

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Ka'amila Wells Pump 1/Pump 2

JOB NUMBER

380-167047-1

Eurofins Eaton Analytical Pomona

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 Eaton Analytical, 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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.

Glossary

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

Case Narrative

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

Job ID: 380-167047-1

Job ID: 380-167047-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-167047-1

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 8/20/2025 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.5°C and 3.5°C.

GC/MS Semi VOA

Method 625.1: Surrogate recovery for the following sample was outside acceptance limits: Ka'amilo Wells Pump 1 (380-167047-1). The results have been reported per client request.

Method 625.1_SIM: The laboratory control sample duplicate (LCSD) for preparation batch 570-614874 and analytical batch 570-615967 recovered outside control limits for the following analytes: Pyrene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 625.1_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-614874 and analytical batch 570-615967 were outside control limits: (380-167051-A-1-A MS) and (380-167051-A-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria. Method 625.1_SIM: Surrogate recovery for the following sample is outside the lower control limit: Ka'amilo Wells Pump 1 (380-167047-1). The sample HT has expired therefore, no re-extraction. 625.1. 625.1_SIM for Ka'amilo Wells Pump 1 (380-167047-1) is not acceptable for compliance reporting, data excluded. The sample is collected weekly thus a follow up sample was collected on 08/25/25 under job # 380-168211. Analysis is currently in progress (XWB4

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

Gasoline Range Organics

Method 8015B_GRO_LL: The spiking solution was inadvertently omitted during the extraction process for the method reporting limit check (MRL) sample associated with preparation batch Ka'amilo Wells Pump 1 (380-167047-1), TB: Ka'amilo Wells Pump 1 (380-167047-2), Ka'amilo Wells Pump 2 (380-167047-3), TB: Ka'amilo Wells Pump 2 (380-167047-4) and (MRL 570-619222/6); therefore, percent recoveries are unavailable. Due to expired holding times, the affected samples could not be re-prepared and or re-analyzed, and the results have been reported.

Method 8015_GRO_LL for batch Ka'amilo Wells Pump 1 (380-167047-1), TB: Ka'amilo Wells Pump 1 (380-167047-2), Ka'amilo Wells Pump 2 (380-167047-3), TB: Ka'amilo Wells Pump 2 (380-167047-4) are not acceptable for compliance reporting due to omission of the MRL (method recovery limit) in the sample batch, 8015_GRO_LL data excluded. The sample is collected weekly thus a follow up sample was collected on 08/25/25 under job # 380-168211. Analysis is currently in progress (XWB4

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.

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Detection Summary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-167047-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.078		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: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.076		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		0.0098	ug/L	1		525.2	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-167047-1

Date Collected: 08/18/25 11:49

Matrix: Water

Date Received: 08/20/25 10:00

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		08/20/25 14:05	08/21/25 13:16	1
2,4'-DDD	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
2,4'-DDE	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
2,4'-DDT	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
4,4'-DDD	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
4,4'-DDE	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
4,4'-DDT	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Acenaphthene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Acenaphthylene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Acetochlor	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Alachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
alpha-BHC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
alpha-Chlordane	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Anthracene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:16	1
Atrazine	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:16	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:16	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:16	1
beta-BHC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/20/25 14:05	08/21/25 13:16	1
Bromacil	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Butachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/20/25 14:05	08/21/25 13:16	1
Chlorobenzilate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Chloroneb	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Chlorpyrifos	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Chrysene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:16	1
delta-BHC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/20/25 14:05	08/21/25 13:16	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Dieldrin	0.078		0.0098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Diethylphthalate	<0.49		0.49	ug/L		08/20/25 14:05	08/21/25 13:16	1
Dimethylphthalate	<0.49		0.49	ug/L		08/20/25 14:05	08/21/25 13:16	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/20/25 14:05	08/21/25 13:16	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Endrin	<0.0098		0.0098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Endrin aldehyde	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
EPTC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Fluoranthene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1

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Client Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-167047-1

Date Collected: 08/18/25 11:49

Matrix: Water

Date Received: 08/20/25 10:00

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		08/20/25 14:05	08/21/25 13:16	1
gamma-Chlordane	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Heptachlor	<0.0098		0.0098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Heptachlor epoxide (isomer B)	0.014		0.0098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Isophorone	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Lindane	<0.0098		0.0098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Malathion	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Methoxychlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Metolachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Molinate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Naphthalene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Parathion	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Phenanthrene	<0.039		0.039	ug/L		08/20/25 14:05	08/21/25 13:16	1
Propachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Pyrene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Simazine	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Terbacil	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Terbutylazine	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Thiobencarb	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/20/25 14:05	08/21/25 13:16	1
trans-Nonachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:16	1
Trifluralin	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/20/25 14:05	08/21/25 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	08/20/25 14:05	08/21/25 13:16	1
Perylene-d12	95		70 - 130	08/20/25 14:05	08/21/25 13:16	1
Triphenylphosphate	101		70 - 130	08/20/25 14:05	08/21/25 13:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/25/25 09:51	08/27/25 03:10	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/25/25 09:51	08/27/25 03:10	1
C8-C18	<25		25	ug/L		08/25/25 09:51	08/27/25 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		60 - 130	08/25/25 09:51	08/27/25 03:10	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

Date Collected: 08/18/25 12:33

Matrix: Water

Date Received: 08/20/25 10:00

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		08/20/25 14:05	08/21/25 13:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

