eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 1/7/2026 11:54:21 AM

JOB DESCRIPTION

RED-HILL
Weekly: Ka'amilo Wells Pump 1

JOB NUMBER

380-188299-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

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 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 Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW,Water matrices)

Authorization

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Authorized for release by
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Table of Contents

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated 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.

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
380-188299-1

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 12/17/2025 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

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

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

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

Detection Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1 — Lab Sample ID: 380-188299-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.065		0.0098		ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		0.0098		ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 1 — Lab Sample ID: 380-188299-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pomona

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1
Date Collected: 12/15/25 12:14
Date Received: 12/17/25 10:30

Lab Sample ID: 380-188299-1
Matrix: Water

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
2,4'-DDD	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
2,4'-DDE	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
2,4'-DDT	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
2-Methylnaphthalene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
4,4'-DDD	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
4,4'-DDE	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
4,4'-DDT	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Acenaphthene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Acenaphthylene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Acetochlor	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Alachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
alpha-BHC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
alpha-Chlordane	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Anthracene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 14:27	1
Atrazine	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Benz(a)anthracene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Benzo[a]pyrene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 14:27	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 14:27	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 14:27	1
beta-BHC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		12/17/25 15:48	12/18/25 14:27	1
Bromacil	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Butachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Butylbenzylphthalate	<0.49		0.49		ug/L		12/17/25 15:48	12/18/25 14:27	1
Chlorobenzilate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Chloroneb	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Chlorpyrifos	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Chrysene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 14:27	1
delta-BHC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		12/17/25 15:48	12/18/25 14:27	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Dieldrin	**0.065**		0.0098		ug/L		12/17/25 15:48	12/23/25 12:25	1
Diethylphthalate	<0.49		0.49		ug/L		12/17/25 15:48	12/18/25 14:27	1
Dimethylphthalate	<0.49		0.49		ug/L		12/17/25 15:48	12/18/25 14:27	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		12/17/25 15:48	12/18/25 14:27	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Endosulfan sulfate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Endrin	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Endrin aldehyde	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
EPTC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Fluoranthene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1
Date Collected: 12/15/25 12:14
Date Received: 12/17/25 10:30

Lab Sample ID: 380-188299-1
Matrix: Water

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
gamma-Chlordane	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Heptachlor	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Heptachlor epoxide (isomer B)	**0.014**		0.0098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Hexachlorobenzene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Isophorone	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Lindane	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Malathion	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Methoxychlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Metolachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Molinate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Naphthalene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Parathion	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Phenanthrene	<0.039		0.039		ug/L		12/17/25 15:48	12/18/25 14:27	1
Propachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Pyrene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Simazine	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Terbacil	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Terbuthylazine	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Thiobencarb	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		12/17/25 15:48	12/18/25 14:27	1
trans-Nonachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 14:27	1
Trifluralin	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 14:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.62*	*T J*	*ug/L*		*2.56*	*N/A*	*12/17/25 15:48*	*12/18/25 14:27*	*1*
Unknown	*0.59*	*T J*	*ug/L*		*2.56*	*N/A*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Unknown	*0.61*	*T J*	*ug/L*		*2.75*	*N/A*	*12/17/25 15:48*	*12/18/25 14:27*	*1*
Unknown	*0.70*	*T J*	*ug/L*		*2.75*	*N/A*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Unknown	*0.56*	*T J*	*ug/L*		*3.00*	*N/A*	*12/17/25 15:48*	*12/18/25 14:27*	*1*
Bacchotricuneatin c	*1.1*	*T J N*	*ug/L*		*3.02*	*66563-30-2*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Undecane	*2.8*	*T J N*	*ug/L*		*3.15*	*1120-21-4*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Ethyl 3-acetoxybutyrate	*0.81*	*T J N*	*ug/L*		*3.18*	*27846-49-7*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Cyclohexasiloxane, dodecamethyl-	*0.77*	*T J N*	*ug/L*		*3.91*	*540-97-6*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
13-Docosenamide, (Z)-	*0.66*	*T J N*	*ug/L*		*10.55*	*112-84-5*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Unknown	*0.57*	*T J*	*ug/L*		*15.16*	*N/A*	*12/17/25 15:48*	*12/23/25 12:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*96*		*70 - 130*	*12/17/25 15:48*	*12/18/25 14:27*	*1*
2-Nitro-m-xylene	*96*		*70 - 130*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Perylene-d12	*81*		*70 - 130*	*12/17/25 15:48*	*12/18/25 14:27*	*1*
Perylene-d12	*75*		*70 - 130*	*12/17/25 15:48*	*12/23/25 12:25*	*1*
Triphenylphosphate	*109*		*70 - 130*	*12/17/25 15:48*	*12/18/25 14:27*	*1*
Triphenylphosphate	*105*		*70 - 130*	*12/17/25 15:48*	*12/23/25 12:25*	*1*

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1

Date Collected: 12/15/25 12:14
Date Received: 12/17/25 10:30

Lab Sample ID: 380-188299-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
2-Methylnaphthalene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Acenaphthene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Acenaphthylene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Anthracene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Benzo[a]anthracene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Benzo[a]pyrene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Chrysene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Fluoranthene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Fluorene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Naphthalene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Phenanthrene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1
Pyrene	<0.19		0.19		ug/L		12/17/25 22:00	12/26/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*28 - 127*	*12/17/25 22:00*	*12/26/25 13:35*	*1*
2-Fluorobiphenyl (Surr)	*88*		*31 - 120*	*12/17/25 22:00*	*12/26/25 13:35*	*1*
2-Fluorophenol (Surr)	*59*		*17 - 120*	*12/17/25 22:00*	*12/26/25 13:35*	*1*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*	*12/17/25 22:00*	*12/26/25 13:35*	*1*
Phenol-d6 (Surr)	*38*		*10 - 120*	*12/17/25 22:00*	*12/26/25 13:35*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 120*	*12/17/25 22:00*	*12/26/25 13:35*	*1*

