424

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			100	95.7		ug/L		96	90 - 110		

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

Lab Sample ID: LCSD 570-614424/40
Matrix: Water
Analysis Batch: 614424

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			100	93.7		ug/L		94	90 - 110	2	20

Lab Sample ID: MRL 570-614424/14
Matrix: Water
Analysis Batch: 614424

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	3.69	J	ug/L		74	50 - 150		

Lab Sample ID: 570-242870-F-1 MS
Matrix: Water
Analysis Batch: 614424

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		100	91.1		ug/L		91	70 - 130		

Lab Sample ID: 570-242870-F-1 MSD
Matrix: Water
Analysis Batch: 614424

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		100	91.9		ug/L		92	70 - 130	1	30

QC Association Summary

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

Metals

Prep Batch: 613282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-242851-1	Encina Effluent	Total/NA	Water	245.1	
MB 570-613282/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-613282/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-613282/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-243012-O-2-B MS	Matrix Spike	Dissolved	Water	245.1	
570-243012-O-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	

Analysis Batch: 613768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-242851-1	Encina Effluent	Total/NA	Water	245.1	613282
MB 570-613282/1-A	Method Blank	Total/NA	Water	245.1	613282
LCS 570-613282/2-A	Lab Control Sample	Total/NA	Water	245.1	613282
LCSD 570-613282/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	613282
570-243012-O-2-B MS	Matrix Spike	Dissolved	Water	245.1	613282
570-243012-O-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	613282

General Chemistry

Analysis Batch: 614424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-242851-2	Encina Effluent	Total/NA	Water	Kelada 01	
MB 570-614424/38	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-614424/39	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-614424/40	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-614424/14	Lab Control Sample	Total/NA	Water	Kelada 01	
570-242870-F-1 MS	Matrix Spike	Total/NA	Water	Kelada 01	
570-242870-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

Client Sample ID: Encina Effluent
Lab Sample ID: 570-242851-1
Date Collected: 08/14/25 07:00
Matrix: Water
Date Received: 08/14/25 16:55

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	613282	08/18/25 15:09	JP8N	EET CAL 4
Total/NA	Analysis	245.1		1			613768	08/19/25 10:02	JP8N	EET CAL 4
	Instrument ID: HG9									

Client Sample ID: Encina Effluent
Lab Sample ID: 570-242851-2
Date Collected: 08/14/25 07:00
Matrix: Water
Date Received: 08/14/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Kelada 01		1	10 mL	10 mL	614424	08/20/25 15:00	UAPD	EET CAL 4
	Instrument ID: ACA5									

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
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

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	02-02-26

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-242851-1
Project/Site: Encina Effluent Semi Annual 2025

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: Encina Effluent Semi Annual 2025

Job ID: 570-242851-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-242851-1	Encina Effluent	Water	08/14/25 07:00	08/14/25 16:55	California
570-242851-2	Encina Effluent	Water	08/14/25 07:00	08/14/25 16:55	California

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins Environment Testing America

242851

Client Information	Sampler: SN	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority				Job #:
Address: 6200 Avenida Encinas	Due Date Requested:			
City: Carlsbad	TAT Requested (days): 10 Working Days			
State, Zip: California, 92011				
Phone: 760-268-8801	PO #: 2026 0036			
Email: rachael@encinajpa.com	WO #:			
Project Name: Encina Effluent Semi Annual 2025	Project #:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	Total Number of containers	Special Instructions/Note:
Encina Effluent	8/13-14/25	0700-0700	C	WW			X		1	D
Encina Effluent	8/13-14/25	0700-0700	C	WW				X	1	B

570-242851 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/14/25 1100	Encina		8-14-25 1100	EC
2		8-14-25 1655	EC		8-14-25 1655	EC
3						

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

Cooler Temperature(s) °C and Other Remarks: SC 11 2-3/2.6

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-242851-1

Login Number: 242851

List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/13/2025 11:18:29 AM Revision 1

JOB DESCRIPTION

Encina Inf. Priority Poll

JOB NUMBER

570-221254-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

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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5/13/2025 11:18:29 AM
Revision 1

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

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

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.
☼	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

Job Narrative
570-221254-1

REVISION

The report being provided is a revision of the original report sent on 3/13/2025. The report (revision 1) is being revised to add Cadmium result per client's request on 05/08/25.

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 3/6/2025 4:50 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 3.5°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The total number of containers is missing on the following sample: Encina Influent Priority Poll (570-221254-1)

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

Detection Summary

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

Client Sample ID: Encina Influent Priority Poll — Lab Sample ID: 570-221254-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.092		0.050	0.0016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0022	J	0.050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.18	J	0.25	0.0046	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Encina Influent Priority Poll
Date Collected: 01/15/25 09:02
Date Received: 03/06/25 16:50

Lab Sample ID: 570-221254-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.10	0.015	mg/L		03/12/25 04:17	03/12/25 19:24	1
Arsenic	ND		0.10	0.0097	mg/L		03/12/25 04:17	03/12/25 19:24	1
Beryllium	ND		0.010	0.00066	mg/L		03/12/25 04:17	03/12/25 19:24	1
Cadmium	ND		0.010	0.00045	mg/L		03/12/25 04:17	03/12/25 19:24	1
Chromium	ND		0.050	0.0030	mg/L		03/12/25 04:17	03/12/25 19:24	1
Copper	**0.092**		0.050	0.0016	mg/L		03/12/25 04:17	03/12/25 19:24	1
Lead	ND		0.050	0.0060	mg/L		03/12/25 04:17	03/12/25 19:24	1
Molybdenum	ND		0.050	0.0059	mg/L		03/12/25 04:17	03/12/25 19:24	1
Nickel	**0.0022**	**J**	0.050	0.0015	mg/L		03/12/25 04:17	03/12/25 19:24	1
Selenium	ND		0.10	0.012	mg/L		03/12/25 04:17	03/12/25 19:24	1
Silver	ND		0.010	0.0034	mg/L		03/12/25 04:17	03/12/25 19:24	1
Thallium	ND		0.050	0.0086	mg/L		03/12/25 04:17	03/12/25 19:24	1
Zinc	**0.18**	**J**	0.25	0.0046	mg/L		03/12/25 04:17	03/12/25 19:24	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-543853/1-A
Matrix: Water
Analysis Batch: 544292

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 543853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.10	0.015	mg/L		03/12/25 04:17	03/12/25 18:14	1
Arsenic	ND		0.10	0.0097	mg/L		03/12/25 04:17	03/12/25 18:14	1
Beryllium	ND		0.010	0.00066	mg/L		03/12/25 04:17	03/12/25 18:14	1
Cadmium	ND		0.010	0.00045	mg/L		03/12/25 04:17	03/12/25 18:14	1
Chromium	ND		0.050	0.0030	mg/L		03/12/25 04:17	03/12/25 18:14	1
Copper	ND		0.050	0.0016	mg/L		03/12/25 04:17	03/12/25 18:14	1
Lead	ND		0.050	0.0060	mg/L		03/12/25 04:17	03/12/25 18:14	1
Molybdenum	ND		0.050	0.0059	mg/L		03/12/25 04:17	03/12/25 18:14	1
Nickel	ND		0.050	0.0015	mg/L		03/12/25 04:17	03/12/25 18:14	1
Selenium	ND		0.10	0.012	mg/L		03/12/25 04:17	03/12/25 18:14	1
Silver	ND		0.010	0.0034	mg/L		03/12/25 04:17	03/12/25 18:14	1
Thallium	ND		0.050	0.0086	mg/L		03/12/25 04:17	03/12/25 18:14	1
Zinc	ND		0.25	0.0046	mg/L		03/12/25 04:17	03/12/25 18:14	1

Lab Sample ID: LCS 570-543853/2-A
Matrix: Water
Analysis Batch: 544292

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 543853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	85 - 115
Arsenic	0.500	0.535		mg/L		107	85 - 115
Beryllium	0.500	0.529		mg/L		106	85 - 115
Cadmium	0.500	0.534		mg/L		107	85 - 115
Chromium	0.500	0.541		mg/L		108	85 - 115
Copper	0.500	0.531		mg/L		106	85 - 115
Lead	0.500	0.536		mg/L		107	85 - 115
Molybdenum	0.500	0.503		mg/L		101	85 - 115
Nickel	0.500	0.540		mg/L		108	85 - 115
Selenium	0.500	0.519		mg/L		104	85 - 115
Silver	0.250	0.263		mg/L		105	85 - 115
Thallium	0.500	0.527		mg/L		105	85 - 115
Zinc	0.500	0.535		mg/L		107	85 - 115

Lab Sample ID: LCSD 570-543853/3-A
Matrix: Water
Analysis Batch: 544292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 543853

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.510		mg/L		102	85 - 115	0	20
Arsenic	0.500	0.530		mg/L		106	85 - 115	1	20
Beryllium	0.500	0.523		mg/L		105	85 - 115	1	20
Cadmium	0.500	0.528		mg/L		106	85 - 115	1	20
Chromium	0.500	0.535		mg/L		107	85 - 115	1	20
Copper	0.500	0.541		mg/L		108	85 - 115	2	20
Lead	0.500	0.530		mg/L		106	85 - 115	1	20
Molybdenum	0.500	0.498		mg/L		100	85 - 115	1	20
Nickel	0.500	0.534		mg/L		107	85 - 115	1	20
Selenium	0.500	0.519		mg/L		104	85 - 115	0	20
Silver	0.250	0.260		mg/L		104	85 - 115	1	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-543853/3-A
Matrix: Water
Analysis Batch: 544292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 543853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium			0.500	0.516		mg/L		103	85 - 115	2	20
Zinc			0.500	0.529		mg/L		106	85 - 115	1	20

Lab Sample ID: 570-221606-P-1-B MS
Matrix: Water
Analysis Batch: 544292

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 543853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.500	0.514		mg/L		103	80 - 120
Arsenic	0.022	J	0.500	0.555		mg/L		106	80 - 120
Beryllium	ND		0.500	0.497		mg/L		99	80 - 120
Cadmium	0.019		0.500	0.489		mg/L		94	80 - 120
Chromium	0.041	J	0.500	0.543		mg/L		100	80 - 120
Copper	0.036	J	0.500	0.572		mg/L		107	80 - 120
Lead	0.047	J	0.500	0.516		mg/L		94	80 - 120
Molybdenum	0.041	J	0.500	0.517		mg/L		95	80 - 120
Nickel	0.26		0.500	0.718		mg/L		91	80 - 120
Selenium	0.54		0.500	1.03		mg/L		98	80 - 120
Silver	0.0063	J	0.250	0.276		mg/L		108	80 - 120
Thallium	ND		0.500	0.452		mg/L		90	80 - 120
Zinc	0.42		0.500	0.869		mg/L		90	80 - 120

Lab Sample ID: 570-221606-P-1-C MSD
Matrix: Water
Analysis Batch: 544292

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 543853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.500	0.532		mg/L		106	80 - 120	4	20
Arsenic	0.022	J	0.500	0.575		mg/L		111	80 - 120	4	20
Beryllium	ND		0.500	0.513		mg/L		103	80 - 120	3	20
Cadmium	0.019		0.500	0.505		mg/L		97	80 - 120	3	20
Chromium	0.041	J	0.500	0.560		mg/L		104	80 - 120	3	20
Copper	0.036	J	0.500	0.589		mg/L		111	80 - 120	3	20
Lead	0.047	J	0.500	0.537		mg/L		98	80 - 120	4	20
Molybdenum	0.041	J	0.500	0.544		mg/L		101	80 - 120	5	20
Nickel	0.26		0.500	0.743		mg/L		96	80 - 120	3	20
Selenium	0.54		0.500	1.06		mg/L		103	80 - 120	2	20
Silver	0.0063	J	0.250	0.284		mg/L		111	80 - 120	3	20
Thallium	ND		0.500	0.459		mg/L		92	80 - 120	2	20
Zinc	0.42		0.500	0.893		mg/L		95	80 - 120	3	20

QC Association Summary

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

Metals

Prep Batch: 543853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221254-1	Encina Influent Priority Poll	Total Recoverable	Water	200.7	
MB 570-543853/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-543853/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-543853/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-221606-P-1-B MS	Matrix Spike	Total Recoverable	Water	200.7	
570-221606-P-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Analysis Batch: 544292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-543853/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	543853
LCS 570-543853/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	543853
LCSD 570-543853/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	543853
570-221606-P-1-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	543853
570-221606-P-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	543853

Analysis Batch: 544326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221254-1	Encina Influent Priority Poll	Total Recoverable	Water	200.7 Rev 4.4	543853

Lab Chronicle

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

Client Sample ID: Encina Influent Priority Poll

Date Collected: 01/15/25 09:02
Date Received: 03/06/25 16:50

Lab Sample ID: 570-221254-1

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	543853	03/12/25 04:17	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			544326	03/12/25 19:24	P1R	EET CAL 4
	Instrument ID: ICP11									

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: Encina Inf. Priority Poll

Job ID: 570-221254-1

Laboratory: Eurofins Calscience

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

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

Method Summary

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
200.7	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

Sample Summary

Client: Encina Wastewater Authority
Project/Site: Encina Inf. Priority Poll

Job ID: 570-221254-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-221254-1	Encina Influent Priority Poll	Water	01/15/25 09:02	03/06/25 16:50

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Environment Testing America

Loc: 570
221254

Client Information	Sampler: SN	Lab PM: Janice Hsu	Carrier Tracking No(s):
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com	COC No: 221254
Company: Encina Wastewater Authority			Page: Page 1 of 1
			Job #:
Address: 6200 Avenida Encinas	Due Date Requested:		
City: Carlsbad	TAT Requested (days): 14 Days		
State, Zip: California, 92011			
Phone: 760-268-8801	PO #: 20250030		
Email: rachael@encinajpa.com	WO #:		
Project Name:	Project #: Encina Inf. Priority Poll.		

Analysis Requested: Field Filtered Sample (Yes or No); Perform MS/MSD (Yes or No); 200.7 TAT, Tl, Ag, Se, Ni, Mo, Pb, Cu, Cr, Be, As, Sb; Total Number of containers

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample	Perform MS/MSD	200.7	Total Number of containers	Special Instructions/Note:
Encina Influent priority poll.	4/4-5/25	0902	Comp	WW			X		

570-221254 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ________ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/6/25 1250	EWA	[signature]	3-6-25 1258	LSC
[signature]	3-6-25 1650	[illegible]	[signature]	3-6-25 1650	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: SC14 3.5 / 3.5

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-221254-1

Login Number: 221254
List Number: 1
Creator: Le, Sunny

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/13/2025 11:01:28 AM Revision 1

JOB DESCRIPTION

2025 Annual Encina Influent Priority PollutantScan

JOB NUMBER

570-214355-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

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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Revision 1

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

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScan

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

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.

General Chemistry

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

Job Narrative
570-214355-1

REVISION

The report being provided is a revision of the original report sent on 1/29/2025. The report (revision 1) is being revised to report full list for method 624 per client's request on 05/08/25.

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 1/16/2025 6:15 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 3.0°C.

GC/MS VOA
Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-524040. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

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 570-524033. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Method 625.1

Method 625.1: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 570-524033 and analytical batch 570-524310 recovered outside control limits for the following analyte(s): Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 625.1: The following analyte(s) recovered outside control limits for the LCSD associated with preparation batch 570-524033 and analytical batch 570-524310: Hexachloroethane and N-Nitrosodimethylamine. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-524033 and analytical batch 570-524310 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, Benzidine and N-Nitrosodimethylamine. Affected analytes were not detected in samples.

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

PCBs
Method 608.3_PCB: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-523809. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 608.3 PEST/PCB

Method 608.3_PCB: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: Encina Influent (570-214355-1). The reagent lot number used was: 5356771. Method 608.3_Pest/PCB

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

Pesticides
Method 608.3_Pest: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-523809. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 608.3 PEST/PCB

Method 608.3_Pest: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: Encina Influent (570-214355-1). The reagent lot number used was: 5356771. Method 608.3_Pest/PCB

Method 608.3_Pest: The continuing calibration verification (CCV) associated with batch 570-527015 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: Encina Influent (570-214355-1).

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

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 the following sample associated with analytical batch 570-525592 were outside control limits: (570-214098-I-1 MS) and (570-214098-I-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Client Sample ID: Encina Influent
Lab Sample ID: 570-214355-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	1.9	J	9.6	1.1	ug/L	1		625.1	Total/NA
Di-n-butyl phthalate	1.3	J	9.6	1.3	ug/L	1		625.1	Total/NA
Phenol	7.5	J	9.6	0.41	ug/L	1		625.1	Total/NA

Client Sample ID: Encina Influent
Lab Sample ID: 570-214355-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	15		1.0	0.26	ug/L	1		624.1	Total/NA
Toluene	2.3		1.0	0.19	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Encina Influent
Date Collected: 01/15/25 11:00
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			01/17/25 18:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			01/17/25 18:47	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			01/17/25 18:47	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			01/17/25 18:47	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			01/17/25 18:47	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			01/17/25 18:47	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			01/17/25 18:47	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			01/17/25 18:47	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			01/17/25 18:47	1
1,3-Dichloropropene, Total	ND		0.50	0.33	ug/L			01/17/25 18:47	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			01/17/25 18:47	1
2-Chloroethyl vinyl ether	ND		2.0	0.94	ug/L			01/17/25 18:47	1
Acrolein	ND		5.0	3.4	ug/L			01/17/25 18:47	1
Acrylonitrile	ND		2.0	1.4	ug/L			01/17/25 18:47	1
Benzene	ND		0.50	0.30	ug/L			01/17/25 18:47	1
Bromodichloromethane	ND		1.0	0.24	ug/L			01/17/25 18:47	1
Bromoform	ND		1.0	0.46	ug/L			01/17/25 18:47	1
Bromomethane	ND		5.0	3.7	ug/L			01/17/25 18:47	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			01/17/25 18:47	1
Chlorobenzene	ND		1.0	0.20	ug/L			01/17/25 18:47	1
Chloroethane	ND		1.0	0.54	ug/L			01/17/25 18:47	1
Chloroform	**15**		1.0	0.26	ug/L			01/17/25 18:47	1
Chloromethane	ND		1.0	0.65	ug/L			01/17/25 18:47	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			01/17/25 18:47	1
Dibromochloromethane	ND		1.0	0.25	ug/L			01/17/25 18:47	1
Ethylbenzene	ND		1.0	0.23	ug/L			01/17/25 18:47	1
Methylene Chloride	ND		2.0	0.83	ug/L			01/17/25 18:47	1
Tetrachloroethene	ND		1.0	0.39	ug/L			01/17/25 18:47	1
Toluene	**2.3**		1.0	0.19	ug/L			01/17/25 18:47	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			01/17/25 18:47	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			01/17/25 18:47	1
Trichloroethene	ND		1.0	0.41	ug/L			01/17/25 18:47	1
Vinyl chloride	ND		0.50	0.36	ug/L			01/17/25 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*60 - 140*		*01/17/25 18:47*	*1*
Dibromofluoromethane	*110*		*60 - 140*		*01/17/25 18:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*01/17/25 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*01/17/25 18:47*	*1*

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

Client Sample ID: Encina Influent
Date Collected: 01/15/25 09:02
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.6	0.74	ug/L		01/17/25 13:25	01/19/25 17:58	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		9.6	0.71	ug/L		01/17/25 13:25	01/19/25 17:58	1
2,4,6-Trichlorophenol	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
2,4-Dichlorophenol	ND		9.6	1.3	ug/L		01/17/25 13:25	01/19/25 17:58	1
2,4-Dimethylphenol	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
2,4-Dinitrophenol	ND		48	13	ug/L		01/17/25 13:25	01/19/25 17:58	1
2,4-Dinitrotoluene	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
2,6-Dinitrotoluene	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
2-Chloronaphthalene	ND		9.6	0.67	ug/L		01/17/25 13:25	01/19/25 17:58	1
2-Chlorophenol	ND		9.6	0.91	ug/L		01/17/25 13:25	01/19/25 17:58	1
2-Nitrophenol	ND		9.6	2.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
3,3'-Dichlorobenzidine	ND	*1	9.6	2.0	ug/L		01/17/25 13:25	01/19/25 17:58	1
4,6-Dinitro-2-methylphenol	ND		48	11	ug/L		01/17/25 13:25	01/19/25 17:58	1
4-Bromophenyl phenyl ether	ND		9.6	1.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
4-Chloro-3-methylphenol	ND		9.6	1.3	ug/L		01/17/25 13:25	01/19/25 17:58	1
4-Chlorophenyl phenyl ether	ND		9.6	0.99	ug/L		01/17/25 13:25	01/19/25 17:58	1
4-Nitrophenol	ND		9.6	3.5	ug/L		01/17/25 13:25	01/19/25 17:58	1
Acenaphthene	ND		9.6	0.87	ug/L		01/17/25 13:25	01/19/25 17:58	1
Acenaphthylene	ND		9.6	0.84	ug/L		01/17/25 13:25	01/19/25 17:58	1
Anthracene	ND		9.6	0.95	ug/L		01/17/25 13:25	01/19/25 17:58	1
Benzidine	ND	*- *1	48	11	ug/L		01/17/25 13:25	01/19/25 17:58	1
Benzo[a]anthracene	ND		9.6	1.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
Benzo[a]pyrene	ND		9.6	1.8	ug/L		01/17/25 13:25	01/19/25 17:58	1
Benzo[b]fluoranthene	ND		9.6	1.6	ug/L		01/17/25 13:25	01/19/25 17:58	1
Benzo[g,h,i]perylene	ND		9.6	1.8	ug/L		01/17/25 13:25	01/19/25 17:58	1
Benzo[k]fluoranthene	ND		9.6	1.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
Bis (2-chloroethoxy) methane	ND		9.6	0.97	ug/L		01/17/25 13:25	01/19/25 17:58	1
Bis(2-chloroethyl)ether	ND		24	7.4	ug/L		01/17/25 13:25	01/19/25 17:58	1
bis (2-chloroisopropyl) ether	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
Bis(2-ethylhexyl) phthalate	ND		9.6	4.7	ug/L		01/17/25 13:25	01/19/25 17:58	1
Butyl benzyl phthalate	ND		9.6	4.0	ug/L		01/17/25 13:25	01/19/25 17:58	1
Chrysene	ND		9.6	1.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
Dibenz(a,h)anthracene	ND		9.6	1.8	ug/L		01/17/25 13:25	01/19/25 17:58	1
Diethyl phthalate	**1.9**	**J**	9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
Dimethyl phthalate	ND		9.6	0.90	ug/L		01/17/25 13:25	01/19/25 17:58	1
Di-n-butyl phthalate	**1.3**	**J**	9.6	1.3	ug/L		01/17/25 13:25	01/19/25 17:58	1
Di-n-octyl phthalate	ND		9.6	4.4	ug/L		01/17/25 13:25	01/19/25 17:58	1
Fluoranthene	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
Fluorene	ND		9.6	0.90	ug/L		01/17/25 13:25	01/19/25 17:58	1
Hexachloro-1,3-butadiene	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
Hexachlorobenzene	ND		9.6	0.86	ug/L		01/17/25 13:25	01/19/25 17:58	1
Hexachlorocyclopentadiene	ND		24	2.9	ug/L		01/17/25 13:25	01/19/25 17:58	1
Hexachloroethane	ND	*-	9.6	0.85	ug/L		01/17/25 13:25	01/19/25 17:58	1
Indeno[1,2,3-cd]pyrene	ND		9.6	3.0	ug/L		01/17/25 13:25	01/19/25 17:58	1
Isophorone	ND		9.6	1.4	ug/L		01/17/25 13:25	01/19/25 17:58	1
Naphthalene	ND		9.6	3.5	ug/L		01/17/25 13:25	01/19/25 17:58	1
Nitrobenzene	ND		24	7.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
N-Nitrosodimethylamine	ND	*- *1	9.6	0.71	ug/L		01/17/25 13:25	01/19/25 17:58	1
N-Nitrosodi-n-propylamine	ND		9.6	0.99	ug/L		01/17/25 13:25	01/19/25 17:58	1