Date Collected: 08/18/25 12:33

Matrix: Water

Date Received: 08/20/25 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
2,4'-DDE	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
2,4'-DDT	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
4,4'-DDD	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
4,4'-DDE	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
4,4'-DDT	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Acenaphthene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Acenaphthylene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Acetochlor	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Alachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
alpha-BHC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
alpha-Chlordane	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Anthracene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:36	1
Atrazine	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:36	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:36	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:36	1
beta-BHC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/20/25 14:05	08/21/25 13:36	1
Bromacil	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Butachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/20/25 14:05	08/21/25 13:36	1
Chlorobenzilate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Chloroneb	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Chlorpyrifos	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Chrysene	<0.020		0.020	ug/L		08/20/25 14:05	08/21/25 13:36	1
delta-BHC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/20/25 14:05	08/21/25 13:36	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Dieldrin	0.076		0.0098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Diethylphthalate	<0.49		0.49	ug/L		08/20/25 14:05	08/21/25 13:36	1
Dimethylphthalate	<0.49		0.49	ug/L		08/20/25 14:05	08/21/25 13:36	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/20/25 14:05	08/21/25 13:36	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Endrin	<0.0098		0.0098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Endrin aldehyde	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
EPTC	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Fluoranthene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Fluorene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1

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Client Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

Date Collected: 08/18/25 12:33

Matrix: Water

Date Received: 08/20/25 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Heptachlor	<0.0098		0.0098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Heptachlor epoxide (isomer B)	0.014		0.0098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Isophorone	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Lindane	<0.0098		0.0098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Malathion	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Methoxychlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Metolachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Molinate	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Naphthalene	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Parathion	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Phenanthrene	<0.039		0.039	ug/L		08/20/25 14:05	08/21/25 13:36	1
Propachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Pyrene	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Simazine	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Terbacil	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Terbutylazine	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Thiobencarb	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/20/25 14:05	08/21/25 13:36	1
trans-Nonachlor	<0.049		0.049	ug/L		08/20/25 14:05	08/21/25 13:36	1
Trifluralin	<0.098		0.098	ug/L		08/20/25 14:05	08/21/25 13:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/20/25 14:05	08/21/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	08/20/25 14:05	08/21/25 13:36	1
Perylene-d12	92		70 - 130	08/20/25 14:05	08/21/25 13:36	1
Triphenylphosphate	102		70 - 130	08/20/25 14:05	08/21/25 13:36	1

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		08/21/25 12:17	08/24/25 20:29	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Acenaphthene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Acenaphthylene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Anthracene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Chrysene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Fluoranthene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Fluorene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1

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Client Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

Date Collected: 08/18/25 12:33

Matrix: Water

Date Received: 08/20/25 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Naphthalene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Phenanthrene	<0.19		0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1
Pyrene	<0.19	+	0.19	ug/L		08/21/25 12:17	08/24/25 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		28 - 127	08/21/25 12:17	08/24/25 20:29	1
2-Fluorobiphenyl (Surr)	79		31 - 120	08/21/25 12:17	08/24/25 20:29	1
2-Fluorophenol (Surr)	60		17 - 120	08/21/25 12:17	08/24/25 20:29	1
Nitrobenzene-d5 (Surr)	86		27 - 120	08/21/25 12:17	08/24/25 20:29	1
Phenol-d6 (Surr)	37		10 - 120	08/21/25 12:17	08/24/25 20:29	1
p-Terphenyl-d14 (Surr)	90		45 - 120	08/21/25 12:17	08/24/25 20:29	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	08/21/25 12:17	08/28/25 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139	08/21/25 12:17	08/28/25 00:31	1
2-Fluorobiphenyl (Surr)	90		33 - 126	08/21/25 12:17	08/28/25 00:31	1
2-Fluorophenol (Surr)	60		12 - 120	08/21/25 12:17	08/28/25 00:31	1
Nitrobenzene-d5 (Surr)	90		36 - 120	08/21/25 12:17	08/28/25 00:31	1
Phenol-d6 (Surr)	35		10 - 120	08/21/25 12:17	08/28/25 00:31	1
p-Terphenyl-d14 (Surr)	95		47 - 131	08/21/25 12:17	08/28/25 00:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/25/25 09:51	08/27/25 07:51	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/25/25 09:51	08/27/25 07:51	1
C8-C18	<25		25	ug/L		08/25/25 09:51	08/27/25 07:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		60 - 130	08/25/25 09:51	08/27/25 07:51	1

Action Limit Summary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-167047-1

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	RL	Method	Prep Type
				Limit			
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

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

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	RL	Method	Prep Type
				Limit			
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: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-166900-AP-1-A DU	Duplicate	99	100	110
380-166906-AP-1-A MS	Matrix Spike	101	102	115
380-167047-1	Ka'amilo Wells Pump 1	98	95	101
380-167047-3	Ka'amilo Wells Pump 2	100	92	102
LCS 380-169534/19-A	Lab Control Sample	96	97	103
MB 380-169534/17-A	Method Blank	97	93	103
MRL 380-169534/18-A	Lab Control Sample	99	86	111

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-167047-3	Ka'amilo Wells Pump 2	85	90	60	90	35	95
MB 570-614874/1-A	Method Blank	76	87	67	88	33	91

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-167047-3	Ka'amilo Wells Pump 2	87	79	60	86	37	90
380-167051-A-1-A MS	Matrix Spike	92	87	72	77	47	91
380-167051-A-1-B MSD	Matrix Spike Duplicate	88	85	71	75	46	83
LCS 570-614874/2-A	Lab Control Sample	81	79	70	73	48	89
LCSD 570-614874/3-A	Lab Control Sample Dup	83	81	72	74	49	91
MB 570-614874/1-A	Method Blank	89	82	68	91	45	92