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

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*12/17/25 22:00*	*12/29/25 16:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*33 - 139*	*12/17/25 22:00*	*12/29/25 16:45*	*1*
2-Fluorobiphenyl (Surr)	*90*		*33 - 126*	*12/17/25 22:00*	*12/29/25 16:45*	*1*
2-Fluorophenol (Surr)	*67*		*12 - 120*	*12/17/25 22:00*	*12/29/25 16:45*	*1*
Nitrobenzene-d5 (Surr)	*106*		*36 - 120*	*12/17/25 22:00*	*12/29/25 16:45*	*1*
Phenol-d6 (Surr)	*38*		*10 - 120*	*12/17/25 22:00*	*12/29/25 16:45*	*1*
p-Terphenyl-d14 (Surr)	*90*		*47 - 131*	*12/17/25 22:00*	*12/29/25 16:45*	*1*

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			12/27/25 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*38 - 134*		*12/27/25 19:51*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26		ug/L		12/18/25 08:24	01/06/26 23:39	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		12/18/25 08:24	01/06/26 23:39	1

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-188299-1

Date Collected: 12/15/25 12:14
Matrix: Water
Date Received: 12/17/25 10:30

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level - RA (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<26		26		ug/L		12/18/25 08:24	01/06/26 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*110*		*60 - 130*	*12/18/25 08:24*	*01/06/26 23:39*	*1*

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-188299-2

Date Collected: 12/15/25 12:14
Matrix: Water
Date Received: 12/17/25 10:30

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			12/27/25 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*38 - 134*		*12/27/25 17:18*	*1*

Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-188299-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)								
		2NMX	PRY	TPP						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
380-188296-I-1-A MS	Matrix Spike	100	97	116						
380-188296-I-1-A MS	Matrix Spike	99	97	109						
380-188299-1	Ka'amilo Wells Pump 1	96	81	109						
380-188299-1	Ka'amilo Wells Pump 1	96	75	105						
380-188299-1 DU	Ka'amilo Wells Pump 1	98	93	110						
380-188299-1 DU	Ka'amilo Wells Pump 1	96	92	106						
LCS 380-193113/23-A	Lab Control Sample	96	97	110						
MB 380-193113/21-A	Method Blank	97	88	110						
MRL 380-193113/22-A	Lab Control Sample	96	85	110						
MRL 380-193113/22-A	Lab Control Sample	94	77	104						

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene-d12
TPP = Triphenylphosphate

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)		
380-188299-1	Ka'amilo Wells Pump 1	85	90	67	106	38	90		
MB 570-671320/1-A	Method Blank	71	81	58	83	32	82		

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)		
380-188299-1	Ka'amilo Wells Pump 1	95	88	59	88	38	86		
LCS 570-671320/2-A	Lab Control Sample	75	73	58	63	38	77		
LCSD 570-671320/3-A	Lab Control Sample Dup	84	85	63	71	41	83		
MB 570-671320/1-A	Method Blank	84	78	52	76	33	73		

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)

Surrogate Summary

Client: City & County of Honolulu
Job ID: 380-188299-1
Project/Site: RED-HILL
SDG: Weekly: Ka'amilo Wells Pump 1

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(38-134)
380-188299-1	Ka'amilo Wells Pump 1	106
380-188299-2	TB: Ka'amilo Wells Pump 1	104
380-188308-C-1 MS	Matrix Spike	104
380-188308-C-1 MSD	Matrix Spike Duplicate	95
LCS 570-675780/1010	Lab Control Sample	101
LCSD 570-675780/11	Lab Control Sample Dup	98
MB 570-675780/12	Method Blank	100
MRL 570-675780/1005	Lab Control Sample	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-130)
380-188299-1 - RA	Ka'amilo Wells Pump 1	110
380-188308-B-1-A MS	Matrix Spike	129
380-188308-B-1-B MSD	Matrix Spike Duplicate	121
LCS 570-671434/2-A	Lab Control Sample	105
LCSD 570-671434/3-A	Lab Control Sample Dup	99
MB 570-671434/1-A	Method Blank	109
MRL 570-671434/4-A	Lab Control Sample	111

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-193113/21-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193113

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4'-DDD	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4'-DDE	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4'-DDT	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
2-Methylnaphthalene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
4,4'-DDD	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
4,4'-DDE	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
4,4'-DDT	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Acenaphthene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Acenaphthylene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Acetochlor	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Alachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
alpha-BHC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
alpha-Chlordane	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Anthracene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 12:46	1
Atrazine	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Benz(a)anthracene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[a]pyrene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 12:46	1
beta-BHC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		12/17/25 15:48	12/18/25 12:46	1
Bromacil	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Butachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Butylbenzylphthalate	<0.49		0.49		ug/L		12/17/25 15:48	12/18/25 12:46	1
Chlorobenzilate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Chloroneb	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Chlorpyrifos	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Chrysene	<0.020		0.020		ug/L		12/17/25 15:48	12/18/25 12:46	1
delta-BHC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		12/17/25 15:48	12/18/25 12:46	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Dieldrin	<0.0098	^3+	0.0098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Diethylphthalate	<0.49		0.49		ug/L		12/17/25 15:48	12/18/25 12:46	1
Dimethylphthalate	<0.49		0.49		ug/L		12/17/25 15:48	12/18/25 12:46	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		12/17/25 15:48	12/18/25 12:46	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Endosulfan sulfate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Endrin	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Endrin aldehyde	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
EPTC	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-193113/21-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193113