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

Client Sample ID: Encina Influent
Date Collected: 01/15/25 09:02
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		9.6	1.2	ug/L		01/17/25 13:25	01/19/25 17:58	1
Pentachlorophenol	ND		9.6	4.6	ug/L		01/17/25 13:25	01/19/25 17:58	1
Phenanthrene	ND		9.6	1.1	ug/L		01/17/25 13:25	01/19/25 17:58	1
Phenol	**7.5**	**J**	9.6	0.41	ug/L		01/17/25 13:25	01/19/25 17:58	1
Pyrene	ND		9.6	1.2	ug/L		01/17/25 13:25	01/19/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*33 - 139*	*01/17/25 13:25*	*01/19/25 17:58*	*1*
2-Fluorobiphenyl (Surr)	*55*		*33 - 126*	*01/17/25 13:25*	*01/19/25 17:58*	*1*
2-Fluorophenol (Surr)	*32*		*12 - 120*	*01/17/25 13:25*	*01/19/25 17:58*	*1*
Nitrobenzene-d5 (Surr)	*63*		*36 - 120*	*01/17/25 13:25*	*01/19/25 17:58*	*1*
Phenol-d6 (Surr)	*21*		*10 - 120*	*01/17/25 13:25*	*01/19/25 17:58*	*1*
p-Terphenyl-d14 (Surr)	*53*		*47 - 131*	*01/17/25 13:25*	*01/19/25 17:58*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Client Sample ID: Encina Influent
Date Collected: 01/15/25 09:02
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.010	0.0067	ug/L		01/17/25 05:04	01/28/25 17:18	1
4,4'-DDE	ND		0.0051	0.0028	ug/L		01/17/25 05:04	01/28/25 17:18	1
4,4'-DDT	ND		0.0051	0.0024	ug/L		01/17/25 05:04	01/28/25 17:18	1
Aldrin	ND		0.0051	0.0047	ug/L		01/17/25 05:04	01/28/25 17:18	1
alpha-Chlordane	ND		0.051	0.0013	ug/L		01/17/25 05:04	01/28/25 17:18	1
alpha-BHC	ND		0.0020	0.0018	ug/L		01/17/25 05:04	01/28/25 17:18	1
beta-BHC	ND		0.0076	0.0060	ug/L		01/17/25 05:04	01/28/25 17:18	1
Chlordane	ND		0.051	0.039	ug/L		01/17/25 05:04	01/28/25 17:18	1
delta-BHC	ND		0.0051	0.0030	ug/L		01/17/25 05:04	01/28/25 17:18	1
Dieldrin	ND		0.0051	0.0020	ug/L		01/17/25 05:04	01/28/25 17:18	1
Endosulfan I	ND		0.039	0.0020	ug/L		01/17/25 05:04	01/28/25 17:18	1
Endosulfan II	ND		0.010	0.0063	ug/L		01/17/25 05:04	01/28/25 17:18	1
Endosulfan sulfate	ND		0.0051	0.0021	ug/L		01/17/25 05:04	01/28/25 17:18	1
Endrin	ND		0.0051	0.0035	ug/L		01/17/25 05:04	01/28/25 17:18	1
Endrin aldehyde	ND		0.051	0.037	ug/L		01/17/25 05:04	01/28/25 17:18	1
Endrin ketone	ND		0.0051	0.0033	ug/L		01/17/25 05:04	01/28/25 17:18	1
gamma-Chlordane	ND		0.015	0.013	ug/L		01/17/25 05:04	01/28/25 17:18	1
gamma-BHC (Lindane)	ND		0.0020	0.0010	ug/L		01/17/25 05:04	01/28/25 17:18	1
Heptachlor	ND		0.0020	0.0018	ug/L		01/17/25 05:04	01/28/25 17:18	1
Heptachlor epoxide	ND		0.010	0.0060	ug/L		01/17/25 05:04	01/28/25 17:18	1
Methoxychlor	ND		0.010	0.0057	ug/L		01/17/25 05:04	01/28/25 17:18	1
Toxaphene	ND		0.10	0.082	ug/L		01/17/25 05:04	01/28/25 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*20 - 139*	*01/17/25 05:04*	*01/28/25 17:18*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*20 - 154*	*01/17/25 05:04*	*01/28/25 17:18*	*1*

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: Encina Influent
Date Collected: 01/15/25 09:02
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.10	0.066	ug/L		01/17/25 05:04	01/21/25 12:24	1
Aroclor-1221	ND		0.10	0.066	ug/L		01/17/25 05:04	01/21/25 12:24	1
Aroclor-1232	ND		0.10	0.066	ug/L		01/17/25 05:04	01/21/25 12:24	1
Aroclor-1242	ND		0.10	0.066	ug/L		01/17/25 05:04	01/21/25 12:24	1
Aroclor-1248	ND		0.10	0.066	ug/L		01/17/25 05:04	01/21/25 12:24	1
Aroclor-1254	ND		0.10	0.079	ug/L		01/17/25 05:04	01/21/25 12:24	1
Aroclor-1260	ND		0.10	0.079	ug/L		01/17/25 05:04	01/21/25 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*60*		*20 - 139*	*01/17/25 05:04*	*01/21/25 12:24*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*20 - 154*	*01/17/25 05:04*	*01/21/25 12:24*	*1*

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Encina Influent
Date Collected: 01/15/25 09:02
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/17/25 13:51	01/20/25 11:00	1

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

General Chemistry

Client Sample ID: Encina Influent
Date Collected: 01/15/25 09:02
Date Received: 01/16/25 18:15

Lab Sample ID: 570-214355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.7	ug/L			01/22/25 17:27	1

Surrogate Summary

Client: Encina Wastewater Authority
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Job ID: 570-214355-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
570-214355-2	Encina Influent	107	110	93	113
LCS 570-524040/1003	Lab Control Sample	108	107	98	111
LCSD 570-524040/4	Lab Control Sample Dup	107	104	96	110
MB 570-524040/7	Method Blank	109	108	93	110

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
570-214355-1	Encina Influent	73	55	32	63	21	53
LCS 570-524033/2-A	Lab Control Sample	87	74	54	77	36	87
LCSD 570-524033/3-A	Lab Control Sample Dup	77	64	37	62	26	88
MB 570-524033/1-A	Method Blank	85	71	41	78	24	84

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)

Method: 608.3 - Organochlorine Pesticides in Water

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(20-139)	(20-154)
570-214355-1	Encina Influent	70	69

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(20-139)	(20-154)
LCS 570-523809/2-A	Lab Control Sample	52	77
LCSD 570-523809/3-A	Lab Control Sample Dup	54	75
MB 570-523809/1-A	Method Blank	40	66

Surrogate Legend

Surrogate Summary

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(20-139)	(20-154)								
570-214355-1	Encina Influent	60	87								
LCS 570-523809/4-A	Lab Control Sample	69	80								
LCSD 570-523809/5-A	Lab Control Sample Dup	40	61								
MB 570-523809/1-A	Method Blank	60	81								

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-524040/7
Matrix: Water
Analysis Batch: 524040

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			01/17/25 17:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			01/17/25 17:46	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			01/17/25 17:46	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			01/17/25 17:46	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			01/17/25 17:46	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			01/17/25 17:46	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			01/17/25 17:46	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			01/17/25 17:46	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			01/17/25 17:46	1
1,3-Dichloropropene, Total	ND		0.50	0.33	ug/L			01/17/25 17:46	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			01/17/25 17:46	1
2-Chloroethyl vinyl ether	ND		2.0	0.94	ug/L			01/17/25 17:46	1
Acrolein	ND		5.0	3.4	ug/L			01/17/25 17:46	1
Acrylonitrile	ND		2.0	1.4	ug/L			01/17/25 17:46	1
Benzene	ND		0.50	0.30	ug/L			01/17/25 17:46	1
Bromodichloromethane	ND		1.0	0.24	ug/L			01/17/25 17:46	1
Bromoform	ND		1.0	0.46	ug/L			01/17/25 17:46	1
Bromomethane	ND		5.0	3.7	ug/L			01/17/25 17:46	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			01/17/25 17:46	1
Chlorobenzene	ND		1.0	0.20	ug/L			01/17/25 17:46	1
Chloroethane	ND		1.0	0.54	ug/L			01/17/25 17:46	1
Chloroform	ND		1.0	0.26	ug/L			01/17/25 17:46	1
Chloromethane	ND		1.0	0.65	ug/L			01/17/25 17:46	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			01/17/25 17:46	1
Dibromochloromethane	ND		1.0	0.25	ug/L			01/17/25 17:46	1
Ethylbenzene	ND		1.0	0.23	ug/L			01/17/25 17:46	1
Methylene Chloride	ND		2.0	0.83	ug/L			01/17/25 17:46	1
Tetrachloroethene	ND		1.0	0.39	ug/L			01/17/25 17:46	1
Toluene	ND		1.0	0.19	ug/L			01/17/25 17:46	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			01/17/25 17:46	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			01/17/25 17:46	1
Trichloroethene	ND		1.0	0.41	ug/L			01/17/25 17:46	1
Vinyl chloride	ND		0.50	0.36	ug/L			01/17/25 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*60 - 140*		*01/17/25 17:46*	*1*
Dibromofluoromethane	*108*		*60 - 140*		*01/17/25 17:46*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*01/17/25 17:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*01/17/25 17:46*	*1*

Lab Sample ID: LCS 570-524040/1003
Matrix: Water
Analysis Batch: 524040

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	22.6		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	60 - 140
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-524040/1003
Matrix: Water
Analysis Batch: 524040

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	22.5		ug/L		112	70 - 130
1,1-Dichloroethene	20.0	22.2		ug/L		111	50 - 150
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	65 - 135
1,2-Dichloroethane	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloropropane	20.0	21.0		ug/L		105	35 - 165
1,3-Dichlorobenzene	20.0	19.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	65 - 135
2-Chloroethyl vinyl ether	20.0	20.3		ug/L		102	1 - 225
Acrolein	40.0	54.1		ug/L		135	60 - 140
Acrylonitrile	20.0	22.0		ug/L		110	60 - 140
Benzene	20.0	19.1		ug/L		95	65 - 135
Bromodichloromethane	20.0	20.8		ug/L		104	65 - 135
Bromoform	20.0	18.1		ug/L		90	70 - 130
Bromomethane	20.0	23.2		ug/L		116	15 - 185
Carbon tetrachloride	20.0	21.3		ug/L		106	70 - 130
Chlorobenzene	20.0	20.2		ug/L		101	65 - 135
Chloroethane	20.0	25.4		ug/L		127	40 - 160
Chloroform	20.0	21.8		ug/L		109	70 - 135
Chloromethane	20.0	22.4		ug/L		112	1 - 205
cis-1,3-Dichloropropene	20.0	21.4		ug/L		107	25 - 175
Dibromochloromethane	20.0	19.7		ug/L		98	70 - 135
Ethylbenzene	20.0	20.0		ug/L		100	60 - 140
Methylene Chloride	20.0	20.9		ug/L		105	60 - 140
Tetrachloroethene	20.0	21.0		ug/L		105	70 - 130
Toluene	20.0	21.1		ug/L		106	70 - 130
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	70 - 130
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	50 - 150
Trichloroethene	20.0	20.9		ug/L		104	65 - 135
Vinyl chloride	20.0	20.3		ug/L		101	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*60 - 140*
Dibromofluoromethane	*107*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*

Lab Sample ID: LCSD 570-524040/4
Matrix: Water
Analysis Batch: 524040

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.1		ug/L		110	70 - 130	2	36
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	60 - 140	0	61
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	70 - 130	0	45
1,1-Dichloroethane	20.0	21.7		ug/L		108	70 - 130	4	40
1,1-Dichloroethene	20.0	20.8		ug/L		104	50 - 150	7	32
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	65 - 135	2	57
1,2-Dichloroethane	20.0	18.6		ug/L		93	70 - 130	2	49

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-524040/4
Matrix: Water
Analysis Batch: 524040

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane			20.0	20.6		ug/L		103	35 - 165	2	55
1,3-Dichlorobenzene			20.0	19.6		ug/L		98	70 - 130	1	43
1,4-Dichlorobenzene			20.0	19.4		ug/L		97	65 - 135	3	57
2-Chloroethyl vinyl ether			20.0	19.4		ug/L		97	1 - 225	5	71
Acrolein			40.0	54.3		ug/L		136	60 - 140	0	60
Acrylonitrile			20.0	21.8		ug/L		109	60 - 140	1	60
Benzene			20.0	18.5		ug/L		92	65 - 135	3	61
Bromodichloromethane			20.0	20.5		ug/L		102	65 - 135	1	56
Bromoform			20.0	18.4		ug/L		92	70 - 130	2	42
Bromomethane			20.0	23.2		ug/L		116	15 - 185	0	61
Carbon tetrachloride			20.0	20.4		ug/L		102	70 - 130	4	41
Chlorobenzene			20.0	20.0		ug/L		100	65 - 135	1	53
Chloroethane			20.0	24.6		ug/L		123	40 - 160	3	78
Chloroform			20.0	21.1		ug/L		105	70 - 135	3	30
Chloromethane			20.0	21.8		ug/L		109	1 - 205	3	60
cis-1,3-Dichloropropene			20.0	20.9		ug/L		105	25 - 175	2	58
Dibromochloromethane			20.0	19.4		ug/L		97	70 - 135	1	50
Ethylbenzene			20.0	19.2		ug/L		96	60 - 140	4	63
Methylene Chloride			20.0	20.4		ug/L		102	60 - 140	2	28
Tetrachloroethene			20.0	20.8		ug/L		104	70 - 130	1	39
Toluene			20.0	20.0		ug/L		100	70 - 130	5	41
trans-1,2-Dichloroethene			20.0	20.7		ug/L		103	70 - 130	3	45
trans-1,3-Dichloropropene			20.0	20.3		ug/L		101	50 - 150	1	86
Trichloroethene			20.0	20.3		ug/L		102	65 - 135	3	48
Vinyl chloride			20.0	19.6		ug/L		98	5 - 195	4	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*60 - 140*
Dibromofluoromethane	*104*		*60 - 140*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*

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

Lab Sample ID: MB 570-524033/1-A
Matrix: Water
Analysis Batch: 524310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.77	ug/L		01/17/25 13:25	01/19/25 11:01	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.74	ug/L		01/17/25 13:25	01/19/25 11:01	1
2,4,6-Trichlorophenol	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
2,4-Dichlorophenol	ND		10	1.4	ug/L		01/17/25 13:25	01/19/25 11:01	1
2,4-Dimethylphenol	ND		10	1.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
2,4-Dinitrophenol	ND		50	13	ug/L		01/17/25 13:25	01/19/25 11:01	1
2,4-Dinitrotoluene	ND		10	1.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
2,6-Dinitrotoluene	ND		10	1.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
2-Chloronaphthalene	ND		10	0.69	ug/L		01/17/25 13:25	01/19/25 11:01	1

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

Lab Sample ID: MB 570-524033/1-A
Matrix: Water
Analysis Batch: 524310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	0.95	ug/L		01/17/25 13:25	01/19/25 11:01	1
2-Nitrophenol	ND		10	2.3	ug/L		01/17/25 13:25	01/19/25 11:01	1
3,3'-Dichlorobenzidine	ND		10	2.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		01/17/25 13:25	01/19/25 11:01	1
4-Bromophenyl phenyl ether	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
4-Chloro-3-methylphenol	ND		10	1.4	ug/L		01/17/25 13:25	01/19/25 11:01	1
4-Chlorophenyl phenyl ether	ND		10	1.0	ug/L		01/17/25 13:25	01/19/25 11:01	1
4-Nitrophenol	ND		10	3.7	ug/L		01/17/25 13:25	01/19/25 11:01	1
Acenaphthene	ND		10	0.91	ug/L		01/17/25 13:25	01/19/25 11:01	1
Acenaphthylene	ND		10	0.87	ug/L		01/17/25 13:25	01/19/25 11:01	1
Anthracene	ND		10	0.98	ug/L		01/17/25 13:25	01/19/25 11:01	1
Benzidine	ND		50	11	ug/L		01/17/25 13:25	01/19/25 11:01	1
Benzo[a]anthracene	ND		10	1.3	ug/L		01/17/25 13:25	01/19/25 11:01	1
Benzo[a]pyrene	ND		10	1.9	ug/L		01/17/25 13:25	01/19/25 11:01	1
Benzo[b]fluoranthene	ND		10	1.7	ug/L		01/17/25 13:25	01/19/25 11:01	1
Benzo[g,h,i]perylene	ND		10	1.9	ug/L		01/17/25 13:25	01/19/25 11:01	1
Benzo[k]fluoranthene	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
Bis (2-chloroethoxy) methane	ND		10	1.0	ug/L		01/17/25 13:25	01/19/25 11:01	1
Bis(2-chloroethyl)ether	ND		25	7.7	ug/L		01/17/25 13:25	01/19/25 11:01	1
bis (2-chloroisopropyl) ether	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
Bis(2-ethylhexyl) phthalate	ND		10	4.9	ug/L		01/17/25 13:25	01/19/25 11:01	1
Butyl benzyl phthalate	ND		10	4.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
Chrysene	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
Dibenz(a,h)anthracene	ND		10	1.8	ug/L		01/17/25 13:25	01/19/25 11:01	1
Diethyl phthalate	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
Dimethyl phthalate	ND		10	0.93	ug/L		01/17/25 13:25	01/19/25 11:01	1
Di-n-butyl phthalate	ND		10	1.4	ug/L		01/17/25 13:25	01/19/25 11:01	1
Di-n-octyl phthalate	ND		10	4.6	ug/L		01/17/25 13:25	01/19/25 11:01	1
Fluoranthene	ND		10	1.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
Fluorene	ND		10	0.93	ug/L		01/17/25 13:25	01/19/25 11:01	1
Hexachloro-1,3-butadiene	ND		10	1.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
Hexachlorobenzene	ND		10	0.89	ug/L		01/17/25 13:25	01/19/25 11:01	1
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		01/17/25 13:25	01/19/25 11:01	1
Hexachloroethane	ND		10	0.88	ug/L		01/17/25 13:25	01/19/25 11:01	1
Indeno[1,2,3-cd]pyrene	ND		10	3.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
Isophorone	ND		10	1.4	ug/L		01/17/25 13:25	01/19/25 11:01	1
Naphthalene	ND		10	3.6	ug/L		01/17/25 13:25	01/19/25 11:01	1
Nitrobenzene	ND		25	7.5	ug/L		01/17/25 13:25	01/19/25 11:01	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		01/17/25 13:25	01/19/25 11:01	1
N-Nitrosodi-n-propylamine	ND		10	1.0	ug/L		01/17/25 13:25	01/19/25 11:01	1
N-Nitrosodiphenylamine	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1
Pentachlorophenol	ND		10	4.8	ug/L		01/17/25 13:25	01/19/25 11:01	1
Phenanthrene	ND		10	1.1	ug/L		01/17/25 13:25	01/19/25 11:01	1
Phenol	ND		10	0.42	ug/L		01/17/25 13:25	01/19/25 11:01	1
Pyrene	ND		10	1.2	ug/L		01/17/25 13:25	01/19/25 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*33 - 139*	*01/17/25 13:25*	*01/19/25 11:01*	*1*

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

Lab Sample ID: MB 570-524033/1-A
Matrix: Water
Analysis Batch: 524310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524033

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		33 - 126	01/17/25 13:25	01/19/25 11:01	1
2-Fluorophenol (Surr)	41		12 - 120	01/17/25 13:25	01/19/25 11:01	1
Nitrobenzene-d5 (Surr)	78		36 - 120	01/17/25 13:25	01/19/25 11:01	1
Phenol-d6 (Surr)	24		10 - 120	01/17/25 13:25	01/19/25 11:01	1
p-Terphenyl-d14 (Surr)	84		47 - 131	01/17/25 13:25	01/19/25 11:01	1