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
Project/Site: RED-HILL

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-167047-1	Ka'amilo Wells Pump 1	113
380-167047-3	Ka'amilo Wells Pump 2	122
380-167051-B-1-A MS	Matrix Spike	112
380-167051-B-1-B MSD	Matrix Spike Duplicate	112
LCS 570-616282/2-A	Lab Control Sample	115
LCSD 570-616282/3-A	Lab Control Sample Dup	113
MB 570-616282/1-A	Method Blank	103
MRL 570-616282/4-A	Lab Control Sample	101
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-169534/17-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 169534

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
2,4'-DDD	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
2,4'-DDE	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
2,4'-DDT	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
4,4'-DDD	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
4,4'-DDE	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
4,4'-DDT	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Acenaphthene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Acenaphthylene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Acetochlor	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Alachlor	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
alpha-BHC	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
alpha-Chlordane	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Anthracene	<0.019		0.019	ug/L		08/20/25 11:04	08/21/25 11:55	1
Atrazine	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Benz(a)anthracene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/20/25 11:04	08/21/25 11:55	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/20/25 11:04	08/21/25 11:55	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/20/25 11:04	08/21/25 11:55	1
beta-BHC	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/20/25 11:04	08/21/25 11:55	1
Bromacil	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Butachlor	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Butylbenzylphthalate	<0.48		0.48	ug/L		08/20/25 11:04	08/21/25 11:55	1
Chlorobenzilate	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Chloroneb	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Chlorpyrifos	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Chrysene	<0.019		0.019	ug/L		08/20/25 11:04	08/21/25 11:55	1
delta-BHC	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/20/25 11:04	08/21/25 11:55	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Dieldrin	<0.0097		0.0097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Diethylphthalate	<0.48		0.48	ug/L		08/20/25 11:04	08/21/25 11:55	1
Dimethylphthalate	<0.48		0.48	ug/L		08/20/25 11:04	08/21/25 11:55	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/20/25 11:04	08/21/25 11:55	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Endrin	<0.0097		0.0097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Endrin aldehyde	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
EPTC	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-169534/17-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 169534

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Fluorene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
gamma-Chlordane	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Heptachlor	<0.0097		0.0097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Hexachlorobenzene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Isophorone	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Lindane	<0.0097		0.0097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Malathion	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Methoxychlor	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Metolachlor	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Molinate	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Naphthalene	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Parathion	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Phenanthrene	<0.039		0.039	ug/L		08/20/25 11:04	08/21/25 11:55	1
Propachlor	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Pyrene	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Simazine	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Terbacil	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Terbutylazine	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Thiobencarb	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/20/25 11:04	08/21/25 11:55	1
trans-Nonachlor	<0.048		0.048	ug/L		08/20/25 11:04	08/21/25 11:55	1
Trifluralin	<0.097		0.097	ug/L		08/20/25 11:04	08/21/25 11:55	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.03	T J	ug/L		2.56	N/A	08/20/25 11:04	08/21/25 11:55	1
Decane	1.63	T J N	ug/L		2.82	124-18-5	08/20/25 11:04	08/21/25 11:55	1
Phenol, 4-(1,1-dimethylpropyl)-	0.630	T J N	ug/L		4.29	80-46-6	08/20/25 11:04	08/21/25 11:55	1
9-Octadecenamide, (Z)-	1.46	T J N	ug/L		7.97	301-02-0	08/20/25 11:04	08/21/25 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	08/20/25 11:04	08/21/25 11:55	1
Perylene-d12	93		70 - 130	08/20/25 11:04	08/21/25 11:55	1
Triphenylphosphate	103		70 - 130	08/20/25 11:04	08/21/25 11:55	1

Lab Sample ID: LCS 380-169534/19-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.93		ug/L		99	70 - 130
2,4'-DDD	1.95	2.04		ug/L		104	70 - 130
2,4'-DDE	1.95	2.05		ug/L		105	70 - 130
2,4'-DDT	1.95	1.92		ug/L		98	70 - 130