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Fluorene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
gamma-Chlordane	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Heptachlor	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Hexachlorobenzene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Isophorone	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Lindane	<0.0098		0.0098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Malathion	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Methoxychlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Metolachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Molinate	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Naphthalene	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Parathion	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Phenanthrene	<0.039		0.039		ug/L		12/17/25 15:48	12/18/25 12:46	1
Propachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Pyrene	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Simazine	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Terbacil	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Terbuthylazine	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Thiobencarb	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		12/17/25 15:48	12/18/25 12:46	1
trans-Nonachlor	<0.049		0.049		ug/L		12/17/25 15:48	12/18/25 12:46	1
Trifluralin	<0.098		0.098		ug/L		12/17/25 15:48	12/18/25 12:46	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentene, 1,2,3,4,5-pentamethyl-	*1.04*	*T J N*	*ug/L*		*2.56*	*1000154-28-6*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Unknown	*0.802*	*T J*	*ug/L*		*3.02*	*N/A*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Undecane	*2.44*	*T J N*	*ug/L*		*3.16*	*1120-21-4*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Plumbane, diethyldimethyl-	*0.632*	*T J N*	*ug/L*		*3.29*	*1762-27-2*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Unknown	*1.47*	*T J*	*ug/L*		*3.91*	*N/A*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Unknown	*0.600*	*T J*	*ug/L*		*4.55*	*N/A*	*12/17/25 15:48*	*12/18/25 12:46*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*97*		*70 - 130*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Perylene-d12	*88*		*70 - 130*	*12/17/25 15:48*	*12/18/25 12:46*	*1*
Triphenylphosphate	*110*		*70 - 130*	*12/17/25 15:48*	*12/18/25 12:46*	*1*

Lab Sample ID: LCS 380-193113/23-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			1.96	1.92		ug/L		98	70 - 130		

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-193113/23-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.96	1.96		ug/L		100	70 - 130
2,4'-DDE	1.96	2.11		ug/L		107	70 - 130
2,4'-DDT	1.96	1.84		ug/L		94	70 - 130
2,4-Dinitrotoluene	1.96	1.68		ug/L		86	70 - 130
2,6-Dinitrotoluene	1.96	1.83		ug/L		93	70 - 130
2-Methylnaphthalene	1.96	1.96		ug/L		100	70 - 130
4,4'-DDD	1.96	1.92		ug/L		98	70 - 130
4,4'-DDE	1.96	2.10		ug/L		107	70 - 130
4,4'-DDT	1.96	1.95		ug/L		99	70 - 130
Acenaphthene	1.96	1.99		ug/L		101	70 - 130
Acenaphthylene	1.96	2.08		ug/L		106	70 - 130
Acetochlor	1.96	1.92		ug/L		98	70 - 130
Alachlor	1.96	1.90		ug/L		97	70 - 130
alpha-BHC	1.96	2.15		ug/L		110	70 - 130
alpha-Chlordane	1.96	2.03		ug/L		103	70 - 130
Anthracene	1.96	2.08		ug/L		106	70 - 130
Atrazine	1.96	1.98		ug/L		101	70 - 130
Benz(a)anthracene	1.96	2.23		ug/L		114	70 - 130
Benzo[a]pyrene	1.96	2.17		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.96	2.12		ug/L		108	70 - 130
Benzo[g,h,i]perylene	1.96	1.92		ug/L		98	70 - 130
Benzo[k]fluoranthene	1.96	2.01		ug/L		102	70 - 130
beta-BHC	1.96	2.11		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.95		ug/L		99	70 - 130
Bromacil	1.96	1.57		ug/L		80	70 - 130
Butachlor	1.96	1.97		ug/L		100	70 - 130
Butylbenzylphthalate	1.96	2.28		ug/L		116	70 - 130
Chlorobenzilate	1.96	1.94		ug/L		99	70 - 130
Chloroneb	1.96	2.09		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	1.96		ug/L		100	70 - 130
Chlorpyrifos	1.96	2.01		ug/L		102	70 - 130
Chrysene	1.96	2.08		ug/L		106	70 - 130
delta-BHC	1.96	2.06		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.11		ug/L		108	70 - 130
Dibenz(a,h)anthracene	1.96	1.96		ug/L		100	70 - 130
Diclorvos (DDVP)	1.96	1.92		ug/L		98	70 - 130
Dieldrin	1.96	1.91		ug/L		97	70 - 130
Diethylphthalate	1.96	2.27		ug/L		115	70 - 130
Dimethylphthalate	1.96	2.06		ug/L		105	70 - 130
Di-n-butyl phthalate	3.93	4.15		ug/L		106	70 - 130
Di-n-octyl phthalate	1.96	1.87		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.96	2.10		ug/L		107	70 - 130
Endosulfan II (Beta)	1.96	1.95		ug/L		99	70 - 130
Endosulfan sulfate	1.96	1.85		ug/L		94	70 - 130
Endrin	1.96	2.10		ug/L		107	70 - 130
Endrin aldehyde	1.96	2.06		ug/L		105	60 - 130
EPTC	1.96	2.18		ug/L		111	70 - 130
Fluoranthene	1.96	2.01		ug/L		103	70 - 130
Fluorene	1.96	2.14		ug/L		109	70 - 130