Lab Sample ID: LCS 570-524033/2-A
Matrix: Water
Analysis Batch: 524310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	100	74.9		ug/L		75	57 - 130
1,2-Diphenylhydrazine(as Azobenzene)	100	84.5		ug/L		84	57 - 120
2,4,6-Trichlorophenol	100	88.8		ug/L		89	52 - 129
2,4-Dichlorophenol	100	92.3		ug/L		92	53 - 122
2,4-Dimethylphenol	100	89.9		ug/L		90	42 - 120
2,4-Dinitrophenol	100	96.0		ug/L		96	1 - 173
2,4-Dinitrotoluene	100	97.9		ug/L		98	48 - 127
2,6-Dinitrotoluene	100	95.4		ug/L		95	68 - 137
2-Chloronaphthalene	100	79.4		ug/L		79	65 - 120
2-Chlorophenol	100	96.5		ug/L		97	36 - 120
2-Nitrophenol	100	86.7		ug/L		87	45 - 167
3,3'-Dichlorobenzidine	100	25.9		ug/L		26	8 - 213
4,6-Dinitro-2-methylphenol	100	99.0		ug/L		99	53 - 130
4-Bromophenyl phenyl ether	100	92.5		ug/L		92	65 - 120
4-Chloro-3-methylphenol	100	103		ug/L		103	41 - 128
4-Chlorophenyl phenyl ether	100	90.9		ug/L		91	38 - 145
4-Nitrophenol	100	49.0		ug/L		49	13 - 129
Acenaphthene	100	82.4		ug/L		82	60 - 132
Acenaphthylene	100	80.5		ug/L		80	54 - 126
Anthracene	100	97.7		ug/L		98	43 - 120
Benzidine	100	ND	*-	ug/L		4	20 - 143
Benzo[a]anthracene	100	93.9		ug/L		94	42 - 133
Benzo[a]pyrene	100	90.0		ug/L		90	32 - 148
Benzo[b]fluoranthene	100	90.9		ug/L		91	42 - 140
Benzo[g,h,i]perylene	100	79.2		ug/L		79	1 - 195
Benzo[k]fluoranthene	100	88.9		ug/L		89	25 - 146
Bis (2-chloroethoxy) methane	100	87.6		ug/L		88	49 - 165
Bis(2-chloroethyl)ether	100	89.0		ug/L		89	43 - 126
bis (2-chloroisopropyl) ether	100	88.7		ug/L		89	63 - 139
Bis(2-ethylhexyl) phthalate	100	98.3		ug/L		98	29 - 137
Butyl benzyl phthalate	100	85.9		ug/L		86	1 - 140
Chrysene	100	90.0		ug/L		90	44 - 140
Dibenz(a,h)anthracene	100	86.2		ug/L		86	1 - 200
Diethyl phthalate	100	101		ug/L		101	1 - 120
Dimethyl phthalate	100	93.8		ug/L		94	1 - 120
Di-n-butyl phthalate	100	105		ug/L		105	8 - 120
Di-n-octyl phthalate	100	98.2		ug/L		98	19 - 132

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

Lab Sample ID: LCS 570-524033/2-A
Matrix: Water
Analysis Batch: 524310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524033

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoranthene			100	101		ug/L		101	43 - 121		
Fluorene			100	93.3		ug/L		93	70 - 120		
Hexachloro-1,3-butadiene			100	69.8		ug/L		70	38 - 120		
Hexachlorobenzene			100	91.7		ug/L		92	8 - 142		
Hexachlorocyclopentadiene			100	66.7		ug/L		67	46 - 135		
Hexachloroethane			100	62.3		ug/L		62	55 - 120		
Indeno[1,2,3-cd]pyrene			100	85.6		ug/L		86	1 - 151		
Isophorone			100	91.3		ug/L		91	47 - 180		
Naphthalene			100	78.1		ug/L		78	36 - 120		
Nitrobenzene			100	77.0		ug/L		77	54 - 158		
N-Nitrosodimethylamine			100	49.1		ug/L		49	38 - 120		
N-Nitrosodi-n-propylamine			100	93.8		ug/L		94	14 - 198		
N-Nitrosodiphenylamine			100	103		ug/L		103	79 - 127		
Pentachlorophenol			100	89.3		ug/L		89	38 - 152		
Phenanthrene			100	95.7		ug/L		96	65 - 120		
Phenol			100	35.8		ug/L		36	17 - 120		
Pyrene			100	88.4		ug/L		88	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*33 - 139*
2-Fluorobiphenyl (Surr)	*74*		*33 - 126*
2-Fluorophenol (Surr)	*54*		*12 - 120*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*
Phenol-d6 (Surr)	*36*		*10 - 120*
p-Terphenyl-d14 (Surr)	*87*		*47 - 131*

Lab Sample ID: LCSD 570-524033/3-A
Matrix: Water
Analysis Batch: 524310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524033

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			100	57.9		ug/L		58	57 - 130	26	30
1,2-Diphenylhydrazine(as Azobenzene)			100	78.6		ug/L		79	57 - 120	7	20
2,4,6-Trichlorophenol			100	78.9		ug/L		79	52 - 129	12	35
2,4-Dichlorophenol			100	77.5		ug/L		78	53 - 122	17	30
2,4-Dimethylphenol			100	70.4		ug/L		70	42 - 120	24	35
2,4-Dinitrophenol			100	80.4		ug/L		80	1 - 173	18	79
2,4-Dinitrotoluene			100	88.2		ug/L		88	48 - 127	10	25
2,6-Dinitrotoluene			100	81.0		ug/L		81	68 - 137	16	29
2-Chloronaphthalene			100	69.5		ug/L		69	65 - 120	13	15
2-Chlorophenol			100	71.9		ug/L		72	36 - 120	29	37
2-Nitrophenol			100	65.6		ug/L		66	45 - 167	28	33
3,3'-Dichlorobenzidine			100	74.7	*1	ug/L		75	8 - 213	97	65
4,6-Dinitro-2-methylphenol			100	88.3		ug/L		88	53 - 130	11	122
4-Bromophenyl phenyl ether			100	79.0		ug/L		79	65 - 120	16	26
4-Chloro-3-methylphenol			100	94.0		ug/L		94	41 - 128	10	44
4-Chlorophenyl phenyl ether			100	78.4		ug/L		78	38 - 145	15	36
4-Nitrophenol			100	41.9		ug/L		42	13 - 129	16	79

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

Lab Sample ID: LCSD 570-524033/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 524310
Prep Batch: 524033

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			100	73.1		ug/L		73	60 - 132	12	29
Acenaphthylene			100	66.0		ug/L		66	54 - 126	20	45
Anthracene			100	85.1		ug/L		85	43 - 120	14	40
Benzidine			100	ND	*- *1	ug/L		6	20 - 143	48	30
Benzo[a]anthracene			100	84.1		ug/L		84	42 - 133	11	32
Benzo[a]pyrene			100	74.9		ug/L		75	32 - 148	18	43
Benzo[b]fluoranthene			100	74.9		ug/L		75	42 - 140	19	43
Benzo[g,h,i]perylene			100	68.4		ug/L		68	1 - 195	15	61
Benzo[k]fluoranthene			100	75.7		ug/L		76	25 - 146	16	38
Bis (2-chloroethoxy) methane			100	71.7		ug/L		72	49 - 165	20	32
Bis(2-chloroethyl)ether			100	69.3		ug/L		69	43 - 126	25	65
bis (2-chloroisopropyl) ether			100	67.9		ug/L		68	63 - 139	27	46
Bis(2-ethylhexyl) phthalate			100	89.2		ug/L		89	29 - 137	10	50
Butyl benzyl phthalate			100	80.5		ug/L		81	1 - 140	6	36
Chrysene			100	78.3		ug/L		78	44 - 140	14	53
Dibenz(a,h)anthracene			100	78.9		ug/L		79	1 - 200	9	75
Diethyl phthalate			100	91.6		ug/L		92	1 - 120	10	60
Dimethyl phthalate			100	85.5		ug/L		86	1 - 120	9	110
Di-n-butyl phthalate			100	91.1		ug/L		91	8 - 120	14	28
Di-n-octyl phthalate			100	88.7		ug/L		89	19 - 132	10	42
Fluoranthene			100	86.5		ug/L		86	43 - 121	15	40
Fluorene			100	82.1		ug/L		82	70 - 120	13	23
Hexachloro-1,3-butadiene			100	52.4		ug/L		52	38 - 120	28	38
Hexachlorobenzene			100	81.3		ug/L		81	8 - 142	12	33
Hexachlorocyclopentadiene			100	54.8		ug/L		55	46 - 135	20	20
Hexachloroethane			100	46.3	*-	ug/L		46	55 - 120	30	32
Indeno[1,2,3-cd]pyrene			100	73.3		ug/L		73	1 - 151	16	60
Isophorone			100	78.2		ug/L		78	47 - 180	15	56
Naphthalene			100	61.1		ug/L		61	36 - 120	24	39
Nitrobenzene			100	61.0		ug/L		61	54 - 158	23	37
N-Nitrosodimethylamine			100	36.8	*- *1	ug/L		37	38 - 120	28	20
N-Nitrosodi-n-propylamine			100	78.6		ug/L		79	14 - 198	18	52
N-Nitrosodiphenylamine			100	102		ug/L		102	79 - 127	2	20
Pentachlorophenol			100	76.8		ug/L		77	38 - 152	15	52
Phenanthrene			100	82.5		ug/L		83	65 - 120	15	24
Phenol			100	29.5		ug/L		30	17 - 120	19	39
Pyrene			100	89.2		ug/L		89	70 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*33 - 139*
2-Fluorobiphenyl (Surr)	*64*		*33 - 126*
2-Fluorophenol (Surr)	*37*		*12 - 120*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*
Phenol-d6 (Surr)	*26*		*10 - 120*
p-Terphenyl-d14 (Surr)	*88*		*47 - 131*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 570-523809/1-A
Matrix: Water
Analysis Batch: 524526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.010	0.0066	ug/L		01/17/25 05:04	01/20/25 13:56	1
4,4'-DDE	ND		0.0050	0.0028	ug/L		01/17/25 05:04	01/20/25 13:56	1
4,4'-DDT	ND		0.0050	0.0024	ug/L		01/17/25 05:04	01/20/25 13:56	1
Aldrin	ND		0.0050	0.0046	ug/L		01/17/25 05:04	01/20/25 13:56	1
alpha-Chlordane	ND		0.050	0.0012	ug/L		01/17/25 05:04	01/20/25 13:56	1
alpha-BHC	ND		0.0020	0.0018	ug/L		01/17/25 05:04	01/20/25 13:56	1
beta-BHC	ND		0.0075	0.0059	ug/L		01/17/25 05:04	01/20/25 13:56	1
Chlordane	ND		0.050	0.038	ug/L		01/17/25 05:04	01/20/25 13:56	1
delta-BHC	ND		0.0050	0.0030	ug/L		01/17/25 05:04	01/20/25 13:56	1
Dieldrin	ND		0.0050	0.0020	ug/L		01/17/25 05:04	01/20/25 13:56	1
Endosulfan I	ND		0.0020	0.0019	ug/L		01/17/25 05:04	01/20/25 13:56	1
Endosulfan II	ND		0.010	0.0062	ug/L		01/17/25 05:04	01/20/25 13:56	1
Endosulfan sulfate	ND		0.0050	0.0021	ug/L		01/17/25 05:04	01/20/25 13:56	1
Endrin	ND		0.0050	0.0035	ug/L		01/17/25 05:04	01/20/25 13:56	1
Endrin aldehyde	ND		0.050	0.036	ug/L		01/17/25 05:04	01/20/25 13:56	1
Endrin ketone	ND		0.0050	0.0032	ug/L		01/17/25 05:04	01/20/25 13:56	1
gamma-Chlordane	ND		0.015	0.013	ug/L		01/17/25 05:04	01/20/25 13:56	1
gamma-BHC (Lindane)	ND		0.0020	0.00099	ug/L		01/17/25 05:04	01/20/25 13:56	1
Heptachlor	ND		0.0020	0.0018	ug/L		01/17/25 05:04	01/20/25 13:56	1
Heptachlor epoxide	ND		0.010	0.0059	ug/L		01/17/25 05:04	01/20/25 13:56	1
Methoxychlor	ND		0.010	0.0056	ug/L		01/17/25 05:04	01/20/25 13:56	1
Toxaphene	ND		0.10	0.081	ug/L		01/17/25 05:04	01/20/25 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*40*		*20 - 139*	*01/17/25 05:04*	*01/20/25 13:56*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 154*	*01/17/25 05:04*	*01/20/25 13:56*	*1*

Lab Sample ID: LCS 570-523809/2-A
Matrix: Water
Analysis Batch: 524526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0500	0.0357		ug/L		71	31 - 141
4,4'-DDE	0.0500	0.0314		ug/L		63	30 - 145
4,4'-DDT	0.0500	0.0336		ug/L		67	25 - 160
Aldrin	0.0500	0.0278		ug/L		56	42 - 140
alpha-Chlordane	0.0500	0.0305	J	ug/L		61	45 - 140
alpha-BHC	0.0500	0.0271		ug/L		54	37 - 140
beta-BHC	0.0500	0.0255		ug/L		51	17 - 147
delta-BHC	0.0500	0.0242		ug/L		48	19 - 140
Dieldrin	0.0500	0.0313		ug/L		63	36 - 146
Endosulfan I	0.0500	0.0278		ug/L		56	45 - 153
Endosulfan II	0.0500	0.0303		ug/L		61	1 - 202
Endosulfan sulfate	0.0500	0.0321		ug/L		64	26 - 144
Endrin	0.0500	0.0309		ug/L		62	30 - 147
Endrin aldehyde	0.0500	ND		ug/L		61	50 - 135
Endrin ketone	0.0500	0.0336		ug/L		67	60 - 140
gamma-Chlordane	0.0500	0.0276		ug/L		55	45 - 140

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 570-523809/2-A
Matrix: Water
Analysis Batch: 524526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523809

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
gamma-BHC (Lindane)			0.0500	0.0296		ug/L		59	32 - 140		
Heptachlor			0.0500	0.0251		ug/L		50	34 - 140		
Heptachlor epoxide			0.0500	0.0282		ug/L		56	37 - 142		
Methoxychlor			0.0500	0.0341		ug/L		68	50 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*52*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*77*		*20 - 154*

Lab Sample ID: LCSD 570-523809/3-A
Matrix: Water
Analysis Batch: 524526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 523809

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.0500	0.0370		ug/L		74	31 - 141	4	39
4,4'-DDE			0.0500	0.0325		ug/L		65	30 - 145	4	35
4,4'-DDT			0.0500	0.0349		ug/L		70	25 - 160	4	42
Aldrin			0.0500	0.0296		ug/L		59	42 - 140	6	35
alpha-Chlordane			0.0500	0.0320	J	ug/L		64	45 - 140	5	35
alpha-BHC			0.0500	0.0289		ug/L		58	37 - 140	7	36
beta-BHC			0.0500	0.0308		ug/L		62	17 - 147	19	44
delta-BHC			0.0500	0.0256		ug/L		51	19 - 140	6	52
Dieldrin			0.0500	0.0328		ug/L		66	36 - 146	5	49
Endosulfan I			0.0500	0.0310		ug/L		62	45 - 153	11	28
Endosulfan II			0.0500	0.0319		ug/L		64	1 - 202	5	53
Endosulfan sulfate			0.0500	0.0331		ug/L		66	26 - 144	3	38
Endrin			0.0500	0.0323		ug/L		65	30 - 147	4	48
Endrin aldehyde			0.0500	ND		ug/L		71	50 - 135	15	25
Endrin ketone			0.0500	0.0348		ug/L		70	60 - 140	3	30
gamma-Chlordane			0.0500	0.0312		ug/L		62	45 - 140	12	35
gamma-BHC (Lindane)			0.0500	0.0317		ug/L		63	32 - 140	7	39
Heptachlor			0.0500	0.0288		ug/L		58	34 - 140	14	43
Heptachlor epoxide			0.0500	0.0300		ug/L		60	37 - 142	6	26
Methoxychlor			0.0500	0.0349		ug/L		70	50 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*54*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 154*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 570-523809/1-A
Matrix: Water
Analysis Batch: 524931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.10	0.065	ug/L		01/17/25 05:04	01/21/25 11:26	1
Aroclor-1221	ND		0.10	0.065	ug/L		01/17/25 05:04	01/21/25 11:26	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 570-523809/1-A
Matrix: Water
Analysis Batch: 524931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1232	ND		0.10	0.065	ug/L		01/17/25 05:04	01/21/25 11:26	1
Aroclor-1242	ND		0.10	0.065	ug/L		01/17/25 05:04	01/21/25 11:26	1
Aroclor-1248	ND		0.10	0.065	ug/L		01/17/25 05:04	01/21/25 11:26	1
Aroclor-1254	ND		0.10	0.077	ug/L		01/17/25 05:04	01/21/25 11:26	1
Aroclor-1260	ND		0.10	0.077	ug/L		01/17/25 05:04	01/21/25 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*60*		*20 - 139*	*01/17/25 05:04*	*01/21/25 11:26*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 154*	*01/17/25 05:04*	*01/21/25 11:26*	*1*

Lab Sample ID: LCS 570-523809/4-A
Matrix: Water
Analysis Batch: 524931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523809

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			0.200	0.159		ug/L		80	50 - 140		
Aroclor-1260			0.200	0.161		ug/L		81	8 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*69*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*80*		*20 - 154*

Lab Sample ID: LCSD 570-523809/5-A
Matrix: Water
Analysis Batch: 524931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 523809

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			0.200	0.114		ug/L		57	50 - 140	33	36
Aroclor-1260			0.200	0.139		ug/L		70	8 - 140	15	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*40*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*61*		*20 - 154*

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-524051/1-A
Matrix: Water
Analysis Batch: 524557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/17/25 13:51	01/20/25 10:47	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 570-524051/2-A
Matrix: Water
Analysis Batch: 524557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00800	0.00846		mg/L		106	85 - 115		

Lab Sample ID: LCSD 570-524051/3-A
Matrix: Water
Analysis Batch: 524557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00800	0.00861		mg/L		108	85 - 115	2	10

Lab Sample ID: 380-130514-EB-1-B MS
Matrix: Water
Analysis Batch: 524557

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00800	0.00854		mg/L		107	85 - 115		

Lab Sample ID: 380-130514-EB-1-C MSD
Matrix: Water
Analysis Batch: 524557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524051

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00880		mg/L		110	85 - 115	3	10

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

Lab Sample ID: MB 570-525592/11
Matrix: Water
Analysis Batch: 525592

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	2.7	ug/L			01/22/25 14:37	1

Lab Sample ID: LCS 570-525592/12
Matrix: Water
Analysis Batch: 525592

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	249		ug/L		100	90 - 110		

Lab Sample ID: LCSD 570-525592/13
Matrix: Water
Analysis Batch: 525592

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	249		ug/L		100	90 - 110	0	20

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

Lab Sample ID: MRL 570-525592/10
Matrix: Water
Analysis Batch: 525592

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	4.94	J	ug/L		99	50 - 150		

Lab Sample ID: 570-214098-I-1 MS
Matrix: Water
Analysis Batch: 525592

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND	F1	250	138	F1	ug/L		55	70 - 130		

Lab Sample ID: 570-214098-I-1 MSD
Matrix: Water
Analysis Batch: 525592

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	250	137	F1	ug/L		55	70 - 130	1	30

QC Association Summary

Client: Encina Wastewater Authority
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Job ID: 570-214355-1

GC/MS VOA

Analysis Batch: 524040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-2	Encina Influent	Total/NA	Water	624.1	
MB 570-524040/7	Method Blank	Total/NA	Water	624.1	
LCS 570-524040/1003	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-524040/4	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 524033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	625.1	
MB 570-524033/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-524033/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-524033/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 524310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	625.1	524033
MB 570-524033/1-A	Method Blank	Total/NA	Water	625.1	524033
LCS 570-524033/2-A	Lab Control Sample	Total/NA	Water	625.1	524033
LCSD 570-524033/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	524033

GC Semi VOA

Prep Batch: 523809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	608	
MB 570-523809/1-A	Method Blank	Total/NA	Water	608	
LCS 570-523809/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 570-523809/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 570-523809/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 570-523809/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 524526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-523809/1-A	Method Blank	Total/NA	Water	608.3	523809
LCS 570-523809/2-A	Lab Control Sample	Total/NA	Water	608.3	523809
LCSD 570-523809/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	523809

Analysis Batch: 524931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	608.3	523809
MB 570-523809/1-A	Method Blank	Total/NA	Water	608.3	523809
LCS 570-523809/4-A	Lab Control Sample	Total/NA	Water	608.3	523809
LCSD 570-523809/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	523809

Analysis Batch: 527015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	608.3	523809

QC Association Summary

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Metals

Prep Batch: 524051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	245.1	
MB 570-524051/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-524051/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-524051/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
380-130514-EB-1-B MS	Matrix Spike	Total/NA	Water	245.1	
380-130514-EB-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 524557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	245.1	524051
MB 570-524051/1-A	Method Blank	Total/NA	Water	245.1	524051
LCS 570-524051/2-A	Lab Control Sample	Total/NA	Water	245.1	524051
LCSD 570-524051/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	524051
380-130514-EB-1-B MS	Matrix Spike	Total/NA	Water	245.1	524051
380-130514-EB-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	524051

General Chemistry

Analysis Batch: 525592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-214355-1	Encina Influent	Total/NA	Water	Kelada 01	
MB 570-525592/11	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-525592/12	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-525592/13	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-525592/10	Lab Control Sample	Total/NA	Water	Kelada 01	
570-214098-I-1 MS	Matrix Spike	Dissolved	Water	Kelada 01	
570-214098-I-1 MSD	Matrix Spike Duplicate	Dissolved	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Client Sample ID: Encina Influent
Lab Sample ID: 570-214355-1
Date Collected: 01/15/25 09:02
Matrix: Water
Date Received: 01/16/25 18:15

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			1037.2 mL	2 mL	524033	01/17/25 13:25	UD4J	EET CAL 4
Total/NA	Analysis	625.1		1	1 mL	1 mL	524310	01/19/25 17:58	PQS1	EET CAL 4
	Instrument ID: GCMSSS									
Total/NA	Prep	608			984 mL	1 mL	523809	01/17/25 05:04	H1SH	EET CAL 4
Total/NA	Analysis	608.3		1	1 mL	1 mL	527015	01/28/25 17:18	N5Y3	EET CAL 4
	Instrument ID: GC52A									
Total/NA	Prep	608			984 mL	1 mL	523809	01/17/25 05:04	H1SH	EET CAL 4
Total/NA	Analysis	608.3		1	1 mL	1 mL	524931	01/21/25 12:24	P2HW	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	245.1			25 mL	50 mL	524051	01/17/25 13:51	VCN7	EET CAL 4
Total/NA	Analysis	245.1		1			524557	01/20/25 11:00	RL6Q	EET CAL 4
	Instrument ID: HG9									
Total/NA	Analysis	Kelada 01		1	8 mL	8 mL	525592	01/22/25 17:27	GG0B	EET CAL 4
	Instrument ID: LACHAT01									

Client Sample ID: Encina Influent
Lab Sample ID: 570-214355-2
Date Collected: 01/15/25 11:00
Matrix: Water
Date Received: 01/16/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	524040	01/17/25 18:47	PT	EET CAL 4
	Instrument ID: GCMSXX									

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
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	02-12-25

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

Analysis Method	Prep Method	Matrix	Analyte
608.3	608	Water	alpha-Chlordane
608.3	608	Water	Endrin ketone
608.3	608	Water	gamma-Chlordane
624.1		Water	1,3-Dichloropropene, Total

Oregon	NELAP	4175	02-02-25

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
608.3	Organochlorine Pesticides in Water	EPA	EET CAL 4
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CAL 4
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
608	Liquid-Liquid Extraction (Separatory Funnel)	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
Job ID: 570-214355-1
Project/Site: 2025 Annual Encina Influent Priority PollutantScar

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-214355-1	Encina Influent	Water	01/15/25 09:02	01/16/25 18:15
570-214355-2	Encina Influent	Water	01/15/25 11:00	01/16/25 18:15

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

Loc: 570
214355

eurofins | Environment Testing America

Client Information	Sampler: JC/SN	Lab PM: Janice Hsu	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com	Page: Page 1 of 1
Company: Encina Wastewater Authority			Job #:
Address: 6200 Avenida Encinas	Due Date Requested:		
City: Carlsbad	TAT Requested (days): 10 Working Days		
State, Zip: California, 92011			
Phone: 760-268-8801	PO #: 20250030		
Email: rachael@encinajpa.com	WO #:		
Project Name: 2025 Annual Encina Influent Priority Pollutant Scan	Project #:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hex
B - NaOH	N - Non
C - Zn Acetate	O - AsN
D - Nitric Acid	P - Na2
E - NaHSO4	Q - Na2
F - MeOH	R - Na2
G - Amchlor	S - H2S
H - Ascorbic Acid	T - TSP
I - Ice	U - Ace
J - DI Water	V - MC
K - EDTA	W - pH
L - EDA	Z - othe

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	EPA 608.3 Pesticides & PCB's	EPA 625	EPA 624 Acrolein & Acrylonitrile	Total Number of containers	Special Instructions/Note:
1	Encina Influent	1/15/25	09:02	C	WW			X					1	D
1	Encina Influent	1/15/25	09:02	C	WW				X				1	B
1	Encina Influent	1/15/25	09:02	C	WW					X			2	I
1	Encina Influent	1/15/25	09:02	C	WW						X		2	I
2	Encina Influent	1/15/25	~~09:02~~ SK 1/15/25	G	WW							X	4	I/A

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/16/25 1058	EWA		1-16-25 1638	EC
2		1-16-25 1815	EC		1/16/25 1815	EC
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: SCI 2.4/5.8

nnjq

570-214355 Chain of Custody

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-214355-1

Login Number: 214355
List Number: 1
Creator: Arellano, Cyndy

List Source: Eurofins Calscience

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

WECK LABORATORIES, INC.