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QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-169534/19-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.95	1.82		ug/L		93	70 - 130
2,6-Dinitrotoluene	1.95	1.99		ug/L		102	70 - 130
2-Methylnaphthalene	1.95	1.93		ug/L		99	70 - 130
4,4'-DDD	1.95	2.00		ug/L		103	70 - 130
4,4'-DDE	1.95	2.08		ug/L		107	70 - 130
4,4'-DDT	1.95	1.97		ug/L		101	70 - 130
Acenaphthene	1.95	1.90		ug/L		98	70 - 130
Acenaphthylene	1.95	1.76		ug/L		90	70 - 130
Acetochlor	1.95	1.97		ug/L		101	70 - 130
Alachlor	1.95	2.14		ug/L		109	70 - 130
alpha-BHC	1.95	2.10		ug/L		107	70 - 130
alpha-Chlordane	1.95	1.89		ug/L		97	70 - 130
Anthracene	1.95	1.83		ug/L		94	70 - 130
Atrazine	1.95	2.13		ug/L		109	70 - 130
Benz(a)anthracene	1.95	1.95		ug/L		100	70 - 130
Benzo[a]pyrene	1.95	2.07		ug/L		106	70 - 130
Benzo[b]fluoranthene	1.95	2.09		ug/L		107	70 - 130
Benzo[g,h,i]perylene	1.95	2.01		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.95	2.01		ug/L		103	70 - 130
beta-BHC	1.95	2.17		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.81		ug/L		93	70 - 130
Bromacil	1.95	2.10		ug/L		108	70 - 130
Butachlor	1.95	2.06		ug/L		106	70 - 130
Butylbenzylphthalate	1.95	2.39		ug/L		123	70 - 130
Chlorobenzilate	1.95	2.03		ug/L		104	70 - 130
Chloroneb	1.95	1.97		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	1.90		ug/L		97	70 - 130
Chlorpyrifos	1.95	1.92		ug/L		99	70 - 130
Chrysene	1.95	2.14		ug/L		110	70 - 130
delta-BHC	1.95	2.03		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.08		ug/L		107	70 - 130
Dibenz(a,h)anthracene	1.95	1.97		ug/L		101	70 - 130
Diclorvos (DDVP)	1.95	2.07		ug/L		106	70 - 130
Dieldrin	1.95	2.09		ug/L		107	70 - 130
Diethylphthalate	1.95	2.04		ug/L		104	70 - 130
Dimethylphthalate	1.95	2.04		ug/L		104	70 - 130
Di-n-butyl phthalate	3.90	4.52		ug/L		116	70 - 130
Di-n-octyl phthalate	1.95	1.82		ug/L		93	70 - 130
Endosulfan I (Alpha)	1.95	2.04		ug/L		105	70 - 130
Endosulfan II (Beta)	1.95	2.11		ug/L		108	70 - 130
Endosulfan sulfate	1.95	1.97		ug/L		101	70 - 130
Endrin	1.95	2.13		ug/L		109	70 - 130
Endrin aldehyde	1.95	1.85		ug/L		95	60 - 130
EPTC	1.95	2.05		ug/L		105	70 - 130
Fluoranthene	1.95	2.11		ug/L		108	70 - 130
Fluorene	1.95	2.04		ug/L		104	70 - 130
gamma-Chlordane	1.95	1.92		ug/L		98	70 - 130
Heptachlor	1.95	1.98		ug/L		101	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.09		ug/L		107	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-169534/19-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.95	1.89		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.95	1.84		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.03		ug/L		104	70 - 130
Isophorone	1.95	1.97		ug/L		101	70 - 130
Lindane	1.95	2.16		ug/L		111	70 - 130
Malathion	1.95	1.92		ug/L		98	70 - 130
Methoxychlor	1.95	1.96		ug/L		101	70 - 130
Metolachlor	1.95	2.03		ug/L		104	70 - 130
Molinate	1.95	2.11		ug/L		108	70 - 130
Naphthalene	1.95	1.87		ug/L		96	70 - 130
Parathion	1.95	2.00		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	1.95	2.00		ug/L		102	70 - 130
Phenanthrene	1.95	1.98		ug/L		102	70 - 130
Propachlor	1.95	2.28		ug/L		117	70 - 130
Pyrene	1.95	2.03		ug/L		104	70 - 130
Simazine	1.95	2.18		ug/L		112	70 - 130
Terbacil	1.95	2.14		ug/L		109	70 - 130
Terbutylazine	1.95	2.08		ug/L		107	70 - 130
Thiobencarb	1.95	1.97		ug/L		101	70 - 130
trans-Nonachlor	1.95	1.99		ug/L		102	70 - 130
Trifluralin	1.95	1.84		ug/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: MRL 380-169534/18-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0974	0.114		ug/L		117	50 - 150
2,4'-DDD	0.0974	0.0966	J	ug/L		99	50 - 150
2,4'-DDE	0.0974	0.0987		ug/L		101	50 - 150
2,4'-DDT	0.0974	0.109		ug/L		112	50 - 150
2,4-Dinitrotoluene	0.0974	0.0973		ug/L		100	50 - 150
2,6-Dinitrotoluene	0.0974	0.113		ug/L		116	50 - 150
2-Methylnaphthalene	0.0974	0.109		ug/L		112	50 - 150
4,4'-DDD	0.0974	0.115		ug/L		118	50 - 150
4,4'-DDE	0.0974	0.102		ug/L		104	50 - 150
4,4'-DDT	0.0974	0.127		ug/L		131	50 - 150
Acenaphthene	0.0974	0.101		ug/L		104	50 - 150
Acenaphthylene	0.0974	0.0910	J	ug/L		93	50 - 150
Acetochlor	0.0974	0.122		ug/L		126	50 - 150
Alachlor	0.0487	0.0541		ug/L		111	50 - 150
alpha-BHC	0.0974	0.108		ug/L		111	50 - 150
alpha-Chlordane	0.0243	0.0292	J	ug/L		120	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-169534/18-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0195	0.0235		ug/L		121	50 - 150
Atrazine	0.0487	0.0607		ug/L		125	50 - 150
Benz(a)anthracene	0.0487	0.0487	J	ug/L		100	50 - 150
Benzo[a]pyrene	0.0195	0.0230		ug/L		118	50 - 150
Benzo[b]fluoranthene	0.0195	0.0240		ug/L		123	50 - 150
Benzo[g,h,i]perylene	0.0487	0.0479	J	ug/L		98	50 - 150
Benzo[k]fluoranthene	0.0195	0.0247		ug/L		127	50 - 150
beta-BHC	0.0974	0.117		ug/L		120	50 - 150
Bis(2-ethylhexyl) phthalate	0.584	0.534	J	ug/L		91	50 - 150
Bromacil	0.0974	0.128		ug/L		131	50 - 150
Butachlor	0.0487	0.0621		ug/L		127	50 - 150
Butylbenzylphthalate	0.487	0.681		ug/L		140	50 - 150
Chlorobenzilate	0.0974	0.111		ug/L		114	50 - 150
Chloroneb	0.0974	0.111		ug/L		114	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0974	0.0936	J	ug/L		96	50 - 150
Chlorpyrifos	0.0487	0.0576		ug/L		118	50 - 150
Chrysene	0.0195	0.0242		ug/L		124	50 - 150
delta-BHC	0.0974	0.113		ug/L		116	50 - 150
Di(2-ethylhexyl)adipate	0.584	0.709		ug/L		121	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0460	J	ug/L		94	50 - 150
Diclorvos (DDVP)	0.0487	0.0580		ug/L		119	50 - 150
Dieldrin	0.00974	0.00969	J	ug/L		100	50 - 150
Diethylphthalate	0.487	0.538		ug/L		111	50 - 150
Dimethylphthalate	0.487	0.543		ug/L		111	50 - 150
Di-n-butyl phthalate	0.487	0.775	J	ug/L		159	49 - 243
Di-n-octyl phthalate	0.0974	0.0792	J	ug/L		81	50 - 150
Endosulfan I (Alpha)	0.0974	0.0881	J	ug/L		90	50 - 150
Endosulfan II (Beta)	0.0974	0.110		ug/L		113	50 - 150
Endosulfan sulfate	0.0974	0.115		ug/L		118	50 - 150
Endrin	0.00974	0.0135		ug/L		139	50 - 150
Endrin aldehyde	0.0974	0.114		ug/L		117	50 - 150
EPTC	0.0974	0.100		ug/L		103	50 - 150
Fluoranthene	0.0974	0.108		ug/L		111	50 - 150
Fluorene	0.0487	0.0538		ug/L		110	50 - 150
gamma-Chlordane	0.0243	0.0288	J	ug/L		118	50 - 150
Heptachlor	0.00974	0.00818	J	ug/L		84	50 - 150
Heptachlor epoxide (isomer B)	0.00974	0.0139		ug/L		142	50 - 150
Hexachlorobenzene	0.0487	0.0504		ug/L		103	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0463	J	ug/L		95	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0493		ug/L		101	50 - 150
Isophorone	0.0974	0.123		ug/L		126	50 - 150
Lindane	0.00974	0.0127		ug/L		130	50 - 150
Malathion	0.0974	0.105		ug/L		108	50 - 150
Methoxychlor	0.0487	0.0704		ug/L		145	50 - 150
Metolachlor	0.0487	0.0667		ug/L		137	50 - 150
Molinate	0.0974	0.103		ug/L		106	50 - 150
Naphthalene	0.0974	0.119		ug/L		123	50 - 150
Parathion	0.0974	0.0972		ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0974	0.102		ug/L		105	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-169534/18-A