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-193113/23-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.96	2.06		ug/L		105	70 - 130
Heptachlor	1.96	1.84		ug/L		94	70 - 130
Heptachlor epoxide (isomer B)	1.96	2.24		ug/L		114	70 - 130
Hexachlorobenzene	1.96	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.96	1.80		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.08		ug/L		106	70 - 130
Isophorone	1.96	1.90		ug/L		97	70 - 130
Lindane	1.96	2.26		ug/L		115	70 - 130
Malathion	1.96	1.92		ug/L		98	70 - 130
Methoxychlor	1.96	2.01		ug/L		102	70 - 130
Metolachlor	1.96	1.97		ug/L		100	70 - 130
Molinate	1.96	2.06		ug/L		105	70 - 130
Naphthalene	1.96	1.88		ug/L		96	70 - 130
Parathion	1.96	1.95		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	1.96	1.82		ug/L		93	70 - 130
Phenanthrene	1.96	1.97		ug/L		100	70 - 130
Propachlor	1.96	2.13		ug/L		108	70 - 130
Pyrene	1.96	2.03		ug/L		103	70 - 130
Simazine	1.96	1.81		ug/L		92	70 - 130
Terbacil	1.96	1.79		ug/L		91	70 - 130
Terbuthylazine	1.96	2.05		ug/L		105	70 - 130
Thiobencarb	1.96	2.01		ug/L		102	70 - 130
trans-Nonachlor	1.96	2.05		ug/L		105	70 - 130
Trifluralin	1.96	1.74		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*96*		*70 - 130*
Perylene-d12	*97*		*70 - 130*
Triphenylphosphate	*110*		*70 - 130*

Lab Sample ID: MRL 380-193113/22-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.106		ug/L		108	50 - 150
2,4'-DDD	0.0981	0.0965	J	ug/L		98	50 - 150
2,4'-DDE	0.0981	0.0964	J	ug/L		98	50 - 150
2,4'-DDT	0.0981	0.104		ug/L		106	50 - 150
2,4-Dinitrotoluene	0.0981	0.0885	J	ug/L		90	50 - 150
2,6-Dinitrotoluene	0.0981	0.102		ug/L		104	50 - 150
2-Methylnaphthalene	0.0981	0.102		ug/L		104	50 - 150
4,4'-DDD	0.0981	0.117		ug/L		119	50 - 150
4,4'-DDE	0.0981	0.0882	J	ug/L		90	50 - 150
4,4'-DDT	0.0981	0.114		ug/L		116	50 - 150
Acenaphthene	0.0981	0.0856	J	ug/L		87	50 - 150
Acenaphthylene	0.0981	0.0865	J	ug/L		88	50 - 150
Acetochlor	0.0981	0.109		ug/L		111	50 - 150

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-193113/22-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	0.0490	0.0620		ug/L		126	50 - 150
alpha-BHC	0.0981	0.0947	J	ug/L		97	50 - 150
alpha-Chlordane	0.0245	0.0336	J	ug/L		137	50 - 150
Anthracene	0.0196	0.0210		ug/L		107	50 - 150
Atrazine	0.0490	0.0697		ug/L		142	50 - 150
Benz(a)anthracene	0.0490	0.0574		ug/L		117	50 - 150
Benzo[a]pyrene	0.0196	0.0265		ug/L		135	50 - 150
Benzo[b]fluoranthene	0.0196	0.0256		ug/L		131	50 - 150
Benzo[g,h,i]perylene	0.0490	0.0492		ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0196	0.0253		ug/L		129	50 - 150
beta-BHC	0.0981	0.0978	J	ug/L		100	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.579	J	ug/L		98	50 - 150
Bromacil	0.0981	0.101		ug/L		103	50 - 150
Butachlor	0.0490	0.0629		ug/L		128	50 - 150
Butylbenzylphthalate	0.490	0.591		ug/L		120	50 - 150
Chlorobenzilate	0.0981	0.102		ug/L		104	50 - 150
Chloroneb	0.0981	0.0997		ug/L		102	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.125		ug/L		128	50 - 150
Chlorpyrifos	0.0490	0.0629		ug/L		128	50 - 150
Chrysene	0.0196	0.0194	J	ug/L		99	50 - 150
delta-BHC	0.0981	0.0948	J	ug/L		97	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.662		ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0490	0.0489	J	ug/L		100	50 - 150
Diclorvos (DDVP)	0.0490	0.0532		ug/L		109	50 - 150
Diethylphthalate	0.490	0.520		ug/L		106	50 - 150
Dimethylphthalate	0.490	0.480	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.490	0.524	J	ug/L		107	49 - 243
Di-n-octyl phthalate	0.0981	0.0968	J	ug/L		99	50 - 150
Endosulfan I (Alpha)	0.0981	0.0817	J	ug/L		83	50 - 150
Endosulfan II (Beta)	0.0981	0.102		ug/L		104	50 - 150
Endosulfan sulfate	0.0981	0.105		ug/L		107	50 - 150
Endrin	0.00981	0.0101		ug/L		103	50 - 150
Endrin aldehyde	0.0981	0.110		ug/L		112	50 - 150
EPTC	0.0981	0.0969	J	ug/L		99	50 - 150
Fluoranthene	0.0981	0.104		ug/L		106	50 - 150
Fluorene	0.0490	<0.049		ug/L		96	50 - 150
gamma-Chlordane	0.0245	0.0359	J	ug/L		146	50 - 150
Heptachlor	0.00981	0.0127		ug/L		129	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.0118		ug/L		120	50 - 150
Hexachlorobenzene	0.0490	0.0454	J	ug/L		93	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0451	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0531		ug/L		108	50 - 150
Isophorone	0.0981	0.117		ug/L		119	50 - 150
Lindane	0.00981	0.0130		ug/L		133	50 - 150
Malathion	0.0981	0.0998		ug/L		102	50 - 150
Methoxychlor	0.0490	0.0709		ug/L		145	50 - 150
Metolachlor	0.0490	0.0589		ug/L		120	50 - 150
Molinate	0.0981	0.111		ug/L		113	50 - 150
Naphthalene	0.0981	0.110		ug/L		112	50 - 150