Certificate of Analysis

SUPPLEMENTAL REPORT

Work Orders: 5H15063

Project: Encina Effluent Semi Annual Aug 2025

Attn: Rachael Morgan

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

Report Date: 10/21/2025
Received Date: 8/15/2025
Turnaround Time: Normal
Phones: (760) 438-3941
Fax:
P.O. #:
Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Results are related only to the items tested. 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 analytical results for the samples submitted under the attached Chain of Custody document. All analyses adhered to the method criteria, except where noted in the case narrative, sample condition checklist, and/or data qualifiers.

Reviewed by:

Ryan J. Gasio
Project Manager

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www.wecklabs.com

WECK LABORATORIES, INC.

Certificate of Analysis

SUPPLEMENTAL REPORT

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported:
10/21/2025 11:18

Case Narrative

This is a Supplement to the Certificate of Analysis previously issued 09/23/2025 for the above referenced project to report re-analysis for gross beta and to inlcude MDL reporting.

Sample Condition

Temperature	1.20 C		
COC present	✓	COC completed properly	✓
COC matches sample labels	✓	Wet ice	✓
Blue ice		Sample(s) intact	✓
Sample(s) using proper containers	✓	Sample(s) have sufficient sample volume	✓
Sample(s) received within hold time	✓	Sample(s) labels have correct preservation	✓
Sample(s) have acceptable pH	✓	Sample(s) have acceptable Cl	✓

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Encina Effluent	SN	5H15063-01	Water	08/14/25 07:00	

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported: 10/21/2025 11:18

Sample Results

Sample: Encina Effluent — Sampled: 08/14/25 7:00 by SN

5H15063-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods							
Method: EPA 200.8				**Instr:** ICPMS06			
Batch ID: W5H1650 **Preparation:** EPA 200.2				**Prepared:** 08/21/25 16:57			**Analyst:** JWC
Antimony, Total	**0.75**	0.089	0.50	ug/l	1	08/25/25	
Arsenic, Total	**1.1**	0.074	0.40	ug/l	1	08/25/25	
Cadmium, Total	ND	0.042	0.20	ug/l	1	08/25/25	
Chromium, Total	**0.64**	0.089	0.20	ug/l	1	08/25/25	
Lead, Total	ND	0.083	0.20	ug/l	1	08/25/25	
Selenium, Total	**0.76**	0.067	0.40	ug/l	1	08/25/25	
Silver, Total	ND	0.059	0.20	ug/l	1	08/25/25	
Thallium, Total	ND	0.021	0.20	ug/l	1	08/25/25	
Method: EPA 200.8				**Instr:** ICPMS06			
Batch ID: W5H2089 **Preparation:** EPA 200.2				**Prepared:** 08/26/25 17:17			**Analyst:** JWC
Copper, Total	**3.2**	0.23	0.50	ug/l	1	08/28/25	
Organo Tin by GC/MS							
Method: SM 6710B				**Instr:** GCMS23			
Batch ID: W5H2127 **Preparation:** EPA 3510C				**Prepared:** 08/27/25 09:01			**Analyst:** ajc
Tri-n-butyltin	ND	0.0023	0.0050	ug/l	1	09/23/25	
Surrogate(s)							
Tripentyltin	*91%*	*Conc: 0.198*	*43-179*			*09/23/25*	
Radiological Parameters by APHA/EPA Methods							
Method: SM 7110C				**Instr:** RAD02			
Batch ID: W5I0085 **Preparation:** _NONE (RADIOCHEM)				**Prepared:** 09/03/25 07:26			**Analyst:** psp
Gross Alpha	**1.97**			pCi/L	1	09/05/25	
Counting Uncertainty: 0.246 **MDA:** 0.05							

Sample Results

Sample: Encina Effluent — Sampled: 08/14/25 7:00 by SN

5H15063-01RE1 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Radiological Parameters by APHA/EPA Methods							
Method: EPA 900.0				**Instr:** RAD01			
Batch ID: W5I2427 **Preparation:** _NONE (RADIOCHEM)				**Prepared:** 09/30/25 12:43			**Analyst:** psp
Gross Beta	**20.5**			pCi/L	1	10/07/25	
Counting Uncertainty: 1.735 **MDA:** 2.273							

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported: 10/21/2025 11:18

Quality Control Results

Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5H1650 - EPA 200.8											
Blank (W5H1650-BLK1)				**Prepared: 08/21/25 Analyzed: 08/25/25**							
Antimony, Total	0.218	0.089	0.50	ug/l							J
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.042	0.20	ug/l							
Chromium, Total	0.123	0.089	0.20	ug/l							J
Lead, Total	0.253	0.083	0.20	ug/l							B-06
Selenium, Total	ND	0.067	0.40	ug/l							
Silver, Total	ND	0.059	0.20	ug/l							
Thallium, Total	ND	0.021	0.20	ug/l							
LCS (W5H1650-BS1)				**Prepared: 08/21/25 Analyzed: 08/25/25**							
Antimony, Total	51.4	0.089	0.50	ug/l	50.0		103	85-115			
Arsenic, Total	51.8	0.074	0.40	ug/l	50.0		103	85-115			
Cadmium, Total	51.2	0.042	0.20	ug/l	50.0		102	85-115			
Chromium, Total	51.0	0.089	0.20	ug/l	50.0		102	85-115			
Lead, Total	51.4	0.083	0.20	ug/l	50.0		103	85-115			
Selenium, Total	52.2	0.067	0.40	ug/l	50.0		104	85-115			
Silver, Total	52.1	0.059	0.20	ug/l	50.0		104	85-115			
Thallium, Total	50.3	0.021	0.20	ug/l	50.0		100	85-115			
Matrix Spike (W5H1650-MS1)	**Source: 5H15047-01**			**Prepared: 08/21/25 Analyzed: 08/25/25**							
Antimony, Total	51.7	0.089	0.50	ug/l	50.0	0.517	102	70-130			
Arsenic, Total	69.4	0.074	0.40	ug/l	50.0	17.1	105	70-130			
Cadmium, Total	49.8	0.042	0.20	ug/l	50.0	ND	99	70-130			
Chromium, Total	50.2	0.089	0.20	ug/l	50.0	0.225	100	70-130			
Lead, Total	51.5	0.083	0.20	ug/l	50.0	ND	103	70-130			
Selenium, Total	53.6	0.067	0.40	ug/l	50.0	2.92	101	70-130			
Silver, Total	49.9	0.059	0.20	ug/l	50.0	ND	100	70-130			
Thallium, Total	50.7	0.021	0.20	ug/l	50.0	ND	101	70-130			
Matrix Spike Dup (W5H1650-MSD1)	**Source: 5H15047-01**			**Prepared: 08/21/25 Analyzed: 08/25/25**							
Antimony, Total	51.8	0.089	0.50	ug/l	50.0	0.517	102	70-130	0.2	30	
Arsenic, Total	69.4	0.074	0.40	ug/l	50.0	17.1	105	70-130	0.02	30	
Cadmium, Total	50.0	0.042	0.20	ug/l	50.0	ND	100	70-130	0.5	30	
Chromium, Total	50.2	0.089	0.20	ug/l	50.0	0.225	100	70-130	0.1	30	
Lead, Total	51.2	0.083	0.20	ug/l	50.0	ND	102	70-130	0.6	30	
Selenium, Total	54.0	0.067	0.40	ug/l	50.0	2.92	102	70-130	0.8	30	
Silver, Total	50.6	0.059	0.20	ug/l	50.0	ND	101	70-130	1	30	
Thallium, Total	50.8	0.021	0.20	ug/l	50.0	ND	102	70-130	0.2	30	
Batch: W5H2089 - EPA 200.8											
Blank (W5H2089-BLK1)				**Prepared: 08/26/25 Analyzed: 08/28/25**							
Copper, Total	ND	0.23	0.50	ug/l							

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Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported: 10/21/2025 11:18

Quality Control Results (Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5H2089 - EPA 200.8 (Continued)											
LCS (W5H2089-BS1)				**Prepared: 08/26/25**	**Analyzed: 08/28/25**						
Copper, Total	51.0	0.23	0.50	ug/l	50.0		102	85-115			
Matrix Spike (W5H2089-MS1)	**Source: 5G24023-03**			**Prepared: 08/26/25**	**Analyzed: 08/28/25**						
Copper, Total	43.0	0.23	0.50	ug/l	50.0	ND	86	70-130			
Matrix Spike (W5H2089-MS2)	**Source: 5G24023-04**			**Prepared: 08/26/25**	**Analyzed: 08/28/25**						
Copper, Total	49.7	0.23	0.50	ug/l	50.0	0.842	98	70-130			
Matrix Spike Dup (W5H2089-MSD1)	**Source: 5G24023-03**			**Prepared: 08/26/25**	**Analyzed: 08/28/25**						
Copper, Total	43.4	0.23	0.50	ug/l	50.0	ND	87	70-130	1	30	
Matrix Spike Dup (W5H2089-MSD2)	**Source: 5G24023-04**			**Prepared: 08/26/25**	**Analyzed: 08/28/25**						
Copper, Total	49.8	0.23	0.50	ug/l	50.0	0.842	98	70-130	0.2	30	

Quality Control Results (Continued)

Organo Tin by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5H2127 - SM 6710B											
Blank (W5H2127-BLK1)				**Prepared: 08/27/25**	**Analyzed: 09/22/25**						
Tri-n-butyltin	ND	0.0023	0.0050	ug/l							
Surrogate(s)											
Tripentyltin	*0.232*			*ug/l*	*0.200*		*116*	*43-179*			
LCS (W5H2127-BS1)				**Prepared: 08/27/25**	**Analyzed: 09/23/25**						
Tri-n-butyltin	0.00962	0.0023	0.0050	ug/l	0.0100		96	50-150			
Surrogate(s)											
Tripentyltin	*0.209*			*ug/l*	*0.200*		*104*	*43-179*			
LCS Dup (W5H2127-BSD1)				**Prepared: 08/27/25**	**Analyzed: 09/23/25**						
Tri-n-butyltin	0.0115	0.0023	0.0050	ug/l	0.0100		115	50-150	18	40	
Surrogate(s)											
Tripentyltin	*0.198*			*ug/l*	*0.200*		*99*	*43-179*			

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported: 10/21/2025 11:18

Quality Control Results

(Continued)

Radiological Parameters by APHA/EPA Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W5H2181 - EPA 900.0											
Blank (W5H2181-BLK1)				**Prepared: 08/27/25 Analyzed: 09/02/25**							
Gross Beta	0.228			pCi/L							
Counting Uncertainty: 0.566	**MDA:** 0.95										
LCS (W5H2181-BS1)				**Prepared: 08/27/25 Analyzed: 09/03/25**							
Gross Beta	13.8			pCi/L	16.0		86	74-120			
Counting Uncertainty: 0.741	**MDA:** 0.757										
Matrix Spike (W5H2181-MS1)	**Source: 5G22020-01**			**Prepared: 08/27/25 Analyzed: 09/05/25**							
Gross Beta	356			pCi/L	160	190	104	56-116			
Counting Uncertainty: 11.33	**MDA:** 9.466										
Matrix Spike Dup (W5H2181-MSD1)	**Source: 5G22020-01**			**Prepared: 08/27/25 Analyzed: 09/05/25**							
Gross Beta	371			pCi/L	160	190	114	56-116	4	20	
Counting Uncertainty: 12.166	**MDA:** 11.493										
Batch: W5I0085 - SM 7110C											
Blank (W5I0085-BLK1)				**Prepared: 09/02/25 Analyzed: 09/05/25**							
Gross Alpha	0.233			pCi/L							
Counting Uncertainty: 0.183	**MDA:** 0.05										
LCS (W5I0085-BS1)				**Prepared: 09/02/25 Analyzed: 09/05/25**							
Gross Alpha	7.41			pCi/L	7.20		103	72-130			
Counting Uncertainty: 0.442	**MDA:** 0.05										
Matrix Spike (W5I0085-MS1)	**Source: 5G22020-01**			**Prepared: 09/02/25 Analyzed: 09/05/25**							
Gross Alpha	13.6			pCi/L	14.4	0.204	93	67-141			
Counting Uncertainty: 0.42	**MDA:** 0.2										
Matrix Spike Dup (W5I0085-MSD1)	**Source: 5G22020-01**			**Prepared: 09/02/25 Analyzed: 09/05/25**							
Gross Alpha	13.3			pCi/L	14.4	0.204	91	67-141	2	30	
Counting Uncertainty: 0.415	**MDA:** 0.2										
Batch: W5I2427 - EPA 900.0											
Blank (W5I2427-BLK1)				**Prepared: 09/30/25 Analyzed: 10/06/25**							
Gross Beta	-0.125			pCi/L							
Counting Uncertainty: 0.567	**MDA:** 0.952										
LCS (W5I2427-BS1)				**Prepared: 09/30/25 Analyzed: 10/06/25**							
Gross Beta	14.6			pCi/L	16.0		91	74-120			
Counting Uncertainty: 0.756	**MDA:** 0.762										
Matrix Spike (W5I2427-MS1)	**Source: 5I18002-10**			**Prepared: 09/30/25 Analyzed: 10/06/25**							
Gross Beta	15.0			pCi/L	16.0	0.912	88	56-116			
Counting Uncertainty: 0.817	**MDA:** 0.917										
Matrix Spike Dup (W5I2427-MSD1)	**Source: 5I18002-10**			**Prepared: 09/30/25 Analyzed: 10/06/25**							
Gross Beta	16.4			pCi/L	16.0	0.912	97	56-116	9	20	
Counting Uncertainty: 0.9	**MDA:** 1.091										

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139
www.wecklabs.com

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported:
10/21/2025 11:18

Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDA	Minimum Detectable Activity
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.

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139
www.wecklabs.com

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: Encina Effluent Semi Annual Aug 2025

Project Manager: Rachael Morgan

Reported:
10/21/2025 11:18

Analyses Accreditation Summary

Analyte	CAS #	Not By ELAP-CA	Not By NELAP OR	Not ANAB ISO 17025
EPA 900.0 in Water				
Gross Beta			●	
SM 6710B in Water				
Tri-n-butyltin	688-73-3		●	●
Tripentyltin	41784-41-2		●	●
SM 7110C in Water				
Gross Alpha			●	

This laboratory report may contain results for target analytes that are not currently certifiable by the California Environmental Laboratory Accreditation Program (ELAP). ELAP is the state agency that accredits environmental testing laboratories in California<https://www.waterboards.ca.gov/drinking_water/certlic/labs/index.html>. ELAP certification is required for laboratories that perform testing for regulatory purposes, such as drinking water, wastewater, hazardous waste, and ambient water<https://www.waterboards.ca.gov/drinking_water/certlic/labs/apply.html>. However, ELAP does not certify all analytes or methods that a laboratory may offer. Therefore, some of the target analytes in this report may not have been tested under ELAP-approved methods or quality control procedures. The results for these analytes are provided for informational purposes only and should not be usea for regulatory compliance or decision making. Please contact the laboratory if you have any questions or concerns about the report.

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/22/2025 6:13:34 AM

JOB DESCRIPTION

2025 Annual Meadowlark Effluent Priority Pollutant

JOB NUMBER

570-230870-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

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

Generated
5/22/2025 6:13:34 AM

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

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Qualifiers

General Chemistry

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.
☼	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

Job Narrative
570-230870-1

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 sample was received on 5/15/2025 4:40 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 2.9°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.

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Client Sample ID: Meadowlark Failsafe
Lab Sample ID: 570-230870-1

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Meadowlark Failsafe
Lab Sample ID: 570-230870-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/20/25 12:07	05/21/25 10:27	1

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

General Chemistry

Client Sample ID: Meadowlark Failsafe
Date Collected: 05/15/25 07:00
Date Received: 05/15/25 16:40

Lab Sample ID: 570-230870-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.7	ug/L			05/20/25 16:53	1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-573508/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 574037
Prep Batch: 573508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/20/25 12:07	05/21/25 10:21	1

Lab Sample ID: LCS 570-573508/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 574037
Prep Batch: 573508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.00732		mg/L		92	85 - 115

Lab Sample ID: LCSD 570-573508/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 574037
Prep Batch: 573508

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.00769		mg/L		96	85 - 115	5	10

Lab Sample ID: 570-230870-1 MS
Client Sample ID: Meadowlark Failsafe
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 574037
Prep Batch: 573508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00800	0.00745		mg/L		93	85 - 115

Lab Sample ID: 570-230870-1 MSD
Client Sample ID: Meadowlark Failsafe
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 574037
Prep Batch: 573508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00750		mg/L		94	85 - 115	1	10

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

Lab Sample ID: MB 570-573691/11
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 573691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		5.0	2.7	ug/L			05/20/25 13:59	1

Lab Sample ID: LCS 570-573691/12
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 573691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	250	255		ug/L		102	90 - 110

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

Lab Sample ID: LCSD 570-573691/13
Matrix: Water
Analysis Batch: 573691

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	273		ug/L		109	90 - 110	7	20

Lab Sample ID: MRL 570-573691/10
Matrix: Water
Analysis Batch: 573691

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	4.65	J	ug/L		93	50 - 150		

Lab Sample ID: 570-230928-A-2 MS
Matrix: Water
Analysis Batch: 573691

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	278		ug/L		111	70 - 130		

Lab Sample ID: 570-230928-A-2 MSD
Matrix: Water
Analysis Batch: 573691

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	295		ug/L		118	70 - 130	6	30

QC Association Summary

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Metals

Prep Batch: 573508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230870-1	Meadowlark Failsafe	Total/NA	Water	245.1	
MB 570-573508/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-573508/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-573508/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-230870-1 MS	Meadowlark Failsafe	Total/NA	Water	245.1	
570-230870-1 MSD	Meadowlark Failsafe	Total/NA	Water	245.1	

Analysis Batch: 574037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230870-1	Meadowlark Failsafe	Total/NA	Water	245.1	573508
MB 570-573508/1-A	Method Blank	Total/NA	Water	245.1	573508
LCS 570-573508/2-A	Lab Control Sample	Total/NA	Water	245.1	573508
LCSD 570-573508/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	573508
570-230870-1 MS	Meadowlark Failsafe	Total/NA	Water	245.1	573508
570-230870-1 MSD	Meadowlark Failsafe	Total/NA	Water	245.1	573508

General Chemistry

Analysis Batch: 573691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230870-1	Meadowlark Failsafe	Total/NA	Water	Kelada 01	
MB 570-573691/11	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-573691/12	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-573691/13	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-573691/10	Lab Control Sample	Total/NA	Water	Kelada 01	
570-230928-A-2 MS	Matrix Spike	Total/NA	Water	Kelada 01	
570-230928-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Client Sample ID: Meadowlark Failsafe
Lab Sample ID: 570-230870-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

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	573508	05/20/25 12:07	JP8N	EET CAL 4
Total/NA	Analysis	245.1		1			574037	05/21/25 10:27	RL6Q	EET CAL 4
	Instrument ID: HG9									
Total/NA	Analysis	Kelada 01		1	8 mL	8 mL	573691	05/20/25 16:53	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
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Laboratory: Eurofins Calscience

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

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

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

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
Job ID: 570-230870-1
Project/Site: 2025 Annual Meadowlark Effluent Priority Pollutant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-230870-1	Meadowlark Failsafe	Water	05/15/25 07:00	05/15/25 16:40