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0389	0.0430		ug/L		110	50 - 150
Propachlor	0.0487	0.0529		ug/L		109	50 - 150
Pyrene	0.0487	0.0548		ug/L		112	50 - 150
Simazine	0.0487	0.0551		ug/L		113	50 - 150
Terbacil	0.0974	0.118		ug/L		121	50 - 150
Terbutylazine	0.0974	0.108		ug/L		110	50 - 150
Thiobencarb	0.0974	0.113		ug/L		116	50 - 150
trans-Nonachlor	0.0243	0.0267	J	ug/L		109	50 - 150
Trifluralin	0.0974	0.100		ug/L		103	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: 380-166906-AP-1-A MS

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.97	1.95		ug/L		99	70 - 130
2,4'-DDD	<0.097		1.97	2.08		ug/L		105	70 - 130
2,4'-DDE	<0.097		1.97	1.98		ug/L		100	70 - 130
2,4'-DDT	<0.097		1.97	1.85		ug/L		94	70 - 130
2,4-Dinitrotoluene	<0.097		1.97	1.90		ug/L		96	70 - 130
2,6-Dinitrotoluene	<0.097		1.97	1.99		ug/L		101	70 - 130
2-Methylnaphthalene	<0.097		1.97	1.94		ug/L		98	70 - 130
4,4'-DDD	<0.097		1.97	2.07		ug/L		105	70 - 130
4,4'-DDE	<0.097		1.97	1.74		ug/L		88	70 - 130
4,4'-DDT	<0.097		1.97	1.78		ug/L		90	70 - 130
Acenaphthene	<0.097		1.97	1.98		ug/L		100	70 - 130
Acenaphthylene	<0.097		1.97	1.86		ug/L		95	70 - 130
Acetochlor	<0.097		1.97	2.11		ug/L		107	70 - 130
Alachlor	<0.048		1.97	2.38		ug/L		121	70 - 130
alpha-BHC	<0.097		1.97	2.09		ug/L		106	70 - 130
alpha-Chlordane	<0.048		1.97	1.98		ug/L		100	70 - 130
Anthracene	<0.019		1.97	1.89		ug/L		96	70 - 130
Atrazine	<0.048		1.97	2.12		ug/L		108	70 - 130
Benz(a)anthracene	<0.048		1.97	1.90		ug/L		97	70 - 130
Benzo[a]pyrene	<0.019		1.97	2.27		ug/L		115	70 - 130
Benzo[b]fluoranthene	<0.019		1.97	2.27		ug/L		115	70 - 130
Benzo[g,h,i]perylene	<0.048		1.97	1.89		ug/L		96	70 - 130
Benzo[k]fluoranthene	<0.019		1.97	2.10		ug/L		107	70 - 130
beta-BHC	<0.097		1.97	2.21		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.97	1.53		ug/L		78	70 - 130
Bromacil	<0.097		1.97	2.10		ug/L		107	70 - 130
Butachlor	<0.048		1.97	2.29		ug/L		116	70 - 130
Butylbenzylphthalate	<0.48	F1	1.97	2.60	F1	ug/L		132	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: 380-166906-AP-1-A MS