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-193113/22-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0981	0.0854	J	ug/L		87	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.0840	J	ug/L		86	50 - 150
Phenanthrene	0.0392	0.0395		ug/L		101	50 - 150
Propachlor	0.0490	0.0511		ug/L		104	50 - 150
Pyrene	0.0490	0.0660		ug/L		135	50 - 150
Simazine	0.0490	0.0659		ug/L		134	50 - 150
Terbacil	0.0981	0.0915	J	ug/L		93	50 - 150
Terbuthylazine	0.0981	0.110		ug/L		113	50 - 150
Thiobencarb	0.0981	0.110		ug/L		113	50 - 150
trans-Nonachlor	0.0245	0.0342	J	ug/L		139	50 - 150
Trifluralin	0.0981	0.0903	J	ug/L		92	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*96*		*70 - 130*
Perylene-d12	*85*		*70 - 130*
Triphenylphosphate	*110*		*70 - 130*

Lab Sample ID: MRL 380-193113/22-A
Matrix: Water
Analysis Batch: 194198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.00981	0.00806	J	ug/L		82	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*94*		*70 - 130*
Perylene-d12	*77*		*70 - 130*
Triphenylphosphate	*104*		*70 - 130*

Lab Sample ID: 380-188296-I-1-A MS
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	2.01		ug/L		102	70 - 130
2,4'-DDD	<0.098		1.96	1.98		ug/L		101	70 - 130
2,4'-DDE	<0.098		1.96	2.12		ug/L		108	70 - 130
2,4'-DDT	<0.098		1.96	1.88		ug/L		96	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.86		ug/L		95	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	1.94		ug/L		99	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.96	1.97		ug/L		100	70 - 130
4,4'-DDE	<0.098		1.96	2.09		ug/L		107	70 - 130
4,4'-DDT	<0.098		1.96	1.94		ug/L		99	70 - 130
Acenaphthene	<0.098		1.96	2.00		ug/L		102	70 - 130
Acenaphthylene	<0.098		1.96	2.11		ug/L		108	70 - 130
Acetochlor	<0.098		1.96	1.99		ug/L		102	70 - 130
Alachlor	<0.049		1.96	2.01		ug/L		103	70 - 130

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-188296-I-1-A MS
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	<0.098		1.96	2.16		ug/L		110	70 - 130
alpha-Chlordane	<0.049		1.96	2.11		ug/L		106	70 - 130
Anthracene	<0.020	F1	1.96	0.949	F1	ug/L		49	70 - 130
Atrazine	<0.049		1.96	2.07		ug/L		106	70 - 130
Benz(a)anthracene	<0.049		1.96	2.05		ug/L		105	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.74		ug/L		89	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.12		ug/L		109	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.91		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	1.89		ug/L		96	70 - 130
beta-BHC	<0.098		1.96	2.18		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.78		ug/L		91	70 - 130
Bromacil	<0.098		1.96	1.85		ug/L		92	70 - 130
Butachlor	<0.049		1.96	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.31		ug/L		118	70 - 130
Chlorobenzilate	<0.098		1.96	2.05		ug/L		105	70 - 130
Chloroneb	<0.098		1.96	2.07		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.08		ug/L		106	70 - 130
Chlorpyrifos	<0.049		1.96	2.05		ug/L		105	70 - 130
Chrysene	<0.020		1.96	2.03		ug/L		104	70 - 130
delta-BHC	<0.098		1.96	2.10		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	1.98		ug/L		101	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.84		ug/L		94	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.05		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.96	2.20		ug/L		112	70 - 130
Dimethylphthalate	<0.49		1.96	2.13		ug/L		109	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.20		ug/L		107	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.65		ug/L		84	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.12		ug/L		109	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.05		ug/L		105	70 - 130
Endosulfan sulfate	<0.098		1.96	1.91		ug/L		98	70 - 130
Endrin	<0.0098		1.96	2.17		ug/L		111	70 - 130
Endrin aldehyde	<0.098		1.96	1.90		ug/L		97	60 - 130
EPTC	<0.098		1.96	2.22		ug/L		113	70 - 130
Fluoranthene	<0.098		1.96	2.04		ug/L		105	70 - 130
Fluorene	<0.049		1.96	2.15		ug/L		110	70 - 130
gamma-Chlordane	<0.049		1.96	2.06		ug/L		104	70 - 130
Heptachlor	<0.0098		1.96	1.95		ug/L		99	70 - 130
Heptachlor epoxide (isomer B)	0.015		1.96	2.35		ug/L		119	70 - 130
Hexachlorobenzene	<0.049		1.96	2.10		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	1.96		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.07		ug/L		106	70 - 130
Isophorone	<0.098		1.96	1.98		ug/L		101	70 - 130
Lindane	<0.0098		1.96	2.26		ug/L		115	70 - 130
Malathion	<0.098		1.96	2.06		ug/L		105	70 - 130
Methoxychlor	<0.049		1.96	2.11		ug/L		108	70 - 130
Metolachlor	<0.049		1.96	2.04		ug/L		104	70 - 130
Molinate	<0.098		1.96	2.11		ug/L		108	70 - 130
Naphthalene	<0.098		1.96	1.97		ug/L		101	70 - 130
Parathion	<0.098		1.96	2.09		ug/L		107	70 - 130