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Environment Testing America

230870

230870

Client Information	Sampler: AS	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority		Analysis Requested		Job #:
Address: 6200 Avenida Encinas	Due Date Requested:			Preservation Codes:
City: Carlsbad	TAT Requested (days): 10 Working Days			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: California, 92011				
Phone: 760-268-8801	PO #: 20250732			Other:
Email: rachael@encinajpa.com	WO #:			
Project Name: 2025 Annual Meadowlark Effluent Priority Pollutant Scan	Project #:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	Total Number of containers	Special Instructions/Note:
Meadowlark Failsafe	5/14-15/25	0700 - 0700	C	WW		X		1	D
Meadowlark Failsafe	5/14-15/25	0700 - 0700	C	WW			X	1	B

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/15/25 1129	EWA		5-15-25 1125	EC
2		5-15-25 1640	EC		5/15/25 1640	EC
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Sell 2.4 12-9

QFG3

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-230870-1

Login Number: 230870

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

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

May 30, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2505238

Ms. Rachel Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Dear Ms. Morgan,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on May 16, 2025 under your Project Name 'MDLK Dioxins'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Emily Uebelhoer

Emily Uebelhoer For Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2505238
Case Narrative

Sample Condition on Receipt:

Two aqueous samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 1613B

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-DIOXIN GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limit in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

TABLE OF CONTENTS

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2505238-01	MDLK Failsafe	14-May-25 07:00	16-May-25 09:43	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
2505238-02	MDLK Influent	14-May-25 07:00	16-May-25 09:43	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1613B

Client Data
Name: Encina Wastewater Authority
Project: MDLK Dioxins
Matrix: Aqueous

Laboratory Data
Lab Sample: B25E263-BLK1
QC Batch: B25E263
Sample Size: 1.00 L
Date Extracted: 22-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.11	3.92		5.00		28-May-25 14:12	1
1,2,3,7,8-PeCDD	ND	3.02	8.32		25.0		28-May-25 14:12	1
1,2,3,4,7,8-HxCDD	ND	1.82	6.58		25.0		28-May-25 14:12	1
1,2,3,6,7,8-HxCDD	ND	1.88	5.81		25.0		28-May-25 14:12	1
1,2,3,7,8,9-HxCDD	ND	2.06	5.99		25.0		28-May-25 14:12	1
1,2,3,4,6,7,8-HpCDD	ND		5.53	1.03	25.0		28-May-25 14:12	1
OCDD	ND	2.57	16.3		50.0		28-May-25 14:12	1
2,3,7,8-TCDF	ND	1.61	1.74		5.00		28-May-25 14:12	1
1,2,3,7,8-PeCDF	ND	1.35	6.71		25.0		28-May-25 14:12	1
2,3,4,7,8-PeCDF	ND	1.13	7.55		25.0		28-May-25 14:12	1
1,2,3,4,7,8-HxCDF	ND	1.32	6.81		25.0		28-May-25 14:12	1
1,2,3,6,7,8-HxCDF	ND	1.44	6.11		25.0		28-May-25 14:12	1
2,3,4,6,7,8-HxCDF	ND	1.54	5.93		25.0		28-May-25 14:12	1
1,2,3,7,8,9-HxCDF	ND	2.07	6.34		25.0		28-May-25 14:12	1
1,2,3,4,6,7,8-HpCDF	ND	0.810	6.28		25.0		28-May-25 14:12	1
1,2,3,4,7,8,9-HpCDF	ND	1.13	7.33		25.0		28-May-25 14:12	1
OCDF	ND	1.60	13.6		50.0		28-May-25 14:12	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00							
Totals								
Total TCDD	ND			1.34	5.00			
Total PeCDD	ND			6.02	25.0			
Total HxCDD	4.54				25.0	J		
Total HpCDD	ND			1.99	25.0			
Total TCDF	ND			3.39	5.00			
Total PeCDF	ND			0.651	25.0			
Total HxCDF	ND	2.07			25.0			
Total HpCDF	ND	1.13			25.0			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	85.0	25 - 164		28-May-25 14:12	1
13C-1,2,3,7,8-PeCDD	IS	89.5	25 - 181		28-May-25 14:12	1
13C-1,2,3,4,7,8-HxCDD	IS	76.7	32 - 141		28-May-25 14:12	1
13C-1,2,3,6,7,8-HxCDD	IS	79.7	28 - 130		28-May-25 14:12	1
13C-1,2,3,7,8,9-HxCDD	IS	74.1	32 - 141		28-May-25 14:12	1
13C-1,2,3,4,6,7,8-HpCDD	IS	77.1	23 - 140		28-May-25 14:12	1
13C-OCDD	IS	67.7	17 - 157		28-May-25 14:12	1
13C-2,3,7,8-TCDF	IS	98.6	24 - 169		28-May-25 14:12	1
13C-1,2,3,7,8-PeCDF	IS	83.7	24 - 185		28-May-25 14:12	1
13C-2,3,4,7,8-PeCDF	IS	82.2	21 - 178		28-May-25 14:12	1
13C-1,2,3,4,7,8-HxCDF	IS	92.8	26 - 152		28-May-25 14:12	1
13C-1,2,3,6,7,8-HxCDF	IS	85.7	26 - 123		28-May-25 14:12	1
13C-2,3,4,6,7,8-HxCDF	IS	84.6	28 - 136		28-May-25 14:12	1
13C-1,2,3,7,8,9-HxCDF	IS	83.7	29 - 147		28-May-25 14:12	1
13C-1,2,3,4,6,7,8-HpCDF	IS	74.9	28 - 143		28-May-25 14:12	1
13C-1,2,3,4,7,8,9-HpCDF	IS	76.8	26 - 138		28-May-25 14:12	1
13C-OCDF	IS	74.0	17 - 157		28-May-25 14:12	1
37Cl-2,3,7,8-TCDD	CRS	101	35 - 197		28-May-25 14:12	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

Sample ID: OPR **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: MDLK Dioxins
Matrix: Aqueous

Laboratory Data
Lab Sample: B25E263-BS1
QC Batch: B25E263 Date Extracted: 22-May-25 08:25
Sample Size: 1.00 L Column: ZB-DIOXIN

Analyte	Amt Found (pg/L)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	211	200	105	67-158		28-May-25 11:47	1
1,2,3,7,8-PeCDD	1090	1000	109	70-142		28-May-25 11:47	1
1,2,3,4,7,8-HxCDD	1040	1000	104	70-164		28-May-25 11:47	1
1,2,3,6,7,8-HxCDD	998	1000	99.8	76-134		28-May-25 11:47	1
1,2,3,7,8,9-HxCDD	1070	1000	107	64-162		28-May-25 11:47	1
1,2,3,4,6,7,8-HpCDD	1030	1000	103	70-140		28-May-25 11:47	1
OCDD	2220	2000	111	78-144		28-May-25 11:47	1
2,3,7,8-TCDF	203	200	101	75-158		28-May-25 11:47	1
1,2,3,7,8-PeCDF	998	1000	99.8	80-134		28-May-25 11:47	1
2,3,4,7,8-PeCDF	945	1000	94.5	68-160		28-May-25 11:47	1
1,2,3,4,7,8-HxCDF	1020	1000	102	72-134		28-May-25 11:47	1
1,2,3,6,7,8-HxCDF	1070	1000	107	84-130		28-May-25 11:47	1
2,3,4,6,7,8-HxCDF	1040	1000	104	70-156		28-May-25 11:47	1
1,2,3,7,8,9-HxCDF	1070	1000	107	78-130		28-May-25 11:47	1
1,2,3,4,6,7,8-HpCDF	989	1000	98.9	82-122		28-May-25 11:47	1
1,2,3,4,7,8,9-HpCDF	1010	1000	101	78-138		28-May-25 11:47	1
OCDF	2210	2000	111	63-170		28-May-25 11:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	87.9	20-175		28-May-25 11:47	1
13C-1,2,3,7,8-PeCDD	IS	87.0	21-227		28-May-25 11:47	1
13C-1,2,3,4,7,8-HxCDD	IS	78.6	21-193		28-May-25 11:47	1
13C-1,2,3,6,7,8-HxCDD	IS	88.1	25-163		28-May-25 11:47	1
13C-1,2,3,7,8,9-HxCDD	IS	80.8	21-193		28-May-25 11:47	1
13C-1,2,3,4,6,7,8-HpCDD	IS	73.2	26-166		28-May-25 11:47	1
13C-OCDD	IS	60.6	13-199		28-May-25 11:47	1
13C-2,3,7,8-TCDF	IS	96.2	22-152		28-May-25 11:47	1
13C-1,2,3,7,8-PeCDF	IS	80.6	21-192		28-May-25 11:47	1
13C-2,3,4,7,8-PeCDF	IS	80.7	13-328		28-May-25 11:47	1
13C-1,2,3,4,7,8-HxCDF	IS	88.8	19-202		28-May-25 11:47	1
13C-1,2,3,6,7,8-HxCDF	IS	88.5	21-159		28-May-25 11:47	1
13C-2,3,4,6,7,8-HxCDF	IS	84.7	22-176		28-May-25 11:47	1
13C-1,2,3,7,8,9-HxCDF	IS	84.0	17-205		28-May-25 11:47	1
13C-1,2,3,4,6,7,8-HpCDF	IS	74.7	21-158		28-May-25 11:47	1
13C-1,2,3,4,7,8,9-HpCDF	IS	74.7	20-186		28-May-25 11:47	1
13C-OCDF	IS	67.9	13-199		28-May-25 11:47	1
37Cl-2,3,7,8-TCDD	CRS	95.3	31-191		28-May-25 11:47	1

Sample ID: MDLK Failsafe **EPA Method 1613B**

Client Data
Name: Encina Wastewater Authority
Project: MDLK Dioxins
Matrix: Aqueous
Date Collected: 14-May-25 07:00

Laboratory Data
Lab Sample: 2505238-01
QC Batch: B25E263
Sample Size: 1.02 L
Date Received: 16-May-25 09:43
Date Extracted: 22-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.44	3.83		4.89		28-May-25 19:37	1
1,2,3,7,8-PeCDD	ND	4.25	8.14		24.4		28-May-25 19:37	1
1,2,3,4,7,8-HxCDD	ND	3.26	6.44		24.4		28-May-25 19:37	1
1,2,3,6,7,8-HxCDD	ND	3.28	5.68		24.4		28-May-25 19:37	1
1,2,3,7,8,9-HxCDD	ND	3.43	5.86		24.4		28-May-25 19:37	1
1,2,3,4,6,7,8-HpCDD	ND		5.41	1.53	24.4		28-May-25 19:37	1
OCDD	3.93		15.9		48.9	J	28-May-25 19:37	1
2,3,7,8-TCDF	ND	1.44	1.70		4.89		28-May-25 19:37	1
1,2,3,7,8-PeCDF	ND	1.72	6.56		24.4		28-May-25 19:37	1
2,3,4,7,8-PeCDF	ND	1.50	7.38		24.4		28-May-25 19:37	1
1,2,3,4,7,8-HxCDF	ND	1.71	6.66		24.4		28-May-25 19:37	1
1,2,3,6,7,8-HxCDF	ND	1.81	5.98		24.4		28-May-25 19:37	1
2,3,4,6,7,8-HxCDF	ND	2.10	5.80		24.4		28-May-25 19:37	1
1,2,3,7,8,9-HxCDF	ND	2.36	6.20		24.4		28-May-25 19:37	1
1,2,3,4,6,7,8-HpCDF	ND	1.23	6.14		24.4		28-May-25 19:37	1
1,2,3,4,7,8,9-HpCDF	ND	1.69	7.17		24.4		28-May-25 19:37	1
OCDF	ND	2.09	13.3		48.9		28-May-25 19:37	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.00118							
Totals								
Total TCDD	5.00			6.22	4.89			
Total PeCDD	ND			13.2	24.4			
Total HxCDD	3.50			6.85	24.4	J, B		
Total HpCDD	ND			5.19	24.4			
Total TCDF	ND	1.44			4.89			
Total PeCDF	ND	1.72			24.4			
Total HxCDF	ND	2.36			24.4			
Total HpCDF	ND	1.69			24.4			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	69.7	25 - 164		28-May-25 19:37	1
13C-1,2,3,7,8-PeCDD	IS	74.1	25 - 181		28-May-25 19:37	1
13C-1,2,3,4,7,8-HxCDD	IS	59.6	32 - 141		28-May-25 19:37	1
13C-1,2,3,6,7,8-HxCDD	IS	60.3	28 - 130		28-May-25 19:37	1
13C-1,2,3,7,8,9-HxCDD	IS	58.2	32 - 141		28-May-25 19:37	1
13C-1,2,3,4,6,7,8-HpCDD	IS	62.2	23 - 140		28-May-25 19:37	1
13C-OCDD	IS	54.8	17 - 157		28-May-25 19:37	1
13C-2,3,7,8-TCDF	IS	83.1	24 - 169		28-May-25 19:37	1
13C-1,2,3,7,8-PeCDF	IS	64.8	24 - 185		28-May-25 19:37	1
13C-2,3,4,7,8-PeCDF	IS	64.1	21 - 178		28-May-25 19:37	1
13C-1,2,3,4,7,8-HxCDF	IS	70.2	26 - 152		28-May-25 19:37	1
13C-1,2,3,6,7,8-HxCDF	IS	64.5	26 - 123		28-May-25 19:37	1
13C-2,3,4,6,7,8-HxCDF	IS	64.5	28 - 136		28-May-25 19:37	1
13C-1,2,3,7,8,9-HxCDF	IS	65.5	29 - 147		28-May-25 19:37	1
13C-1,2,3,4,6,7,8-HpCDF	IS	58.7	28 - 143		28-May-25 19:37	1
13C-1,2,3,4,7,8,9-HpCDF	IS	60.6	26 - 138		28-May-25 19:37	1
13C-OCDF	IS	60.9	17 - 157		28-May-25 19:37	1
37Cl-2,3,7,8-TCDD	CRS	105	35 - 197		28-May-25 19:37	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

Sample ID: MDLK Influent

EPA Method 1613B

Client Data

Name: Encina Wastewater Authority
Project: MDLK Dioxins
Matrix: Aqueous
Date Collected: 14-May-25 07:00

Laboratory Data

Lab Sample: 2505238-02
QC Batch: B25E263
Sample Size: 1.05 L
Date Received: 16-May-25 09:43
Date Extracted: 22-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.21	3.74		4.76		28-May-25 20:23	1
1,2,3,7,8-PeCDD	ND	3.87	7.93		23.8		28-May-25 20:23	1
1,2,3,4,7,8-HxCDD	ND	2.87	6.27		23.8		28-May-25 20:23	1
1,2,3,6,7,8-HxCDD	ND	2.85	5.54		23.8		28-May-25 20:23	1
1,2,3,7,8,9-HxCDD	ND	3.04	5.71		23.8		28-May-25 20:23	1
1,2,3,4,6,7,8-HpCDD	5.27		5.27		23.8	J	28-May-25 20:23	1
OCDD	ND	2.34	15.5		47.6		28-May-25 20:23	1
2,3,7,8-TCDF	2.47		1.66		4.76	J	28-May-25 20:23	1
1,2,3,7,8-PeCDF	ND	2.12	6.39		23.8		28-May-25 20:23	1
2,3,4,7,8-PeCDF	ND	1.95	7.19		23.8		28-May-25 20:23	1
1,2,3,4,7,8-HxCDF	ND	1.98	6.49		23.8		28-May-25 20:23	1
1,2,3,6,7,8-HxCDF	ND	2.10	5.82		23.8		28-May-25 20:23	1
2,3,4,6,7,8-HxCDF	ND	2.32	5.65		23.8		28-May-25 20:23	1
1,2,3,7,8,9-HxCDF	ND	2.86	6.04		23.8		28-May-25 20:23	1
1,2,3,4,6,7,8-HpCDF	1.29		5.98		23.8	J	28-May-25 20:23	1
1,2,3,4,7,8,9-HpCDF	ND	2.09	6.98		23.8		28-May-25 20:23	1
OCDF	ND	2.69	13.0		47.6		28-May-25 20:23	1
Toxic Equivalent								
TEQMinWHO2005Dioxin	0.313							
Totals								
Total TCDD	2.30			3.73	4.76	J		
Total PeCDD	ND			11.8	23.8			
Total HxCDD	4.99			7.96	23.8	J, B		
Total HpCDD	11.2				23.8	J		
Total TCDF	6.92			17.2	4.76			
Total PeCDF	ND	2.12			23.8			
Total HxCDF	ND	2.86			23.8			
Total HpCDF	1.29				23.8	J		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	70.6	25 - 164		28-May-25 20:23	1
13C-1,2,3,7,8-PeCDD	IS	70.7	25 - 181		28-May-25 20:23	1
13C-1,2,3,4,7,8-HxCDD	IS	51.6	32 - 141		28-May-25 20:23	1
13C-1,2,3,6,7,8-HxCDD	IS	52.3	28 - 130		28-May-25 20:23	1
13C-1,2,3,7,8,9-HxCDD	IS	50.4	32 - 141		28-May-25 20:23	1
13C-1,2,3,4,6,7,8-HpCDD	IS	51.8	23 - 140		28-May-25 20:23	1
13C-OCDD	IS	44.7	17 - 157		28-May-25 20:23	1
13C-2,3,7,8-TCDF	IS	78.5	24 - 169		28-May-25 20:23	1
13C-1,2,3,7,8-PeCDF	IS	62.9	24 - 185		28-May-25 20:23	1
13C-2,3,4,7,8-PeCDF	IS	61.6	21 - 178		28-May-25 20:23	1
13C-1,2,3,4,7,8-HxCDF	IS	60.0	26 - 152		28-May-25 20:23	1
13C-1,2,3,6,7,8-HxCDF	IS	55.6	26 - 123		28-May-25 20:23	1
13C-2,3,4,6,7,8-HxCDF	IS	58.4	28 - 136		28-May-25 20:23	1
13C-1,2,3,7,8,9-HxCDF	IS	57.6	29 - 147		28-May-25 20:23	1
13C-1,2,3,4,6,7,8-HpCDF	IS	50.5	28 - 143		28-May-25 20:23	1
13C-1,2,3,4,7,8,9-HpCDF	IS	51.8	26 - 138		28-May-25 20:23	1
13C-OCDF	IS	49.4	17 - 157		28-May-25 20:23	1
37Cl-2,3,7,8-TCDD	CRS	106	35 - 197		28-May-25 20:23	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit
RL - Reporting limit

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

ENTHALPY ANALYTICAL

CHAIN OF CUSTODY

GC/HRMS Methods

For Laboratory Use Only
Laboratory Project ID: 2505238 Temp: 3.3 °C
Storage ID: WR-2 Storage Secured: ☑ Yes ☐ No

Project ID: MDLK Dioxins P.O.#: 20250963 Sampler: AS (name)

TAT (check one): Standard: ☐ 21 days Rush (surcharge may apply) ☐ 14 days ☐ 7 days Other:

Invoice to: Name: Encina Wastewater Authority Company: Address: 6200 Avenida Encinas City: Carlsbad State: CA Phone #: (619)972-7178

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Steven Nguyen	5/15/25	1200	Karen Ant 14	05/16/25	09:47
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

SHIP TO: Enthalpy Analytical - EDH
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520

ATTN: Kathy Zipp

Method of Shipment:

Tracking No.:

Add Analysis(es) Requested

Container(s)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	EPA 1613: Dioxins & Furans: 2378-TCDD	EPA 1613: Dioxins & Furans: 2378 TCDD/TCDF	EPA 1613: Dioxins & Furans: PCDD/PCDF	EPA 1613: Dioxins & Furans: Full List	EPA 8290: Dioxins & Furans: 2378-TCDD	EPA 8290: Dioxins & Furans: 2378-TCDD/TCDF	EPA 8290: Dioxins & Furans: PCDD/PCDF	EPA 8290: Dioxins & Furans: Full List	EPA 1668: Homolog Totals only	EPA 1668: Coplanar PCBs	EPA 1668: WHO-29 List	EPA 1668: 209 CONGENERS	EPA 1625: PAHs	EPA 1699: Pesticides	Other	Other	Comments
MDLK Failsafe	5/14-15/25	0700-0700		2	AL									X									
MDLK Influent	5/14-15/25	0700-0700		2	AL									X									

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:
Name:
Company:
Address:
City: State: Zip:
Phone:
Email:

Container Types: A = 1 Liter Amber, G = Amber Glass Jar, O = Other:

Bottle Preservation: ☐ TZ = Trizma, ☐ = Other:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

CoC/Label Reconciliation Report WO# 2505238

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2505238-01	A MDLK Failsafe	☐ (a)		14-May-25 07:00	☑ (B)	Amber Glass NM Bottle, 1L	Aqueous	
2505238-01	B MDLK Failsafe	☐		14-May-25 07:00	☑	Amber Glass NM Bottle, 1L	Aqueous	
2505238-02	A MDLK Influent	☐		14-May-25 07:00	☑	Amber Glass NM Bottle, 1L	Aqueous	
2505238-02	B MDLK Influent	☐		14-May-25 07:00	☑	Amber Glass NM Bottle, 1L	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

Comments: (a) underlined part listed as "Meadowlark" on sample label
(B) COC and sample label lists start/end time. Used start date/time, date and

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: WS 05/16/25
XAO 05/16/25

5/16/25 Per Rachel to Kathy via phone, use 1613 Full List instead of 8290. The matrix is AQ. KDZ 5/16/25

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2025 6:53:39 PM

JOB DESCRIPTION

2025 Annual Meadowlark Influent Priority Pollutant

JOB NUMBER

570-230873-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

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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
(657)210-6359

Table of Contents

Qualifiers

GC/MS VOA

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

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.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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.
☼	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-230873-1

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 5/15/2025 4:40 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 2.9°C.

GC/MS VOA
Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-572234. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

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 570-573496. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625

Method 625.1: The following sample formed emulsions during the extraction procedure: Meadowlark Influent Comp (570-230873-1). The emulsions were broken up using sodium sulfate.

Method 625.1: The continuing calibration verification (CCV) associated with batch 570-575651 recovered above the upper control limit for Bis(2-ethylhexyl) phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625.1: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 570-573496 and analytical batch 570-575651 recovered outside control limits for the following analyte(s): Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 625.1: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-573496 and analytical batch 570-575651 recovered outside control limits for the following analytes: Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1: The following sample was diluted due to the nature of the sample matrix: Meadowlark Influent Comp (570-230873-1). Elevated reporting limits (RLs) are provided.