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.097		1.97	2.34		ug/L		119	70 - 130
Chloroneb	<0.097		1.97	2.01		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.97	2.04		ug/L		104	70 - 130
Chlorpyrifos	<0.048		1.97	2.05		ug/L		104	70 - 130
Chrysene	<0.019		1.97	1.99		ug/L		101	70 - 130
delta-BHC	<0.097		1.97	2.18		ug/L		111	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.97	1.64		ug/L		83	70 - 130
Dibenz(a,h)anthracene	<0.048		1.97	1.84		ug/L		93	70 - 130
Diclorvos (DDVP)	<0.048		1.97	2.12		ug/L		107	70 - 130
Dieldrin	<0.0097		1.97	2.15		ug/L		109	70 - 130
Diethylphthalate	<0.48		1.97	2.10		ug/L		107	70 - 130
Dimethylphthalate	<0.48		1.97	2.10		ug/L		107	70 - 130
Di-n-butyl phthalate	1.2 F1		3.94	6.84 F1		ug/L		142	70 - 130
Di-n-octyl phthalate	<0.097		1.97	1.39		ug/L		71	70 - 130
Endosulfan I (Alpha)	<0.097		1.97	2.10		ug/L		107	70 - 130
Endosulfan II (Beta)	<0.097		1.97	2.30		ug/L		117	70 - 130
Endosulfan sulfate	<0.097		1.97	2.12		ug/L		107	70 - 130
Endrin	<0.0097		1.97	2.27		ug/L		115	70 - 130
Endrin aldehyde	<0.097		1.97	1.67		ug/L		85	60 - 130
EPTC	<0.097		1.97	2.11		ug/L		107	70 - 130
Fluoranthene	<0.097		1.97	2.17		ug/L		110	70 - 130
Fluorene	<0.048		1.97	2.16		ug/L		109	70 - 130
gamma-Chlordane	<0.048		1.97	2.03		ug/L		103	70 - 130
Heptachlor	<0.0097		1.97	2.15		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.97	2.23		ug/L		113	70 - 130
Hexachlorobenzene	<0.048		1.97	1.98		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.048		1.97	1.96		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.97	2.09		ug/L		106	70 - 130
Isophorone	<0.097		1.97	2.00		ug/L		102	70 - 130
Lindane	<0.0097		1.97	2.22		ug/L		113	70 - 130
Malathion	<0.097		1.97	2.13		ug/L		108	70 - 130
Methoxychlor	<0.048		1.97	2.55		ug/L		129	70 - 130
Metolachlor	<0.048		1.97	2.15		ug/L		109	70 - 130
Molinate	<0.097		1.97	2.19		ug/L		111	70 - 130
Naphthalene	<0.097		1.97	1.90		ug/L		97	70 - 130
Parathion	<0.097		1.97	2.33		ug/L		118	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.97	2.26		ug/L		115	70 - 130
Phenanthrene	<0.039		1.97	2.09		ug/L		106	70 - 130
Propachlor	<0.048		1.97	2.36		ug/L		120	70 - 130
Pyrene	<0.048		1.97	2.12		ug/L		108	70 - 130
Simazine	<0.048		1.97	2.23		ug/L		111	70 - 130
Terbacil	<0.097		1.97	2.15		ug/L		109	70 - 130
Terbutylazine	<0.097		1.97	2.15		ug/L		109	70 - 130
Thiobencarb	<0.097		1.97	2.13		ug/L		108	70 - 130
trans-Nonachlor	<0.048		1.97	1.99		ug/L		101	70 - 130
Trifluralin	<0.097		1.97	2.00		ug/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: 380-166906-AP-1-A MS
Matrix: Water
Analysis Batch: 169713

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 169534

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	115		70 - 130

Lab Sample ID: 380-166900-AP-1-A DU
Matrix: Water
Analysis Batch: 169713

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 169534

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.096		<0.10		ug/L		NC	20
2,4'-DDD	<0.096		<0.10		ug/L		NC	20
2,4'-DDE	<0.096		<0.10		ug/L		NC	20
2,4'-DDT	<0.096		<0.10		ug/L		NC	20
2,4-Dinitrotoluene	<0.096		<0.10		ug/L		NC	20
2,6-Dinitrotoluene	<0.096		<0.10		ug/L		NC	20
2-Methylnaphthalene	<0.096		<0.10		ug/L		NC	20
4,4'-DDD	<0.096		<0.10		ug/L		NC	20
4,4'-DDE	<0.096		<0.10		ug/L		NC	20
4,4'-DDT	<0.096		<0.10		ug/L		NC	20
Acenaphthene	<0.096		<0.10		ug/L		NC	20
Acenaphthylene	<0.096		<0.10		ug/L		NC	20
Acetochlor	<0.096		<0.10		ug/L		NC	20
Alachlor	<0.048		<0.050		ug/L		NC	20
alpha-BHC	<0.096		<0.10		ug/L		NC	20
alpha-Chlordane	<0.048		<0.050		ug/L		NC	20
Anthracene	<0.019		<0.020		ug/L		NC	20
Atrazine	<0.048		<0.050		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.050		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.050		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.020		ug/L		NC	20
beta-BHC	<0.096		<0.10		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.60		ug/L		NC	20
Bromacil	<0.096		<0.10		ug/L		NC	20
Butachlor	<0.048		<0.050		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.50		ug/L		NC	20
Chlorobenzilate	<0.096		<0.10		ug/L		NC	20
Chloroneb	<0.096		<0.10		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.096		<0.10		ug/L		NC	20
Chlorpyrifos	<0.048		<0.050		ug/L		NC	20
Chrysene	<0.019		<0.020		ug/L		NC	20
delta-BHC	<0.096		<0.10		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.60		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.050		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.050		ug/L		NC	20
Dieldrin	<0.0096		<0.010		ug/L		NC	20
Diethylphthalate	<0.48		<0.50		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: 380-166900-AP-1-A DU