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-188296-I-1-A MS
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	<0.098		1.96	2.05		ug/L		105	70 - 130
Phenanthrene	<0.039		1.96	2.02		ug/L		103	70 - 130
Propachlor	<0.049		1.96	2.21		ug/L		113	70 - 130
Pyrene	<0.049		1.96	2.04		ug/L		104	70 - 130
Simazine	<0.049		1.96	2.01		ug/L		103	70 - 130
Terbacil	<0.098		1.96	2.00		ug/L		102	70 - 130
Terbuthylazine	<0.098		1.96	2.14		ug/L		110	70 - 130
Thiobencarb	<0.098		1.96	2.05		ug/L		105	70 - 130
trans-Nonachlor	<0.049		1.96	2.05		ug/L		103	70 - 130
Trifluralin	<0.098		1.96	1.86		ug/L		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*100*		*70 - 130*
Perylene-d12	*97*		*70 - 130*
Triphenylphosphate	*116*		*70 - 130*

Lab Sample ID: 380-188296-I-1-A MS
Matrix: Water
Analysis Batch: 194198

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.069		1.96	2.08		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*99*		*70 - 130*
Perylene-d12	*97*		*70 - 130*
Triphenylphosphate	*109*		*70 - 130*

Lab Sample ID: 380-188299-1 DU
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-188299-1 DU
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.014		0.0132		ug/L		5	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-188299-1 DU
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Phenanthrene	<0.039			<0.039		ug/L				NC	20
Propachlor	<0.049			<0.049		ug/L				NC	20
Pyrene	<0.049			<0.049		ug/L				NC	20
Simazine	<0.049			<0.049		ug/L				NC	20
Terbacil	<0.098			<0.098		ug/L				NC	20
Terbuthylazine	<0.098			<0.098		ug/L				NC	20
Thiobencarb	<0.098			<0.098		ug/L				NC	20
Total Permethrin (mixed isomers)	<0.20			<0.20		ug/L				NC	20
trans-Nonachlor	<0.049			<0.049		ug/L				NC	20
Trifluralin	<0.098			<0.098		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*98*		*70 - 130*
Perylene-d12	*93*		*70 - 130*
Triphenylphosphate	*110*		*70 - 130*

Lab Sample ID: 380-188299-1 DU
Matrix: Water
Analysis Batch: 194198

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Dieldrin	0.065			0.0748		ug/L				14	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*96*		*70 - 130*
Perylene-d12	*92*		*70 - 130*
Triphenylphosphate	*106*		*70 - 130*

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

Lab Sample ID: MB 570-671320/1-A
Matrix: Water
Analysis Batch: 676240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671320

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*12/17/25 05:54*	*12/29/25 11:40*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*33 - 139*	*12/17/25 05:54*	*12/29/25 11:40*	*1*
2-Fluorobiphenyl (Surr)	*81*		*33 - 126*	*12/17/25 05:54*	*12/29/25 11:40*	*1*
2-Fluorophenol (Surr)	*58*		*12 - 120*	*12/17/25 05:54*	*12/29/25 11:40*	*1*
Nitrobenzene-d5 (Surr)	*83*		*36 - 120*	*12/17/25 05:54*	*12/29/25 11:40*	*1*
Phenol-d6 (Surr)	*32*		*10 - 120*	*12/17/25 05:54*	*12/29/25 11:40*	*1*
p-Terphenyl-d14 (Surr)	*82*		*47 - 131*	*12/17/25 05:54*	*12/29/25 11:40*	*1*

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

Lab Sample ID: MB 570-671320/1-A
Matrix: Water
Analysis Batch: 674350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671320

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
2-Methylnaphthalene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthylene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Anthracene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]anthracene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]pyrene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Chrysene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluoranthene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluorene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Naphthalene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Phenanthrene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1
Pyrene	<0.20		0.20		ug/L		12/17/25 05:54	12/23/25 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*28 - 127*	*12/17/25 05:54*	*12/23/25 12:24*	*1*
2-Fluorobiphenyl (Surr)	*78*		*31 - 120*	*12/17/25 05:54*	*12/23/25 12:24*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*12/17/25 05:54*	*12/23/25 12:24*	*1*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*	*12/17/25 05:54*	*12/23/25 12:24*	*1*
Phenol-d6 (Surr)	*33*		*10 - 120*	*12/17/25 05:54*	*12/23/25 12:24*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 120*	*12/17/25 05:54*	*12/23/25 12:24*	*1*