Method 625.1: The following sample was diluted due to the nature of the sample matrix: Meadowlark Influent Comp (570-230873-1). 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.

PCBs
Method 608.3_PCB: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-573671. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 608.3_PCB: Surrogate recovery for the following sample was outside the upper control limit: Meadowlark Influent Comp (570-230873-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Pesticides
Method 608.3_Pest: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-573671. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Metals
Method 200.7 - Total Recoverable: The initial calibration verification (ICV) result for batch 570-573170 was above the upper control limit. The affected analytes are: Antimony. Sample results were non-detects, and have been reported as qualified data.

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.

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	5.9	J	50	2.1	ug/L	5		625.1	Total/NA
Copper	0.11		0.050	0.0016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0027	J	0.050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.20	J	0.25	0.0046	mg/L	1		200.7 Rev 4.4	Total Recoverable

Client Sample ID: Meadowlark Influent Grab
Lab Sample ID: 570-230873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.29	J	1.0	0.24	ug/L	1		624.1	Total/NA
Chloroform	1.0		1.0	0.26	ug/L	1		624.1	Total/NA
Dibromochloromethane	0.34	J	1.0	0.25	ug/L	1		624.1	Total/NA
Toluene	0.26	J	1.0	0.19	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Meadowlark Influent Grab
Lab Sample ID: 570-230873-2
Date Collected: 05/15/25 08:44
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	3.4	ug/L			05/17/25 01:19	1
Acrylonitrile	ND		2.0	1.4	ug/L			05/17/25 01:19	1
Benzene	ND		0.50	0.30	ug/L			05/17/25 01:19	1
Bromodichloromethane	**0.29**	**J**	1.0	0.24	ug/L			05/17/25 01:19	1
Bromoform	ND		1.0	0.46	ug/L			05/17/25 01:19	1
Bromomethane	ND		5.0	3.7	ug/L			05/17/25 01:19	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			05/17/25 01:19	1
Chlorobenzene	ND		1.0	0.20	ug/L			05/17/25 01:19	1
Chloroethane	ND		1.0	0.54	ug/L			05/17/25 01:19	1
Chloroform	**1.0**		1.0	0.26	ug/L			05/17/25 01:19	1
Chloromethane	ND		1.0	0.65	ug/L			05/17/25 01:19	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			05/17/25 01:19	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/17/25 01:19	1
Dibromochloromethane	**0.34**	**J**	1.0	0.25	ug/L			05/17/25 01:19	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			05/17/25 01:19	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			05/17/25 01:19	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			05/17/25 01:19	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			05/17/25 01:19	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			05/17/25 01:19	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			05/17/25 01:19	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			05/17/25 01:19	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			05/17/25 01:19	1
Ethylbenzene	ND		1.0	0.23	ug/L			05/17/25 01:19	1
Methylene Chloride	ND		2.0	0.83	ug/L			05/17/25 01:19	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			05/17/25 01:19	1
m,p-Xylene	ND		1.0	0.48	ug/L			05/17/25 01:19	1
o-Xylene	ND		1.0	0.24	ug/L			05/17/25 01:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			05/17/25 01:19	1
Tetrachloroethene	ND		1.0	0.39	ug/L			05/17/25 01:19	1
Toluene	**0.26**	**J**	1.0	0.19	ug/L			05/17/25 01:19	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			05/17/25 01:19	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			05/17/25 01:19	1
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			05/17/25 01:19	1
Trichloroethene	ND		1.0	0.41	ug/L			05/17/25 01:19	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			05/17/25 01:19	1
Vinyl chloride	ND		0.50	0.36	ug/L			05/17/25 01:19	1
Xylenes, Total	ND		1.0	0.48	ug/L			05/17/25 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*60 - 140*		*05/17/25 01:19*	*1*
Dibromofluoromethane	*112*		*60 - 140*		*05/17/25 01:19*	*1*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*05/17/25 01:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*		*05/17/25 01:19*	*1*

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

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		50	3.9	ug/L		05/20/25 11:49	05/27/25 21:31	5
1,2-Diphenylhydrazine(as Azobenzene)	ND		50	3.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
2,4,6-Trichlorophenol	ND		50	5.9	ug/L		05/20/25 11:49	05/27/25 21:31	5
2,4-Dichlorophenol	ND		50	6.8	ug/L		05/20/25 11:49	05/27/25 21:31	5
2,4-Dimethylphenol	ND		50	5.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
2,4-Dinitrophenol	ND		250	65	ug/L		05/20/25 11:49	05/27/25 21:31	5
2,4-Dinitrotoluene	ND		50	5.5	ug/L		05/20/25 11:49	05/27/25 21:31	5
2,6-Dinitrotoluene	ND		50	5.6	ug/L		05/20/25 11:49	05/27/25 21:31	5
2-Chloronaphthalene	ND		50	3.5	ug/L		05/20/25 11:49	05/27/25 21:31	5
2-Chlorophenol	ND		50	4.8	ug/L		05/20/25 11:49	05/27/25 21:31	5
2-Nitrophenol	ND		50	12	ug/L		05/20/25 11:49	05/27/25 21:31	5
3,3'-Dichlorobenzidine	ND		50	11	ug/L		05/20/25 11:49	05/27/25 21:31	5
4,6-Dinitro-2-methylphenol	ND		250	57	ug/L		05/20/25 11:49	05/27/25 21:31	5
4-Bromophenyl phenyl ether	ND		50	6.2	ug/L		05/20/25 11:49	05/27/25 21:31	5
4-Chloro-3-methylphenol	ND		50	7.0	ug/L		05/20/25 11:49	05/27/25 21:31	5
4-Chlorophenyl phenyl ether	ND		50	5.2	ug/L		05/20/25 11:49	05/27/25 21:31	5
4-Nitrophenol	ND		50	18	ug/L		05/20/25 11:49	05/27/25 21:31	5
Acenaphthene	ND		50	4.6	ug/L		05/20/25 11:49	05/27/25 21:31	5
Acenaphthylene	ND		50	4.4	ug/L		05/20/25 11:49	05/27/25 21:31	5
Anthracene	ND		50	4.9	ug/L		05/20/25 11:49	05/27/25 21:31	5
Benzidine	ND	*-	250	56	ug/L		05/20/25 11:49	05/27/25 21:31	5
Benzo[a]anthracene	ND		50	6.3	ug/L		05/20/25 11:49	05/27/25 21:31	5
Benzo[a]pyrene	ND		50	9.5	ug/L		05/20/25 11:49	05/27/25 21:31	5
Benzo[b]fluoranthene	ND		50	8.6	ug/L		05/20/25 11:49	05/27/25 21:31	5
Benzo[g,h,i]perylene	ND		50	9.5	ug/L		05/20/25 11:49	05/27/25 21:31	5
Benzo[k]fluoranthene	ND		50	6.1	ug/L		05/20/25 11:49	05/27/25 21:31	5
Bis (2-chloroethoxy) methane	ND		50	5.1	ug/L		05/20/25 11:49	05/27/25 21:31	5
Bis(2-chloroethyl)ether	ND		130	39	ug/L		05/20/25 11:49	05/27/25 21:31	5
bis (2-chloroisopropyl) ether	ND		50	6.0	ug/L		05/20/25 11:49	05/27/25 21:31	5
Bis(2-ethylhexyl) phthalate	ND	*+	50	25	ug/L		05/20/25 11:49	05/28/25 14:37	5
Butyl benzyl phthalate	ND		50	21	ug/L		05/20/25 11:49	05/27/25 21:31	5
Chrysene	ND		50	6.2	ug/L		05/20/25 11:49	05/27/25 21:31	5
Dibenz(a,h)anthracene	ND		50	9.3	ug/L		05/20/25 11:49	05/27/25 21:31	5
Diethyl phthalate	ND		50	5.9	ug/L		05/20/25 11:49	05/27/25 21:31	5
Dimethyl phthalate	ND		50	4.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
Di-n-butyl phthalate	ND		50	7.0	ug/L		05/20/25 11:49	05/27/25 21:31	5
Di-n-octyl phthalate	ND	*+	50	23	ug/L		05/20/25 11:49	05/27/25 21:31	5
Fluoranthene	ND		50	5.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
Fluorene	ND		50	4.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
Hexachloro-1,3-butadiene	ND		50	5.6	ug/L		05/20/25 11:49	05/27/25 21:31	5
Hexachlorobenzene	ND		50	4.5	ug/L		05/20/25 11:49	05/27/25 21:31	5
Hexachlorocyclopentadiene	ND		130	15	ug/L		05/20/25 11:49	05/27/25 21:31	5
Hexachloroethane	ND		50	4.4	ug/L		05/20/25 11:49	05/27/25 21:31	5
Indeno[1,2,3-cd]pyrene	ND		50	15	ug/L		05/20/25 11:49	05/27/25 21:31	5
Isophorone	ND		50	7.2	ug/L		05/20/25 11:49	05/27/25 21:31	5
Naphthalene	ND		50	18	ug/L		05/20/25 11:49	05/27/25 21:31	5
Nitrobenzene	ND		130	38	ug/L		05/20/25 11:49	05/27/25 21:31	5
N-Nitrosodimethylamine	ND		50	3.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
N-Nitrosodi-n-propylamine	ND		50	5.2	ug/L		05/20/25 11:49	05/27/25 21:31	5

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

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		50	6.1	ug/L		05/20/25 11:49	05/27/25 21:31	5
Pentachlorophenol	ND		50	24	ug/L		05/20/25 11:49	05/27/25 21:31	5
Phenanthrene	ND		50	5.7	ug/L		05/20/25 11:49	05/27/25 21:31	5
Phenol	**5.9**	**J**	50	2.1	ug/L		05/20/25 11:49	05/27/25 21:31	5
Pyrene	ND		50	6.1	ug/L		05/20/25 11:49	05/27/25 21:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*33 - 139*	*05/20/25 11:49*	*05/27/25 21:31*	*5*
2,4,6-Tribromophenol (Surr)	*78*		*33 - 139*	*05/20/25 11:49*	*05/28/25 14:37*	*5*
2-Fluorobiphenyl (Surr)	*72*		*33 - 126*	*05/20/25 11:49*	*05/27/25 21:31*	*5*
2-Fluorobiphenyl (Surr)	*70*		*33 - 126*	*05/20/25 11:49*	*05/28/25 14:37*	*5*
2-Fluorophenol (Surr)	*35*		*12 - 120*	*05/20/25 11:49*	*05/27/25 21:31*	*5*
2-Fluorophenol (Surr)	*42*		*12 - 120*	*05/20/25 11:49*	*05/28/25 14:37*	*5*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*	*05/20/25 11:49*	*05/27/25 21:31*	*5*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*05/20/25 11:49*	*05/28/25 14:37*	*5*
Phenol-d6 (Surr)	*26*		*10 - 120*	*05/20/25 11:49*	*05/27/25 21:31*	*5*
Phenol-d6 (Surr)	*30*		*10 - 120*	*05/20/25 11:49*	*05/28/25 14:37*	*5*
p-Terphenyl-d14 (Surr)	*75*		*47 - 131*	*05/20/25 11:49*	*05/27/25 21:31*	*5*
p-Terphenyl-d14 (Surr)	*73*		*47 - 131*	*05/20/25 11:49*	*05/28/25 14:37*	*5*

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: EPA 608.3 - Organochlorine Pesticides in Water

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0095	0.0063	ug/L		05/20/25 17:31	05/29/25 17:08	1
4,4'-DDE	ND		0.0048	0.0026	ug/L		05/20/25 17:31	05/29/25 17:08	1
4,4'-DDT	ND		0.0048	0.0023	ug/L		05/20/25 17:31	05/29/25 17:08	1
Aldrin	ND		0.0048	0.0044	ug/L		05/20/25 17:31	05/29/25 17:08	1
alpha-Chlordane	ND		0.048	0.0012	ug/L		05/20/25 17:31	05/29/25 17:08	1
alpha-BHC	ND		0.0019	0.0017	ug/L		05/20/25 17:31	05/29/25 17:08	1
beta-BHC	ND		0.0071	0.0056	ug/L		05/20/25 17:31	05/29/25 17:08	1
Chlordane	ND		0.048	0.036	ug/L		05/20/25 17:31	05/29/25 17:08	1
delta-BHC	ND		0.0048	0.0028	ug/L		05/20/25 17:31	05/29/25 17:08	1
Dieldrin	ND		0.0048	0.0019	ug/L		05/20/25 17:31	05/29/25 17:08	1
Endosulfan I	ND		0.0019	0.0018	ug/L		05/20/25 17:31	05/29/25 17:08	1
Endosulfan II	ND		0.0095	0.0059	ug/L		05/20/25 17:31	05/29/25 17:08	1
Endosulfan sulfate	ND		0.0048	0.0020	ug/L		05/20/25 17:31	05/29/25 17:08	1
Endrin	ND		0.0048	0.0033	ug/L		05/20/25 17:31	05/29/25 17:08	1
Endrin aldehyde	ND		0.048	0.035	ug/L		05/20/25 17:31	05/29/25 17:08	1
Endrin ketone	ND		0.0048	0.0030	ug/L		05/20/25 17:31	05/29/25 17:08	1
gamma-Chlordane	ND		0.014	0.012	ug/L		05/20/25 17:31	05/29/25 17:08	1
gamma-BHC (Lindane)	ND		0.0019	0.00094	ug/L		05/20/25 17:31	05/29/25 17:08	1
Heptachlor	ND		0.0019	0.0017	ug/L		05/20/25 17:31	05/29/25 17:08	1
Heptachlor epoxide	ND		0.0095	0.0056	ug/L		05/20/25 17:31	05/29/25 17:08	1
Methoxychlor	ND		0.0095	0.0053	ug/L		05/20/25 17:31	05/29/25 17:08	1
Toxaphene	ND		0.095	0.077	ug/L		05/20/25 17:31	05/29/25 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*48*		*20 - 139*	*05/20/25 17:31*	*05/29/25 17:08*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*20 - 154*	*05/20/25 17:31*	*05/29/25 17:08*	*1*

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.095	0.062	ug/L		05/20/25 17:31	05/23/25 15:30	1
Aroclor-1221	ND		0.095	0.062	ug/L		05/20/25 17:31	05/23/25 15:30	1
Aroclor-1232	ND		0.095	0.062	ug/L		05/20/25 17:31	05/23/25 15:30	1
Aroclor-1242	ND		0.095	0.062	ug/L		05/20/25 17:31	05/23/25 15:30	1
Aroclor-1248	ND		0.095	0.062	ug/L		05/20/25 17:31	05/23/25 15:30	1
Aroclor-1254	ND		0.095	0.074	ug/L		05/20/25 17:31	05/23/25 15:30	1
Aroclor-1260	ND		0.095	0.074	ug/L		05/20/25 17:31	05/23/25 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*33*		*20 - 139*	*05/20/25 17:31*	*05/23/25 15:30*	*1*
DCB Decachlorobiphenyl (Surr)	*174*	*S1+*	*20 - 154*	*05/20/25 17:31*	*05/23/25 15:30*	*1*

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.10	0.015	mg/L		05/19/25 07:11	05/19/25 14:11	1
Arsenic	ND		0.10	0.0097	mg/L		05/19/25 07:11	05/19/25 14:11	1
Chromium	ND		0.050	0.0030	mg/L		05/19/25 07:11	05/19/25 14:11	1
Copper	**0.11**		0.050	0.0016	mg/L		05/19/25 07:11	05/19/25 14:11	1
Lead	ND		0.050	0.0060	mg/L		05/19/25 07:11	05/19/25 14:11	1
Nickel	**0.0027**	**J**	0.050	0.0015	mg/L		05/19/25 07:11	05/19/25 14:11	1
Selenium	ND		0.10	0.012	mg/L		05/19/25 07:11	05/19/25 14:11	1
Silver	ND		0.010	0.0034	mg/L		05/19/25 07:11	05/19/25 14:11	1
Thallium	ND		0.050	0.0086	mg/L		05/19/25 07:11	05/19/25 14:11	1
Zinc	**0.20**	**J**	0.25	0.0046	mg/L		05/19/25 07:11	05/19/25 14:11	1

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

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

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.26	ug/L		05/20/25 06:05	05/20/25 13:15	1
Cadmium	ND		1.0	0.13	ug/L		05/20/25 06:05	05/20/25 13:15	1

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/20/25 12:07	05/21/25 10:54	1

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

General Chemistry

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1
Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.7	ug/L			05/20/25 17:00	1

Surrogate Summary

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
570-230873-2	Meadowlark Influent Grab	97	112	92	112
LCS 570-572234/1003	Lab Control Sample	100	101	98	98
LCSD 570-572234/4	Lab Control Sample Dup	99	100	98	97
MB 570-572234/8	Method Blank	96	107	95	104

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
570-230873-1	Meadowlark Influent Comp	97	72	35	80	26	75
570-230873-1	Meadowlark Influent Comp	78	70	42	78	30	73
LCS 570-573496/2-A	Lab Control Sample	114	85	55	94	37	104
LCSD 570-573496/3-A	Lab Control Sample Dup	107	84	55	90	37	103
MB 570-573496/1-A	Method Blank	110	88	54	104	34	108

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)

Method: 608.3 - Organochlorine Pesticides in Water

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(20-139)	(20-154)
570-230873-1	Meadowlark Influent Comp	48	58
LCS 570-573671/8-A	Lab Control Sample	68	89

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB2
Lab Sample ID	Client Sample ID	(20-139)	(20-154)
LCS 570-573671/2-A	Lab Control Sample	72	90
LCS 570-573671/6-A	Lab Control Sample	57	57

Surrogate Summary

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB2										
Lab Sample ID	Client Sample ID	(20-139)	(20-154)										
LCSD 570-573671/3-A	Lab Control Sample Dup	63	86										
LCSD 570-573671/7-A	Lab Control Sample Dup	60	59										
LCSD 570-573671/9-A	Lab Control Sample Dup	56	76										

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

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

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX2	DCB2										
Lab Sample ID	Client Sample ID	(20-139)	(20-154)										
MB 570-573671/1-A	Method Blank	59	86										

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(20-139)	(20-154)										
570-230873-1	Meadowlark Influent Comp	33	174 S1+										
LCS 570-573671/4-A	Lab Control Sample	59	80										
LCSD 570-573671/5-A	Lab Control Sample Dup	74	90										
MB 570-573671/1-A	Method Blank	65	87										

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-572234/8
Matrix: Water
Analysis Batch: 572234

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	3.4	ug/L			05/16/25 18:20	1
Acrylonitrile	ND		2.0	1.4	ug/L			05/16/25 18:20	1
Benzene	ND		0.50	0.30	ug/L			05/16/25 18:20	1
Bromodichloromethane	ND		1.0	0.24	ug/L			05/16/25 18:20	1
Bromoform	ND		1.0	0.46	ug/L			05/16/25 18:20	1
Bromomethane	ND		5.0	3.7	ug/L			05/16/25 18:20	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			05/16/25 18:20	1
Chlorobenzene	ND		1.0	0.20	ug/L			05/16/25 18:20	1
Chloroethane	ND		1.0	0.54	ug/L			05/16/25 18:20	1
Chloroform	ND		1.0	0.26	ug/L			05/16/25 18:20	1
Chloromethane	ND		1.0	0.65	ug/L			05/16/25 18:20	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			05/16/25 18:20	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/16/25 18:20	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/16/25 18:20	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			05/16/25 18:20	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			05/16/25 18:20	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			05/16/25 18:20	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			05/16/25 18:20	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			05/16/25 18:20	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			05/16/25 18:20	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			05/16/25 18:20	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			05/16/25 18:20	1
Ethylbenzene	ND		1.0	0.23	ug/L			05/16/25 18:20	1
Methylene Chloride	ND		2.0	0.83	ug/L			05/16/25 18:20	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			05/16/25 18:20	1
m,p-Xylene	ND		1.0	0.48	ug/L			05/16/25 18:20	1
o-Xylene	ND		1.0	0.24	ug/L			05/16/25 18:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			05/16/25 18:20	1
Tetrachloroethene	ND		1.0	0.39	ug/L			05/16/25 18:20	1
Toluene	ND		1.0	0.19	ug/L			05/16/25 18:20	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			05/16/25 18:20	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			05/16/25 18:20	1
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			05/16/25 18:20	1
Trichloroethene	ND		1.0	0.41	ug/L			05/16/25 18:20	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			05/16/25 18:20	1
Vinyl chloride	ND		0.50	0.36	ug/L			05/16/25 18:20	1
Xylenes, Total	ND		1.0	0.48	ug/L			05/16/25 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*60 - 140*		*05/16/25 18:20*	*1*
Dibromofluoromethane	*107*		*60 - 140*		*05/16/25 18:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*05/16/25 18:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*05/16/25 18:20*	*1*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-572234/1003
Matrix: Water
Analysis Batch: 572234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	40.0	36.5		ug/L		91	60 - 140
Acrylonitrile	20.0	19.7		ug/L		99	60 - 140
Benzene	20.0	19.5		ug/L		97	65 - 135
Bromodichloromethane	20.0	18.7		ug/L		93	65 - 135
Bromoform	20.0	17.9		ug/L		90	70 - 130
Bromomethane	20.0	17.1		ug/L		86	15 - 185
Carbon tetrachloride	20.0	19.3		ug/L		97	70 - 130
Chlorobenzene	20.0	18.5		ug/L		93	65 - 135
Chloroethane	20.0	17.3		ug/L		86	40 - 160
Chloroform	20.0	19.3		ug/L		96	70 - 135
Chloromethane	20.0	15.1		ug/L		75	1 - 205
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	60 - 140
cis-1,3-Dichloropropene	20.0	19.1		ug/L		96	25 - 175
Dibromochloromethane	20.0	18.4		ug/L		92	70 - 135
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	70 - 130
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	65 - 135
1,4-Dichlorobenzene	20.0	18.2		ug/L		91	65 - 135
Dichlorodifluoromethane	20.0	19.9		ug/L		99	60 - 140
1,1-Dichloroethane	20.0	19.1		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	18.0		ug/L		90	70 - 130
1,1-Dichloroethene	20.0	18.0		ug/L		90	50 - 150
1,2-Dichloropropane	20.0	18.5		ug/L		93	35 - 165
Ethylbenzene	20.0	18.2		ug/L		91	60 - 140
Methylene Chloride	20.0	20.2		ug/L		101	60 - 140
Methyl-t-Butyl Ether (MTBE)	20.0	18.5		ug/L		92	60 - 140
m,p-Xylene	40.0	37.1		ug/L		93	60 - 140
o-Xylene	20.0	18.1		ug/L		91	60 - 140
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	60 - 140
Tetrachloroethene	20.0	19.2		ug/L		96	70 - 130
Toluene	20.0	18.8		ug/L		94	70 - 130
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	20.0	19.3		ug/L		97	50 - 150
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	70 - 130
Trichloroethene	20.0	18.6		ug/L		93	65 - 135
Trichlorofluoromethane	20.0	20.7		ug/L		103	50 - 150
Vinyl chloride	20.0	16.9		ug/L		85	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*60 - 140*
Dibromofluoromethane	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-572234/4
Matrix: Water
Analysis Batch: 572234