Matrix: Water

Analysis Batch: 169713

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 169534

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.48		<0.50		ug/L		NC	20
Di-n-butyl phthalate	<0.96		<1.0		ug/L		NC	20
Di-n-octyl phthalate	<0.096		<0.10		ug/L		NC	20
Endosulfan I (Alpha)	<0.096		<0.10		ug/L		NC	20
Endosulfan II (Beta)	<0.096		<0.10		ug/L		NC	20
Endosulfan sulfate	<0.096		<0.10		ug/L		NC	20
Endrin	<0.0096		<0.010		ug/L		NC	20
Endrin aldehyde	<0.096		<0.10		ug/L		NC	20
EPTC	<0.096		<0.10		ug/L		NC	20
Fluoranthene	<0.096		<0.10		ug/L		NC	20
Fluorene	<0.048		<0.050		ug/L		NC	20
gamma-Chlordane	<0.048		<0.050		ug/L		NC	20
Heptachlor	<0.0096		<0.010		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0096		<0.010		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.050		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.050		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.050		ug/L		NC	20
Isophorone	<0.096		<0.10		ug/L		NC	20
Lindane	<0.0096		<0.010		ug/L		NC	20
Malathion	<0.096		<0.10		ug/L		NC	20
Methoxychlor	<0.048		<0.050		ug/L		NC	20
Metolachlor	<0.048		<0.050		ug/L		NC	20
Molinate	<0.096		<0.10		ug/L		NC	20
Naphthalene	<0.096		<0.10		ug/L		NC	20
Parathion	<0.096		<0.10		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.096		<0.10		ug/L		NC	20
Phenanthrene	<0.039		<0.040		ug/L		NC	20
Propachlor	<0.048		<0.050		ug/L		NC	20
Pyrene	<0.048		<0.050		ug/L		NC	20
Simazine	<0.048		<0.050		ug/L		NC	20
Terbacil	<0.096		<0.10		ug/L		NC	20
Terbutylazine	<0.096		<0.10		ug/L		NC	20
Thiobencarb	<0.096		<0.10		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.20		ug/L		NC	20
trans-Nonachlor	<0.048		<0.050		ug/L		NC	20
Trifluralin	<0.096		<0.10		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	110		70 - 130

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: MB 570-614874/1-A
Matrix: Water
Analysis Batch: 617703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614874

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>08/21/25 12:17</i>	<i>08/27/25 16:18</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	76		33 - 139				08/21/25 12:17	08/27/25 16:18	1
2-Fluorobiphenyl (Surr)	87		33 - 126				08/21/25 12:17	08/27/25 16:18	1
2-Fluorophenol (Surr)	67		12 - 120				08/21/25 12:17	08/27/25 16:18	1
Nitrobenzene-d5 (Surr)	88		36 - 120				08/21/25 12:17	08/27/25 16:18	1
Phenol-d6 (Surr)	33		10 - 120				08/21/25 12:17	08/27/25 16:18	1
p-Terphenyl-d14 (Surr)	91		47 - 131				08/21/25 12:17	08/27/25 16:18	1

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

Lab Sample ID: MB 570-614874/1-A
Matrix: Water
Analysis Batch: 615967

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614874

<i>Analyte</i>	<i>Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Acenaphthene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Acenaphthylene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Anthracene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Chrysene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Fluoranthene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Fluorene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Naphthalene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Phenanthrene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
Pyrene	<0.20		0.20	ug/L		08/21/25 12:17	08/24/25 06:12	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	89		28 - 127			08/21/25 12:17	08/24/25 06:12	1
2-Fluorobiphenyl (Surr)	82		31 - 120			08/21/25 12:17	08/24/25 06:12	1
2-Fluorophenol (Surr)	68		17 - 120			08/21/25 12:17	08/24/25 06:12	1
Nitrobenzene-d5 (Surr)	91		27 - 120			08/21/25 12:17	08/24/25 06:12	1
Phenol-d6 (Surr)	45		10 - 120			08/21/25 12:17	08/24/25 06:12	1
p-Terphenyl-d14 (Surr)	92		45 - 120			08/21/25 12:17	08/24/25 06:12	1

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QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 570-614874/2-A