Lab Sample ID: LCS 570-671320/2-A
Matrix: Water
Analysis Batch: 674350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			20.0	13.2		ug/L		66	47 - 120		
2-Methylnaphthalene			20.0	12.9		ug/L		65	43 - 120		
Acenaphthene			20.0	15.5		ug/L		77	60 - 132		
Acenaphthylene			20.0	14.4		ug/L		72	54 - 126		
Anthracene			20.0	16.0		ug/L		80	43 - 120		
Benzo[a]anthracene			20.0	15.5		ug/L		78	42 - 133		
Benzo[a]pyrene			20.0	16.7		ug/L		83	32 - 148		
Benzo[b]fluoranthene			20.0	16.1		ug/L		80	42 - 140		
Benzo[g,h,i]perylene			20.0	15.5		ug/L		78	1 - 195		
Benzo[k]fluoranthene			20.0	15.9		ug/L		79	25 - 146		
Chrysene			20.0	15.7		ug/L		78	44 - 140		
Dibenz(a,h)anthracene			20.0	16.3		ug/L		82	1 - 200		
Fluoranthene			20.0	16.3		ug/L		81	43 - 121		
Fluorene			20.0	15.4		ug/L		77	70 - 120		
Indeno[1,2,3-cd]pyrene			20.0	15.5		ug/L		77	1 - 151		
Naphthalene			20.0	12.6		ug/L		63	36 - 120		

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

Lab Sample ID: LCS 570-671320/2-A
Matrix: Water
Analysis Batch: 674350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenanthrene			20.0	15.7		ug/L		79	65 - 120		
Pyrene			20.0	16.2		ug/L		81	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*28 - 127*
2-Fluorobiphenyl (Surr)	*73*		*31 - 120*
2-Fluorophenol (Surr)	*58*		*17 120*
Nitrobenzene-d5 (Surr)	*63*		*27 - 120*
Phenol-d6 (Surr)	*38*		*10 - 120*
p-Terphenyl-d14 (Surr)	*77*		*45 - 120*

Lab Sample ID: LCSD 570-671320/3-A
Matrix: Water
Analysis Batch: 674350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 671320

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			20.0	14.8		ug/L		74	47 - 120	11	20
2-Methylnaphthalene			20.0	14.6		ug/L		73	43 - 120	12	20
Acenaphthene			20.0	17.8		ug/L		89	60 - 132	14	29
Acenaphthylene			20.0	17.0		ug/L		85	54 - 126	17	45
Anthracene			20.0	18.3		ug/L		91	43 - 120	14	40
Benzo[a]anthracene			20.0	17.3		ug/L		87	42 - 133	11	32
Benzo[a]pyrene			20.0	18.9		ug/L		94	32 - 148	12	43
Benzo[b]fluoranthene			20.0	18.4		ug/L		92	42 - 140	14	43
Benzo[g,h,i]perylene			20.0	17.4		ug/L		87	1 - 195	11	61
Benzo[k]fluoranthene			20.0	18.4		ug/L		92	25 - 146	14	38
Chrysene			20.0	17.5		ug/L		88	44 - 140	11	53
Dibenz(a,h)anthracene			20.0	17.7		ug/L		89	1 - 200	8	75
Fluoranthene			20.0	18.7		ug/L		93	43 - 121	14	40
Fluorene			20.0	17.5		ug/L		87	70 - 120	12	23
Indeno[1,2,3-cd]pyrene			20.0	17.6		ug/L		88	1 - 151	13	60
Naphthalene			20.0	14.2		ug/L		71	36 - 120	12	39
Phenanthrene			20.0	18.0		ug/L		90	65 - 120	14	24
Pyrene			20.0	18.1		ug/L		91	70 - 120	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*84*		*28 - 127*
2-Fluorobiphenyl (Surr)	*85*		*31 - 120*
2-Fluorophenol (Surr)	*63*		*17 - 120*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*
Phenol-d6 (Surr)	*41*		*10 - 120*
p-Terphenyl-d14 (Surr)	*83*		*45 - 120*

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-675780/12
Matrix: Water
Analysis Batch: 675780

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			12/27/25 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*38 - 134*		*12/27/25 15:53*	*1*

Lab Sample ID: LCS 570-675780/1010
Matrix: Water
Analysis Batch: 675780

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			400	389		ug/L		97	78 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*38 - 134*

Lab Sample ID: LCSD 570-675780/11
Matrix: Water
Analysis Batch: 675780

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
Gasoline Range Organics (C4-C13)			400	392		ug/L		98	78 - 120	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*

Lab Sample ID: MRL 570-675780/1005
Matrix: Water
Analysis Batch: 675780

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	11.6		ug/L		116	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*38 - 134*

Lab Sample ID: 380-188308-C-1 MS
Matrix: Water
Analysis Batch: 675780

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		
Gasoline Range Organics (C4-C13)	<10		400	413		ug/L		103	68 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*38 - 134*

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: 380-188308-C-1 MSD
Matrix: Water
Analysis Batch: 675780

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
Gasoline Range Organics (C4-C13)	<10		400	401		ug/L		100	68 - 122	3	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*38 - 134*

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

Lab Sample ID: MB 570-671434/1-A
Matrix: Water
Analysis Batch: 671882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671434

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		12/17/25 09:06	12/18/25 07:05	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		12/17/25 09:06	12/18/25 07:05	1
C8-C18	<25		25		ug/L		12/17/25 09:06	12/18/25 07:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*109*		*60 - 130*	*12/17/25 09:06*	*12/18/25 07:05*	*1*

Lab Sample ID: LCS 570-671434/2-A
Matrix: Water
Analysis Batch: 671882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671434

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1370		ug/L		86	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*105*		*60 - 130*

Lab Sample ID: LCSD 570-671434/3-A
Matrix: Water
Analysis Batch: 671882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 671434

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1250		ug/L		78	56 - 127	10	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*99*		*60 - 130*

Lab Sample ID: MRL 570-671434/4-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671434