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
Acrolein			40.0	34.9		ug/L		87	60 - 140	5	60
Acrylonitrile			20.0	18.6		ug/L		93	60 - 140	6	60
Benzene			20.0	18.6		ug/L		93	65 - 135	5	61
Bromodichloromethane			20.0	17.9		ug/L		90	65 - 135	4	56
Bromoform			20.0	18.5		ug/L		93	70 - 130	3	42
Bromomethane			20.0	16.5		ug/L		83	15 - 185	4	61
Carbon tetrachloride			20.0	18.2		ug/L		91	70 - 130	6	41
Chlorobenzene			20.0	18.1		ug/L		90	65 - 135	2	53
Chloroethane			20.0	16.1		ug/L		81	40 - 160	7	78
Chloroform			20.0	18.2		ug/L		91	70 - 135	6	30
Chloromethane			20.0	14.3		ug/L		72	1 - 205	5	60
cis-1,2-Dichloroethene			20.0	19.1		ug/L		95	60 - 140	4	30
cis-1,3-Dichloropropene			20.0	18.7		ug/L		93	25 - 175	2	58
Dibromochloromethane			20.0	17.9		ug/L		89	70 - 135	3	50
1,3-Dichlorobenzene			20.0	18.5		ug/L		93	70 - 130	1	43
1,2-Dichlorobenzene			20.0	18.5		ug/L		93	65 - 135	1	57
1,4-Dichlorobenzene			20.0	18.1		ug/L		91	65 - 135	1	57
Dichlorodifluoromethane			20.0	18.5		ug/L		92	60 - 140	7	30
1,1-Dichloroethane			20.0	18.2		ug/L		91	70 - 130	5	40
1,2-Dichloroethane			20.0	17.3		ug/L		87	70 - 130	4	49
1,1-Dichloroethene			20.0	17.2		ug/L		86	50 - 150	4	32
1,2-Dichloropropane			20.0	18.0		ug/L		90	35 - 165	3	55
Ethylbenzene			20.0	17.6		ug/L		88	60 - 140	3	63
Methylene Chloride			20.0	19.5		ug/L		97	60 - 140	4	28
Methyl-t-Butyl Ether (MTBE)			20.0	18.3		ug/L		91	60 - 140	1	30
m,p-Xylene			40.0	35.9		ug/L		90	60 - 140	3	30
o-Xylene			20.0	17.4		ug/L		87	60 - 140	4	30
1,1,2,2-Tetrachloroethane			20.0	18.6		ug/L		93	60 - 140	0	61
Tetrachloroethene			20.0	18.6		ug/L		93	70 - 130	3	39
Toluene			20.0	18.3		ug/L		92	70 - 130	3	41
trans-1,2-Dichloroethene			20.0	18.9		ug/L		95	70 - 130	6	45
trans-1,3-Dichloropropene			20.0	18.8		ug/L		94	50 - 150	3	86
1,1,1-Trichloroethane			20.0	18.3		ug/L		91	70 - 130	5	36
Trichloroethene			20.0	17.8		ug/L		89	65 - 135	5	48
Trichlorofluoromethane			20.0	19.2		ug/L		96	50 - 150	7	84
Vinyl chloride			20.0	16.2		ug/L		81	5 - 195	4	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*60 - 140*
Dibromofluoromethane	*100*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*

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

Lab Sample ID: MB 570-573496/1-A
Matrix: Water
Analysis Batch: 575651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.77	ug/L		05/20/25 11:49	05/24/25 23:30	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.74	ug/L		05/20/25 11:49	05/24/25 23:30	1
2,4,6-Trichlorophenol	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
2,4-Dichlorophenol	ND		10	1.4	ug/L		05/20/25 11:49	05/24/25 23:30	1
2,4-Dimethylphenol	ND		10	1.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
2,4-Dinitrophenol	ND		50	13	ug/L		05/20/25 11:49	05/24/25 23:30	1
2,4-Dinitrotoluene	ND		10	1.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
2,6-Dinitrotoluene	ND		10	1.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
2-Chloronaphthalene	ND		10	0.69	ug/L		05/20/25 11:49	05/24/25 23:30	1
2-Chlorophenol	ND		10	0.95	ug/L		05/20/25 11:49	05/24/25 23:30	1
2-Nitrophenol	ND		10	2.3	ug/L		05/20/25 11:49	05/24/25 23:30	1
3,3'-Dichlorobenzidine	ND		10	2.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		05/20/25 11:49	05/24/25 23:30	1
4-Bromophenyl phenyl ether	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
4-Chloro-3-methylphenol	ND		10	1.4	ug/L		05/20/25 11:49	05/24/25 23:30	1
4-Chlorophenyl phenyl ether	ND		10	1.0	ug/L		05/20/25 11:49	05/24/25 23:30	1
4-Nitrophenol	ND		10	3.7	ug/L		05/20/25 11:49	05/24/25 23:30	1
Acenaphthene	ND		10	0.91	ug/L		05/20/25 11:49	05/24/25 23:30	1
Acenaphthylene	ND		10	0.87	ug/L		05/20/25 11:49	05/24/25 23:30	1
Anthracene	ND		10	0.98	ug/L		05/20/25 11:49	05/24/25 23:30	1
Benzidine	ND		50	11	ug/L		05/20/25 11:49	05/24/25 23:30	1
Benzo[a]anthracene	ND		10	1.3	ug/L		05/20/25 11:49	05/24/25 23:30	1
Benzo[a]pyrene	ND		10	1.9	ug/L		05/20/25 11:49	05/24/25 23:30	1
Benzo[b]fluoranthene	ND		10	1.7	ug/L		05/20/25 11:49	05/24/25 23:30	1
Benzo[g,h,i]perylene	ND		10	1.9	ug/L		05/20/25 11:49	05/24/25 23:30	1
Benzo[k]fluoranthene	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
Bis (2-chloroethoxy) methane	ND		10	1.0	ug/L		05/20/25 11:49	05/24/25 23:30	1
Bis(2-chloroethyl)ether	ND		25	7.7	ug/L		05/20/25 11:49	05/24/25 23:30	1
bis (2-chloroisopropyl) ether	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
Bis(2-ethylhexyl) phthalate	ND		10	4.9	ug/L		05/20/25 11:49	05/24/25 23:30	1
Butyl benzyl phthalate	ND		10	4.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
Chrysene	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
Dibenz(a,h)anthracene	ND		10	1.8	ug/L		05/20/25 11:49	05/24/25 23:30	1
Diethyl phthalate	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
Dimethyl phthalate	ND		10	0.93	ug/L		05/20/25 11:49	05/24/25 23:30	1
Di-n-butyl phthalate	ND		10	1.4	ug/L		05/20/25 11:49	05/24/25 23:30	1
Di-n-octyl phthalate	ND		10	4.6	ug/L		05/20/25 11:49	05/24/25 23:30	1
Fluoranthene	ND		10	1.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
Fluorene	ND		10	0.93	ug/L		05/20/25 11:49	05/24/25 23:30	1
Hexachloro-1,3-butadiene	ND		10	1.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
Hexachlorobenzene	ND		10	0.89	ug/L		05/20/25 11:49	05/24/25 23:30	1
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		05/20/25 11:49	05/24/25 23:30	1
Hexachloroethane	ND		10	0.88	ug/L		05/20/25 11:49	05/24/25 23:30	1
Indeno[1,2,3-cd]pyrene	ND		10	3.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
Isophorone	ND		10	1.4	ug/L		05/20/25 11:49	05/24/25 23:30	1
Naphthalene	ND		10	3.6	ug/L		05/20/25 11:49	05/24/25 23:30	1
Nitrobenzene	ND		25	7.5	ug/L		05/20/25 11:49	05/24/25 23:30	1
N-Nitrosodimethylamine	ND		10	0.74	ug/L		05/20/25 11:49	05/24/25 23:30	1

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

Lab Sample ID: MB 570-573496/1-A
Matrix: Water
Analysis Batch: 575651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	1.0	ug/L		05/20/25 11:49	05/24/25 23:30	1
N-Nitrosodiphenylamine	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1
Pentachlorophenol	ND		10	4.8	ug/L		05/20/25 11:49	05/24/25 23:30	1
Phenanthrene	ND		10	1.1	ug/L		05/20/25 11:49	05/24/25 23:30	1
Phenol	ND		10	0.42	ug/L		05/20/25 11:49	05/24/25 23:30	1
Pyrene	ND		10	1.2	ug/L		05/20/25 11:49	05/24/25 23:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*110*		*33 - 139*	*05/20/25 11:49*	*05/24/25 23:30*	*1*
2-Fluorobiphenyl (Surr)	*88*		*33 - 126*	*05/20/25 11:49*	*05/24/25 23:30*	*1*
2-Fluorophenol (Surr)	*54*		*12 - 120*	*05/20/25 11:49*	*05/24/25 23:30*	*1*
Nitrobenzene-d5 (Surr)	*104*		*36 - 120*	*05/20/25 11:49*	*05/24/25 23:30*	*1*
Phenol-d6 (Surr)	*34*		*10 - 120*	*05/20/25 11:49*	*05/24/25 23:30*	*1*
p-Terphenyl-d14 (Surr)	*108*		*47 - 131*	*05/20/25 11:49*	*05/24/25 23:30*	*1*

Lab Sample ID: LCS 570-573496/2-A
Matrix: Water
Analysis Batch: 575651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	100	92.8		ug/L		93	57 - 130
1,2-Diphenylhydrazine(as Azobenzene)	100	80.0		ug/L		80	57 - 120
2,4,6-Trichlorophenol	100	99.3		ug/L		99	52 - 129
2,4-Dichlorophenol	100	96.6		ug/L		97	53 - 122
2,4-Dimethylphenol	100	77.7		ug/L		78	42 - 120
2,4-Dinitrophenol	100	113		ug/L		113	1 - 173
2,4-Dinitrotoluene	100	96.5		ug/L		96	48 - 127
2,6-Dinitrotoluene	100	98.4		ug/L		98	68 - 137
2-Chloronaphthalene	100	90.1		ug/L		90	65 - 120
2-Chlorophenol	100	89.0		ug/L		89	36 - 120
2-Nitrophenol	100	105		ug/L		105	45 - 167
3,3'-Dichlorobenzidine	100	112		ug/L		112	8 - 213
4,6-Dinitro-2-methylphenol	100	103		ug/L		103	53 - 130
4-Bromophenyl phenyl ether	100	105		ug/L		105	65 - 120
4-Chloro-3-methylphenol	100	98.1		ug/L		98	41 - 128
4-Chlorophenyl phenyl ether	100	96.0		ug/L		96	38 - 145
4-Nitrophenol	100	47.1		ug/L		47	13 - 129
Acenaphthene	100	88.9		ug/L		89	60 - 132
Acenaphthylene	100	81.9		ug/L		82	54 - 126
Anthracene	100	92.1		ug/L		92	43 - 120
Benzidine	100	15.3	J *-	ug/L		15	20 - 143
Benzo[a]anthracene	100	95.4		ug/L		95	42 - 133
Benzo[a]pyrene	100	95.9		ug/L		96	32 - 148
Benzo[b]fluoranthene	100	97.0		ug/L		97	42 - 140
Benzo[g,h,i]perylene	100	91.5		ug/L		91	1 - 195
Benzo[k]fluoranthene	100	92.9		ug/L		93	25 - 146
Bis (2-chloroethoxy) methane	100	87.2		ug/L		87	49 - 165
Bis(2-chloroethyl)ether	100	76.8		ug/L		77	43 - 126

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

Lab Sample ID: LCS 570-573496/2-A
Matrix: Water
Analysis Batch: 575651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
bis (2-chloroisopropyl) ether	100	71.0		ug/L		71	63 - 139
Bis(2-ethylhexyl) phthalate	100	145	*+	ug/L		145	29 - 137
Butyl benzyl phthalate	100	132		ug/L		132	1 - 140
Chrysene	100	87.9		ug/L		88	44 - 140
Dibenz(a,h)anthracene	100	100		ug/L		100	1 - 200
Diethyl phthalate	100	105		ug/L		105	1 - 120
Dimethyl phthalate	100	94.6		ug/L		95	1 - 120
Di-n-butyl phthalate	100	111		ug/L		111	8 - 120
Di-n-octyl phthalate	100	139	*+	ug/L		139	19 - 132
Fluoranthene	100	91.0		ug/L		91	43 - 121
Fluorene	100	91.9		ug/L		92	70 - 120
Hexachloro-1,3-butadiene	100	94.1		ug/L		94	38 - 120
Hexachlorobenzene	100	87.9		ug/L		88	8 - 142
Hexachlorocyclopentadiene	100	102		ug/L		102	46 - 135
Hexachloroethane	100	71.0		ug/L		71	55 - 120
Indeno[1,2,3-cd]pyrene	100	99.8		ug/L		100	1 - 151
Isophorone	100	91.1		ug/L		91	47 - 180
Naphthalene	100	84.7		ug/L		85	36 - 120
Nitrobenzene	100	89.7		ug/L		90	54 - 158
N-Nitrosodimethylamine	100	53.4		ug/L		53	38 - 120
N-Nitrosodi-n-propylamine	100	96.6		ug/L		97	14 - 198
N-Nitrosodiphenylamine	100	121		ug/L		121	79 - 127
Pentachlorophenol	100	93.6		ug/L		94	38 - 152
Phenanthrene	100	89.3		ug/L		89	65 - 120
Phenol	100	38.9		ug/L		39	17 - 120
Pyrene	100	101		ug/L		101	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*33 - 139*
2-Fluorobiphenyl (Surr)	*85*		*33 - 126*
2-Fluorophenol (Surr)	*55*		*12 - 120*
Nitrobenzene-d5 (Surr)	*94*		*36 - 120*
Phenol-d6 (Surr)	*37*		*10 - 120*
p-Terphenyl-d14 (Surr)	*104*		*47 - 131*

Lab Sample ID: LCSD 570-573496/3-A
Matrix: Water
Analysis Batch: 575651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	100	87.6		ug/L		88	57 - 130	6	30
1,2-Diphenylhydrazine(as Azobenzene)	100	77.3		ug/L		77	57 - 120	3	20
2,4,6-Trichlorophenol	100	97.6		ug/L		98	52 - 129	2	35
2,4-Dichlorophenol	100	93.9		ug/L		94	53 - 122	3	30
2,4-Dimethylphenol	100	64.0		ug/L		64	42 - 120	19	35
2,4-Dinitrophenol	100	111		ug/L		111	1 - 173	2	79
2,4-Dinitrotoluene	100	95.5		ug/L		95	48 - 127	1	25
2,6-Dinitrotoluene	100	96.2		ug/L		96	68 - 137	2	29

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

Lab Sample ID: LCSD 570-573496/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575651
Prep Batch: 573496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	100	86.5		ug/L		87	65 - 120	4	15
2-Chlorophenol	100	88.1		ug/L		88	36 - 120	1	37
2-Nitrophenol	100	104		ug/L		104	45 - 167	2	33
3,3'-Dichlorobenzidine	100	104		ug/L		104	8 - 213	7	65
4,6-Dinitro-2-methylphenol	100	98.0		ug/L		98	53 - 130	5	122
4-Bromophenyl phenyl ether	100	101		ug/L		101	65 - 120	3	26
4-Chloro-3-methylphenol	100	95.2		ug/L		95	41 - 128	3	44
4-Chlorophenyl phenyl ether	100	92.9		ug/L		93	38 - 145	3	36
4-Nitrophenol	100	47.6		ug/L		48	13 - 129	1	79
Acenaphthene	100	83.9		ug/L		84	60 - 132	6	29
Acenaphthylene	100	80.8		ug/L		81	54 - 126	1	45
Anthracene	100	88.4		ug/L		88	43 - 120	4	40
Benzidine	100	14.9	J *-	ug/L		15	20 - 143	3	30
Benzo[a]anthracene	100	90.5		ug/L		90	42 - 133	5	32
Benzo[a]pyrene	100	90.8		ug/L		91	32 - 148	6	43
Benzo[b]fluoranthene	100	95.6		ug/L		96	42 - 140	1	43
Benzo[g,h,i]perylene	100	89.0		ug/L		89	1 - 195	3	61
Benzo[k]fluoranthene	100	87.0		ug/L		87	25 - 146	7	38
Bis (2-chloroethoxy) methane	100	84.3		ug/L		84	49 - 165	3	32
Bis(2-chloroethyl)ether	100	75.4		ug/L		75	43 - 126	2	65
bis (2-chloroisopropyl) ether	100	68.6		ug/L		69	63 - 139	3	46
Bis(2-ethylhexyl) phthalate	100	138	*+	ug/L		138	29 - 137	5	50
Butyl benzyl phthalate	100	127		ug/L		127	1 - 140	4	36
Chrysene	100	81.7		ug/L		82	44 - 140	7	53
Dibenz(a,h)anthracene	100	96.2		ug/L		96	1 - 200	4	75
Diethyl phthalate	100	99.9		ug/L		100	1 - 120	5	60
Dimethyl phthalate	100	92.0		ug/L		92	1 - 120	3	110
Di-n-butyl phthalate	100	107		ug/L		107	8 - 120	4	28
Di-n-octyl phthalate	100	134	*+	ug/L		134	19 - 132	4	42
Fluoranthene	100	86.9		ug/L		87	43 - 121	5	40
Fluorene	100	89.1		ug/L		89	70 - 120	3	23
Hexachloro-1,3-butadiene	100	88.7		ug/L		89	38 - 120	6	38
Hexachlorobenzene	100	83.6		ug/L		84	8 - 142	5	33
Hexachlorocyclopentadiene	100	97.7		ug/L		98	46 - 135	5	20
Hexachloroethane	100	71.3		ug/L		71	55 - 120	0	32
Indeno[1,2,3-cd]pyrene	100	97.5		ug/L		98	1 - 151	2	60
Isophorone	100	87.6		ug/L		88	47 - 180	4	56
Naphthalene	100	82.0		ug/L		82	36 - 120	3	39
Nitrobenzene	100	87.2		ug/L		87	54 - 158	3	37
N-Nitrosodimethylamine	100	53.6		ug/L		54	38 - 120	0	20
N-Nitrosodi-n-propylamine	100	95.0		ug/L		95	14 - 198	2	52
N-Nitrosodiphenylamine	100	112		ug/L		112	79 - 127	8	20
Pentachlorophenol	100	89.5		ug/L		89	38 - 152	5	52
Phenanthrene	100	87.0		ug/L		87	65 - 120	3	24
Phenol	100	39.0		ug/L		39	17 - 120	0	39
Pyrene	100	96.8		ug/L		97	70 - 120	4	30

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

Lab Sample ID: LCSD 570-573496/3-A
Matrix: Water
Analysis Batch: 575651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573496

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*107*		*33 - 139*
2-Fluorobiphenyl (Surr)	*84*		*33 - 126*
2-Fluorophenol (Surr)	*55*		*12 - 120*
Nitrobenzene-d5 (Surr)	*90*		*36 - 120*
Phenol-d6 (Surr)	*37*		*10 - 120*
p-Terphenyl-d14 (Surr)	*103*		*47 - 131*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 570-573671/1-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0067	0.0044	ug/L		05/20/25 17:30	05/29/25 13:08	1
4,4'-DDE	ND		0.0033	0.0019	ug/L		05/20/25 17:30	05/29/25 13:08	1
4,4'-DDT	ND		0.0033	0.0016	ug/L		05/20/25 17:30	05/29/25 13:08	1
Aldrin	ND		0.0033	0.0031	ug/L		05/20/25 17:30	05/29/25 13:08	1
alpha-Chlordane	ND		0.033	0.00083	ug/L		05/20/25 17:30	05/29/25 13:08	1
alpha-BHC	ND		0.0013	0.0012	ug/L		05/20/25 17:30	05/29/25 13:08	1
beta-BHC	ND		0.0050	0.0039	ug/L		05/20/25 17:30	05/29/25 13:08	1
Chlordane	ND		0.033	0.025	ug/L		05/20/25 17:30	05/29/25 13:08	1
delta-BHC	ND		0.0033	0.0020	ug/L		05/20/25 17:30	05/29/25 13:08	1
Dieldrin	ND		0.0033	0.0013	ug/L		05/20/25 17:30	05/29/25 13:08	1
Endosulfan I	ND		0.0013	0.0013	ug/L		05/20/25 17:30	05/29/25 13:08	1
Endosulfan II	ND		0.0067	0.0041	ug/L		05/20/25 17:30	05/29/25 13:08	1
Endosulfan sulfate	ND		0.0033	0.0014	ug/L		05/20/25 17:30	05/29/25 13:08	1
Endrin	ND		0.0033	0.0023	ug/L		05/20/25 17:30	05/29/25 13:08	1
Endrin aldehyde	ND		0.033	0.024	ug/L		05/20/25 17:30	05/29/25 13:08	1
Endrin ketone	ND		0.0033	0.0021	ug/L		05/20/25 17:30	05/29/25 13:08	1
gamma-Chlordane	ND		0.010	0.0087	ug/L		05/20/25 17:30	05/29/25 13:08	1
gamma-BHC (Lindane)	ND		0.0013	0.00066	ug/L		05/20/25 17:30	05/29/25 13:08	1
Heptachlor	ND		0.0013	0.0012	ug/L		05/20/25 17:30	05/29/25 13:08	1
Heptachlor epoxide	ND		0.0067	0.0039	ug/L		05/20/25 17:30	05/29/25 13:08	1
Methoxychlor	ND		0.0067	0.0037	ug/L		05/20/25 17:30	05/29/25 13:08	1
Toxaphene	ND		0.067	0.054	ug/L		05/20/25 17:30	05/29/25 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*59*		*20 - 139*	*05/20/25 17:30*	*05/29/25 13:08*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 154*	*05/20/25 17:30*	*05/29/25 13:08*	*1*

Lab Sample ID: LCS 570-573671/2-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573671

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.0333	0.0272		ug/L		82	31 - 141		
4,4'-DDE			0.0333	0.0231		ug/L		69	30 - 145		

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 570-573671/2-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573671

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDT			0.0333	0.0243		ug/L		73	25 - 160		
Aldrin			0.0333	0.0212		ug/L		64	42 - 140		
alpha-Chlordane			0.0333	0.0222	J	ug/L		66	45 - 140		
alpha-BHC			0.0333	0.0216		ug/L		65	37 - 140		
beta-BHC			0.0333	0.0214		ug/L		64	17 - 147		
delta-BHC			0.0333	0.0158		ug/L		47	19 - 140		
Dieldrin			0.0333	0.0240		ug/L		72	36 - 146		
Endosulfan I			0.0333	0.0226		ug/L		68	45 - 153		
Endosulfan II			0.0333	0.0254		ug/L		76	1 - 202		
Endosulfan sulfate			0.0333	0.0246		ug/L		74	26 - 144		
Endrin			0.0333	0.0222		ug/L		66	30 - 147		
Endrin aldehyde			0.0333	0.0248	J	ug/L		75	50 - 135		
Endrin ketone			0.0333	0.0263		ug/L		79	60 - 140		
gamma-Chlordane			0.0333	0.0226		ug/L		68	45 - 140		
gamma-BHC (Lindane)			0.0333	0.0222		ug/L		67	32 - 140		
Heptachlor			0.0333	0.0201		ug/L		60	34 - 140		
Heptachlor epoxide			0.0333	0.0236		ug/L		71	37 - 142		
Methoxychlor			0.0333	0.0247		ug/L		74	50 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*72*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 154*

Lab Sample ID: LCS 570-573671/6-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573671

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*57*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*57*		*20 - 154*

Lab Sample ID: LCS 570-573671/8-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573671

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*68*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*89*		*20 - 154*

Lab Sample ID: LCSD 570-573671/3-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573671

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.0333	0.0245		ug/L		73	31 - 141	11	39
4,4'-DDE			0.0333	0.0216		ug/L		65	30 - 145	7	35
4,4'-DDT			0.0333	0.0224		ug/L		67	25 - 160	8	42
Aldrin			0.0333	0.0188		ug/L		56	42 - 140	12	35

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCSD 570-573671/3-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573671

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-Chlordane			0.0333	0.0201	J	ug/L		60	45 - 140	10	35
alpha-BHC			0.0333	0.0198		ug/L		59	37 - 140	8	36
beta-BHC			0.0333	0.0207		ug/L		62	17 - 147	4	44
delta-BHC			0.0333	0.0143		ug/L		43	19 - 140	10	52
Dieldrin			0.0333	0.0221		ug/L		66	36 - 146	8	49
Endosulfan I			0.0333	0.0201		ug/L		60	45 - 153	12	28
Endosulfan II			0.0333	0.0233		ug/L		70	1 - 202	9	53
Endosulfan sulfate			0.0333	0.0228		ug/L		68	26 - 144	8	38
Endrin			0.0333	0.0201		ug/L		60	30 - 147	10	48
Endrin aldehyde			0.0333	ND		ug/L		67	50 - 135	11	25
Endrin ketone			0.0333	0.0242		ug/L		73	60 - 140	8	30
gamma-Chlordane			0.0333	0.0206		ug/L		62	45 - 140	9	35
gamma-BHC (Lindane)			0.0333	0.0199		ug/L		60	32 - 140	11	39
Heptachlor			0.0333	0.0176		ug/L		53	34 - 140	13	43
Heptachlor epoxide			0.0333	0.0212		ug/L		64	37 - 142	11	26
Methoxychlor			0.0333	0.0224		ug/L		67	50 - 135	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*63*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 154*

Lab Sample ID: LCSD 570-573671/7-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573671

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*60*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*59*		*20 - 154*

Lab Sample ID: LCSD 570-573671/9-A
Matrix: Water
Analysis Batch: 576810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573671

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*56*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*76*		*20 - 154*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 570-573671/1-A
Matrix: Water
Analysis Batch: 575083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.067	0.043	ug/L		05/20/25 17:30	05/23/25 13:01	1
Aroclor-1221	ND		0.067	0.043	ug/L		05/20/25 17:30	05/23/25 13:01	1
Aroclor-1232	ND		0.067	0.043	ug/L		05/20/25 17:30	05/23/25 13:01	1
Aroclor-1242	ND		0.067	0.043	ug/L		05/20/25 17:30	05/23/25 13:01	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 570-573671/1-A
Matrix: Water
Analysis Batch: 575083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	ND		0.067	0.043	ug/L		05/20/25 17:30	05/23/25 13:01	1
Aroclor-1254	ND		0.067	0.052	ug/L		05/20/25 17:30	05/23/25 13:01	1
Aroclor-1260	ND		0.067	0.052	ug/L		05/20/25 17:30	05/23/25 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*65*		*20 - 139*	*05/20/25 17:30*	*05/23/25 13:01*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*20 - 154*	*05/20/25 17:30*	*05/23/25 13:01*	*1*

Lab Sample ID: LCS 570-573671/4-A
Matrix: Water
Analysis Batch: 575083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573671

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			0.133	0.0975		ug/L		73	50 - 140		
Aroclor-1260			0.133	0.126		ug/L		94	8 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*59*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*80*		*20 - 154*

Lab Sample ID: LCSD 570-573671/5-A
Matrix: Water
Analysis Batch: 575083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573671

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			0.133	0.122		ug/L		91	50 - 140	22	36
Aroclor-1260			0.133	0.157		ug/L		118	8 - 140	22	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*74*		*20 - 139*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 154*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-572798/1-A
Matrix: Water
Analysis Batch: 573170

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 572798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.10	0.015	mg/L		05/19/25 07:11	05/19/25 14:04	1
Arsenic	ND		0.10	0.0097	mg/L		05/19/25 07:11	05/19/25 14:04	1
Chromium	ND		0.050	0.0030	mg/L		05/19/25 07:11	05/19/25 14:04	1
Copper	ND		0.050	0.0016	mg/L		05/19/25 07:11	05/19/25 14:04	1
Lead	ND		0.050	0.0060	mg/L		05/19/25 07:11	05/19/25 14:04	1
Nickel	ND		0.050	0.0015	mg/L		05/19/25 07:11	05/19/25 14:04	1
Selenium	ND		0.10	0.012	mg/L		05/19/25 07:11	05/19/25 14:04	1
Silver	ND		0.010	0.0034	mg/L		05/19/25 07:11	05/19/25 14:04	1
Thallium	ND		0.050	0.0086	mg/L		05/19/25 07:11	05/19/25 14:04	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 570-572798/1-A
Matrix: Water
Analysis Batch: 573170

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 572798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.25	0.0046	mg/L		05/19/25 07:11	05/19/25 14:04	1

Lab Sample ID: LCS 570-572798/2-A
Matrix: Water
Analysis Batch: 573170

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 572798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.563	^1+	mg/L		113	85 - 115
Arsenic	0.500	0.525		mg/L		105	85 - 115
Chromium	0.500	0.538		mg/L		108	85 - 115
Copper	0.500	0.531		mg/L		106	85 - 115
Lead	0.500	0.538		mg/L		108	85 - 115
Nickel	0.500	0.543		mg/L		109	85 - 115
Selenium	0.500	0.538		mg/L		108	85 - 115
Silver	0.250	0.265		mg/L		106	85 - 115
Thallium	0.500	0.555		mg/L		111	85 - 115
Zinc	0.500	0.541		mg/L		108	85 - 115

Lab Sample ID: LCSD 570-572798/3-A
Matrix: Water
Analysis Batch: 573170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 572798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.553	^1+	mg/L		111	85 - 115	2	20
Arsenic	0.500	0.514		mg/L		103	85 - 115	2	20
Chromium	0.500	0.528		mg/L		106	85 - 115	2	20
Copper	0.500	0.522		mg/L		104	85 - 115	2	20
Lead	0.500	0.528		mg/L		106	85 - 115	2	20
Nickel	0.500	0.534		mg/L		107	85 - 115	2	20
Selenium	0.500	0.531		mg/L		106	85 - 115	1	20
Silver	0.250	0.260		mg/L		104	85 - 115	2	20
Thallium	0.500	0.546		mg/L		109	85 - 115	2	20
Zinc	0.500	0.533		mg/L		107	85 - 115	2	20

Lab Sample ID: 570-230873-1 MS
Matrix: Water
Analysis Batch: 573170

Client Sample ID: Meadowlark Influent Comp
Prep Type: Total Recoverable
Prep Batch: 572798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	^1+	0.500	0.560	^1+	mg/L		112	80 - 120
Arsenic	ND		0.500	0.531		mg/L		106	80 - 120
Chromium	ND		0.500	0.528		mg/L		106	80 - 120
Copper	0.11		0.500	0.658		mg/L		110	80 - 120
Lead	ND		0.500	0.512		mg/L		102	80 - 120
Nickel	0.0027	J	0.500	0.521		mg/L		104	80 - 120
Selenium	ND		0.500	0.524		mg/L		105	80 - 120
Silver	ND		0.250	0.257		mg/L		103	80 - 120
Thallium	ND		0.500	0.524		mg/L		105	80 - 120
Zinc	0.20	J	0.500	0.730		mg/L		107	80 - 120

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-230873-F-1-C MSD
Client Sample ID: 570-230873-F-1-C MSD
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 573170
Prep Batch: 572798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	^1+	0.500	0.565	^1+	mg/L		113	80 - 120	1	20
Arsenic	ND		0.500	0.537		mg/L		107	80 - 120	1	20
Chromium	ND		0.500	0.525		mg/L		105	80 - 120	1	20
Copper	0.11		0.500	0.655		mg/L		109	80 - 120	0	20
Lead	ND		0.500	0.508		mg/L		102	80 - 120	1	20
Nickel	0.0027	J	0.500	0.520		mg/L		103	80 - 120	0	20
Selenium	ND		0.500	0.524		mg/L		105	80 - 120	0	20
Silver	ND		0.250	0.255		mg/L		102	80 - 120	1	20
Thallium	ND		0.500	0.522		mg/L		104	80 - 120	0	20
Zinc	0.20	J	0.500	0.725		mg/L		106	80 - 120	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-573281/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 573568
Prep Batch: 573281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.26	ug/L		05/20/25 06:05	05/20/25 11:55	1
Cadmium	ND		1.0	0.13	ug/L		05/20/25 06:05	05/20/25 11:55	1

Lab Sample ID: LCS 570-573281/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 573568
Prep Batch: 573281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	80.0	84.5		ug/L		106	85 - 115
Cadmium	80.0	80.0		ug/L		100	85 - 115

Lab Sample ID: LCSD 570-573281/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 573568
Prep Batch: 573281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	80.0	88.9		ug/L		111	85 - 115	5	20
Cadmium	80.0	84.7		ug/L		106	85 - 115	6	20

Lab Sample ID: 550-232081-A-10-B MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 573568
Prep Batch: 573281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		80.0	87.2		ug/L		109	80 - 120
Cadmium	ND		80.0	82.8		ug/L		103	80 - 120

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

Lab Sample ID: 550-232081-A-10-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 573568 — **Prep Batch: 573281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	ND		80.0	83.9		ug/L		105	80 - 120	4	20
Cadmium	ND		80.0	80.8		ug/L		101	80 - 120	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-573508/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 574037 — **Prep Batch: 573508**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/20/25 12:07	05/21/25 10:21	1

Lab Sample ID: LCS 570-573508/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 574037 — **Prep Batch: 573508**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.00732		mg/L		92	85 - 115

Lab Sample ID: LCSD 570-573508/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 574037 — **Prep Batch: 573508**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.00769		mg/L		96	85 - 115	5	10

Lab Sample ID: 570-230870-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 574037 — **Prep Batch: 573508**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00800	0.00745		mg/L		93	85 - 115

Lab Sample ID: 570-230870-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 574037 — **Prep Batch: 573508**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00750		mg/L		94	85 - 115	1	10

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

Lab Sample ID: MB 570-573691/11 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 573691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		5.0	2.7	ug/L			05/20/25 13:59	1

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

Lab Sample ID: LCS 570-573691/12
Matrix: Water
Analysis Batch: 573691

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	255		ug/L		102	90 - 110		

Lab Sample ID: LCSD 570-573691/13
Matrix: Water
Analysis Batch: 573691

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	273		ug/L		109	90 - 110	7	20

Lab Sample ID: MRL 570-573691/10
Matrix: Water
Analysis Batch: 573691

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	4.65	J	ug/L		93	50 - 150		

Lab Sample ID: 570-230928-A-2 MS
Matrix: Water
Analysis Batch: 573691

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	278		ug/L		111	70 - 130		

Lab Sample ID: 570-230928-A-2 MSD
Matrix: Water
Analysis Batch: 573691

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	295		ug/L		118	70 - 130	6	30

GC/MS VOA

Analysis Batch: 572234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-2	Meadowlark Influent Grab	Total/NA	Water	624.1	
MB 570-572234/8	Method Blank	Total/NA	Water	624.1	
LCS 570-572234/1003	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-572234/4	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 573496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	625.1	
MB 570-573496/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-573496/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-573496/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 575651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-573496/1-A	Method Blank	Total/NA	Water	625.1	573496
LCS 570-573496/2-A	Lab Control Sample	Total/NA	Water	625.1	573496
LCSD 570-573496/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	573496

Analysis Batch: 575929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	625.1	573496

Analysis Batch: 576419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	625.1	573496

GC Semi VOA

Prep Batch: 573671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	608	
MB 570-573671/1-A	Method Blank	Total/NA	Water	608	
LCS 570-573671/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 570-573671/4-A	Lab Control Sample	Total/NA	Water	608	
LCS 570-573671/6-A	Lab Control Sample	Total/NA	Water	608	
LCS 570-573671/8-A	Lab Control Sample	Total/NA	Water	608	
LCSD 570-573671/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 570-573671/5-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 570-573671/7-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 570-573671/9-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 575083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-573671/1-A	Method Blank	Total/NA	Water	608.3	573671
LCS 570-573671/4-A	Lab Control Sample	Total/NA	Water	608.3	573671
LCSD 570-573671/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	573671

Analysis Batch: 575224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	608.3	573671

GC Semi VOA

Analysis Batch: 576810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	608.3	573671
MB 570-573671/1-A	Method Blank	Total/NA	Water	608.3	573671
LCS 570-573671/2-A	Lab Control Sample	Total/NA	Water	608.3	573671
LCS 570-573671/6-A	Lab Control Sample	Total/NA	Water	608.3	573671
LCS 570-573671/8-A	Lab Control Sample	Total/NA	Water	608.3	573671
LCSD 570-573671/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	573671
LCSD 570-573671/7-A	Lab Control Sample Dup	Total/NA	Water	608.3	573671
LCSD 570-573671/9-A	Lab Control Sample Dup	Total/NA	Water	608.3	573671

Metals

Prep Batch: 572798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total Recoverable	Water	200.7	
MB 570-572798/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-572798/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-572798/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-230873-1 MS	Meadowlark Influent Comp	Total Recoverable	Water	200.7	
570-230873-F-1-C MSD	570-230873-F-1-C MSD	Total Recoverable	Water	200.7	

Analysis Batch: 573170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total Recoverable	Water	200.7 Rev 4.4	572798
MB 570-572798/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	572798
LCS 570-572798/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	572798
LCSD 570-572798/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	572798
570-230873-1 MS	Meadowlark Influent Comp	Total Recoverable	Water	200.7 Rev 4.4	572798
570-230873-F-1-C MSD	570-230873-F-1-C MSD	Total Recoverable	Water	200.7 Rev 4.4	572798

Prep Batch: 573281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total Recoverable	Water	200.8	
MB 570-573281/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-573281/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-573281/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
550-232081-A-10-B MS	Matrix Spike	Total Recoverable	Water	200.8	
550-232081-A-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Prep Batch: 573508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	245.1	
MB 570-573508/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-573508/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-573508/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-230870-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	
570-230870-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 573568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total Recoverable	Water	200.8	573281
MB 570-573281/1-A	Method Blank	Total Recoverable	Water	200.8	573281

Metals (Continued)

Analysis Batch: 573568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-573281/2-A	Lab Control Sample	Total Recoverable	Water	200.8	573281
LCSD 570-573281/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	573281
550-232081-A-10-B MS	Matrix Spike	Total Recoverable	Water	200.8	573281
550-232081-A-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	573281

Analysis Batch: 574037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	245.1	573508
MB 570-573508/1-A	Method Blank	Total/NA	Water	245.1	573508
LCS 570-573508/2-A	Lab Control Sample	Total/NA	Water	245.1	573508
LCSD 570-573508/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	573508
570-230870-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	573508
570-230870-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	573508

General Chemistry

Analysis Batch: 573691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-230873-1	Meadowlark Influent Comp	Total/NA	Water	Kelada 01	
MB 570-573691/11	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-573691/12	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-573691/13	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-573691/10	Lab Control Sample	Total/NA	Water	Kelada 01	
570-230928-A-2 MS	Matrix Spike	Total/NA	Water	Kelada 01	
570-230928-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Client Sample ID: Meadowlark Influent Comp
Lab Sample ID: 570-230873-1

Date Collected: 05/15/25 07:00
Matrix: Water
Date Received: 05/15/25 16:40

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			993.9 mL	2 mL	573496	05/20/25 11:49	OAJ3	EET CAL 4
Total/NA	Analysis	625.1		5	1 mL	1 mL	576419	05/28/25 14:37	AX7Z	EET CAL 4
	Instrument ID: GCMS83									
Total/NA	Prep	625.1			993.9 mL	2 mL	573496	05/20/25 11:49	OAJ3	EET CAL 4
Total/NA	Analysis	625.1		5	1 mL	1 mL	575929	05/27/25 21:31	AX7Z	EET CAL 4
	Instrument ID: GCMSCCC									
Total/NA	Prep	608			1050.8 mL	1 mL	573671	05/20/25 17:31	TR8L	EET CAL 4
Total/NA	Analysis	608.3		1	1 mL	1 mL	576810	05/29/25 17:08	N5Y3	EET CAL 4
	Instrument ID: GC52A									
Total/NA	Prep	608			1050.8 mL	1 mL	573671	05/20/25 17:31	TR8L	EET CAL 4
Total/NA	Analysis	608.3		1	1 mL	1 mL	575224	05/23/25 15:30	P2HW	EET CAL 4
	Instrument ID: GC58									
Total Recoverable	Prep	200.7			50 mL	50 mL	572798	05/19/25 07:11	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			573170	05/19/25 14:11	P1R	EET CAL 4
	Instrument ID: ICP10									
Total Recoverable	Prep	200.8			50 mL	50 mL	573281	05/20/25 06:05	JP8N	EET CAL 4
Total Recoverable	Analysis	200.8		1			573568	05/20/25 13:15	C0YH	EET CAL 4
	Instrument ID: ICPMS09									
Total/NA	Prep	245.1			25 mL	50 mL	573508	05/20/25 12:07	JP8N	EET CAL 4
Total/NA	Analysis	245.1		1			574037	05/21/25 10:54	RL6Q	EET CAL 4
	Instrument ID: HG9									
Total/NA	Analysis	Kelada 01		1	8 mL	8 mL	573691	05/20/25 17:00	GG0B	EET CAL 4
	Instrument ID: LACHAT01									

Client Sample ID: Meadowlark Influent Grab
Lab Sample ID: 570-230873-2

Date Collected: 05/15/25 08:44
Matrix: Water
Date Received: 05/15/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	572234	05/17/25 01:19	PT	EET CAL 4
	Instrument ID: GCMSXX									

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
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
608.3	608	Water	alpha-Chlordane
608.3	608	Water	Endrin ketone
608.3	608	Water	gamma-Chlordane
624.1		Water	cis-1,2-Dichloroethene
624.1		Water	Dichlorodifluoromethane
624.1		Water	Methyl-t-Butyl Ether (MTBE)
624.1		Water	Xylenes, Total

Oregon	NELAP	4175	02-02-26

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
608.3	Organochlorine Pesticides in Water	EPA	EET CAL 4
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CAL 4
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
608	Liquid-Liquid Extraction (Separatory Funnel)	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
Job ID: 570-230873-1
Project/Site: 2025 Annual Meadowlark Influent Priority Pollutant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-230873-1	Meadowlark Influent Comp	Water	05/15/25 07:00	05/15/25 16:40
570-230873-2	Meadowlark Influent Grab	Water	05/15/25 08:44	05/15/25 16:40

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Environment Testing America

230873

Client Information	Sampler: AS	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No: 230873
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority				Job #:
Address: 6200 Avenida Encinas	Due Date Requested:			
City: Carlsbad	TAT Requested (days): 10 Working Days			
State, Zip: California, 92011				
Phone: 760-268-8801	PO #: 20250732			
Email: rachael@encinajpa.com	WO #:			
Project Name: 2025 Annual Meadowlark Influent Priority Pollutant Scan	Project #:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	EPA 608.3 Pesticides & PCB's	EPA 625	EPA 624	Acrolein & Acrylonitrile	EPA 200.7 Sb, As, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn	EPA 200.8 Cd, Be	Total Number of containers	Special Instructions/Note:
1 Meadowlark Influent	5/14-15/2025	0700-0700	C	WW			X								1	D *Do not dilute*
1 Meadowlark Influent	5/14-15/2025	0700-0700	C	WW				X							1	B
1 Meadowlark Influent	5/14-15/2025	0700-0700	C	WW					X						1	I
1 Meadowlark Influent	5/14-15/2025	0700-0700	C	WW						X					2	I
2 Meadowlark Influent	~~5/14-15/2025~~ 5/15/25	0814	G	WW							X				3	A
2 Meadowlark Influent	~~5/14-15/2025~~ 5/15/25	0814	G	WW								X			3	I
1 Meadowlark Influent	5/14-15/2025	0700-0700	C	WW									X		1	D *Do not dilute*

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/15/25 1129	EWA		5-15-25 1129	EC
2		5-15-25 1640	EC		5/15/25 1640	EC
3						

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

Cooler Temperature(s) °C and Other Remarks: SC11 2.4/2.9

QFG3

5/29/2025

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-230873-1

Login Number: 230873

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

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