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0218	J	mg/L		109	50 - 150		

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

Lab Sample ID: MRL 570-671434/4-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671434

Surrogate	MRL %Recovery	MRL Qualifier	Limits
n-Octacosane (Surr)	111		60 - 130

Lab Sample ID: 380-188308-B-1-A MS
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 671434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		2080	1490		ug/L		72	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane (Surr)	129		60 - 130

Lab Sample ID: 380-188308-B-1-B MSD
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 671434

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		2060	1620		ug/L		79	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane (Surr)	121		60 - 130

GC/MS Semi VOA

Prep Batch: 193113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
MB 380-193113/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-193113/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-193113/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-188296-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-188299-1 DU	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	

Analysis Batch: 193259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	193113
MB 380-193113/21-A	Method Blank	Total/NA	Water	525.2	193113
LCS 380-193113/23-A	Lab Control Sample	Total/NA	Water	525.2	193113
MRL 380-193113/22-A	Lab Control Sample	Total/NA	Water	525.2	193113
380-188296-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	193113
380-188299-1 DU	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	193113

Analysis Batch: 194198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	193113
MRL 380-193113/22-A	Lab Control Sample	Total/NA	Water	525.2	193113
380-188296-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	193113
380-188299-1 DU	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	193113

Prep Batch: 671320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 674350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1 SIM	671320
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	671320
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	671320

Analysis Batch: 675313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1 SIM	671320

Analysis Batch: 676240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	671320
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	671320

GC VOA

Analysis Batch: 675780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-188299-2	TB: Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	

GC VOA (Continued)

Analysis Batch: 675780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-675780/12	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-675780/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-675780/11	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-675780/1005	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-188308-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-188308-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 671434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1 - RA	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
MB 570-671434/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 671882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671434/1-A	Method Blank	Total/NA	Water	8015B	671434
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	8015B	671434
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	671434

Analysis Batch: 679225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188299-1 - RA	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	671434
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	8015B	671434
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	671434
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	671434

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-188299-1

Date Collected: 12/15/25 12:14

Matrix: Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			193113	IQ42	EA POM	12/17/25 15:48
Total/NA	Analysis	525.2		1	193259	UPAC	EA POM	12/18/25 14:27
Total/NA	Prep	525.2			193113	IQ42	EA POM	12/17/25 15:48
Total/NA	Analysis	525.2		1	194198	UPAC	EA POM	12/23/25 12:25
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1		1	676240	PQS1	EET CAL 4	12/29/25 16:45
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1 SIM		1	675313	PQS1	EET CAL 4	12/26/25 13:35
Total/NA	Analysis	8015B GRO LL		1	675780	AJG4	EET CAL 4	12/27/25 19:51
Total/NA	Prep	3510C	RA		671434	TVD6	EET CAL 4	12/18/25 08:24
Total/NA	Analysis	8015B	RA	1	679225	H6FE	EET CAL 4	01/06/26 23:39

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-188299-2

Date Collected: 12/15/25 12:14

Matrix: Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	675780	AJG4	EET CAL 4	12/27/25 17:18

Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

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

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

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
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525 2	525 2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbuthylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Laboratory: Eurofins Calscience (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

Method Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
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
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-188299-1
SDG: Weekly: Ka'amilo Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-188299-1	Ka'amilo Wells Pump 1	Water	12/15/25 12:14	12/17/25 10:30	Hawaii
380-188299-2	TB: Ka'amilo Wells Pump 1	Water	12/15/25 12:14	12/17/25 10:30	Hawaii

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: bailey	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-28005-2757 1
Client Contact: Mr Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5840 (Tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

Preservation Codes:
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate
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)	625.1; 625.1_BIM	8015B_GRO_LL - (MOD) GRO	8016B_DRO_LL_CS - HNL Ranges, C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I		
Ka'amilo Wells Pump 1	15-Dec-2025	1214	G	Water			2	3	2	2				
Ka'amilo Wells Pump 1 (Matrix Spike)				Water										
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)				Water										
TB: Ka'amilo Wells Pump 1	15-Dec-2025	1214		Water				2						

380-188299 COC

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: Fedex 8871 5109 9470
[redacted]	Date/Time: 16 December 2025 1400	Company: HBWS	Received by: Brandt Drake G
	Date/Time: 12-17-25 10 30	Company: EEAP	
Relinquished by:	Date/Time:	Company	Received by:
	Date/Time:	Company	
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: 401A) 1.7-0.2=1.5 Gel frozen

Ver: 04/02/2024

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record

eurofins | Loc: 380

188299

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-287643.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State - Hawaii		Job #: 380-188299-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 1/5/2026			Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	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)	8015B_DRO_LL_C5/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Ka'amilo Wells Pump 1 (380-188299-1)	12/15/25	12:14 Hawaiian	G	Water			X	X	X		MRLs are needed. Confirm any hits >RL.
TB: Ka'amilo Wells Pump 1 (380-188299-2)	12/15/25	12:14 Hawaiian	G	Water				X		2	MRLs are needed.

380-188299 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Mark Uratia	12/17/25 1530	EEAP		12-17-25 1530	WP
2		12-17-25 1630	WP		12-17-25 1630	
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.2/1.3 IR-4

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188299-1
SDG Number: Weekly: Ka'amilo Wells Pump 1

Login Number: 188299
List Number: 1
Creator: Segura, Ryan

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	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	
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	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188299-1
SDG Number: Weekly: Ka'amilo Wells Pump 1

Login Number: 188299
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 12/17/25 06:15 PM

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	1.3
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?	N/A	Received project as a subcontract.
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	