Matrix: Water

Analysis Batch: 615967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.6		ug/L		93	47 - 120
2-Methylnaphthalene	20.0	18.2		ug/L		91	43 - 120
Acenaphthene	20.0	20.9		ug/L		104	60 - 132
Acenaphthylene	20.0	21.7		ug/L		109	54 - 126
Anthracene	20.0	20.9		ug/L		104	43 - 120
Benzo[a]anthracene	20.0	22.8		ug/L		114	42 - 133
Benzo[a]pyrene	20.0	22.2		ug/L		111	32 - 148
Benzo[b]fluoranthene	20.0	22.2		ug/L		111	42 - 140
Benzo[g,h,i]perylene	20.0	22.2		ug/L		111	1 - 195
Benzo[k]fluoranthene	20.0	21.2		ug/L		106	25 - 146
Chrysene	20.0	22.0		ug/L		110	44 - 140
Dibenz(a,h)anthracene	20.0	22.6		ug/L		113	1 - 200
Fluoranthene	20.0	21.8		ug/L		109	43 - 121
Fluorene	20.0	21.6		ug/L		108	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	21.8		ug/L		109	1 - 151
Naphthalene	20.0	17.7		ug/L		89	36 - 120
Phenanthrene	20.0	20.8		ug/L		104	65 - 120
Pyrene	20.0	24.0		ug/L		120	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	70		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	48		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: LCSD 570-614874/3-A

Matrix: Water

Analysis Batch: 615967

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	19.2		ug/L		96	47 - 120	3	20
2-Methylnaphthalene	20.0	18.8		ug/L		94	43 - 120	3	20
Acenaphthene	20.0	21.2		ug/L		106	60 - 132	2	29
Acenaphthylene	20.0	22.2		ug/L		111	54 - 126	2	45
Anthracene	20.0	21.2		ug/L		106	43 - 120	1	40
Benzo[a]anthracene	20.0	23.3		ug/L		116	42 - 133	2	32
Benzo[a]pyrene	20.0	22.6		ug/L		113	32 - 148	2	43
Benzo[b]fluoranthene	20.0	22.5		ug/L		113	42 - 140	1	43
Benzo[g,h,i]perylene	20.0	22.8		ug/L		114	1 - 195	3	61
Benzo[k]fluoranthene	20.0	21.5		ug/L		108	25 - 146	2	38
Chrysene	20.0	22.4		ug/L		112	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	23.6		ug/L		118	1 - 200	4	75
Fluoranthene	20.0	21.9		ug/L		109	43 - 121	0	40
Fluorene	20.0	21.9		ug/L		110	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	22.6		ug/L		113	1 - 151	3	60
Naphthalene	20.0	18.4		ug/L		92	36 - 120	4	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 570-614874/3-A

Matrix: Water

Analysis Batch: 615967

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	21.2		ug/L		106	65 - 120	2	24
Pyrene	20.0	24.6	*+	ug/L		123	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	72		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	49		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

Lab Sample ID: 380-167051-A-1-A MS

Matrix: Water

Analysis Batch: 615967

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	19.6		ug/L		102	36 - 120
2-Methylnaphthalene	<0.19		19.2	19.1		ug/L		100	32 - 124
Acenaphthene	<0.19		19.2	22.0		ug/L		114	47 - 145
Acenaphthylene	<0.19		19.2	22.8		ug/L		119	33 - 145
Anthracene	<0.19		19.2	22.2		ug/L		116	27 - 133
Benzo[a]anthracene	<0.19		19.2	23.8		ug/L		124	33 - 143
Benzo[a]pyrene	<0.19		19.2	22.9		ug/L		119	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	22.8		ug/L		119	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	22.6		ug/L		118	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	21.4		ug/L		112	11 - 162
Chrysene	<0.19		19.2	22.9		ug/L		119	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	23.1		ug/L		120	1 - 227
Fluoranthene	<0.19		19.2	22.6		ug/L		118	26 - 137
Fluorene	<0.19		19.2	22.7		ug/L		119	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	22.0		ug/L		115	1 - 171
Naphthalene	<0.19		19.2	18.6		ug/L		97	21 - 133
Phenanthrene	<0.19		19.2	22.0		ug/L		115	54 - 120
Pyrene	<0.19	*+ F1	19.2	25.3	F1	ug/L		132	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	72		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	47		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: 380-167051-A-1-B MSD

Matrix: Water

Analysis Batch: 615967

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	19.2		ug/L		101	36 - 120	2	30
2-Methylnaphthalene	<0.19		19.1	18.7		ug/L		98	32 - 124	2	30
Acenaphthene	<0.19		19.1	21.4		ug/L		113	47 - 145	2	48
Acenaphthylene	<0.19		19.1	22.2		ug/L		117	33 - 145	2	74
Anthracene	<0.19		19.1	21.1		ug/L		111	27 - 133	5	66
Benzo[a]anthracene	<0.19		19.1	22.6		ug/L		119	33 - 143	5	53
Benzo[a]pyrene	<0.19		19.1	21.2		ug/L		111	17 - 163	8	72
Benzo[b]fluoranthene	<0.19		19.1	21.4		ug/L		112	24 - 159	6	71
Benzo[g,h,i]perylene	<0.19		19.1	20.5		ug/L		108	1 - 219	9	97
Benzo[k]fluoranthene	<0.19		19.1	20.1		ug/L		105	11 - 162	7	63
Chrysene	<0.19		19.1	21.4		ug/L		112	17 - 168	7	87
Dibenz(a,h)anthracene	<0.19		19.1	21.3		ug/L		112	1 - 227	8	126
Fluoranthene	<0.19		19.1	21.7		ug/L		114	26 - 137	4	66
Fluorene	<0.19		19.1	22.2		ug/L		116	59 - 121	3	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	20.4		ug/L		107	1 - 171	8	99
Naphthalene	<0.19		19.1	18.2		ug/L		96	21 - 133	2	65
Phenanthrene	<0.19		19.1	21.1		ug/L		111	54 - 120	4	39
Pyrene	<0.19	*+ F1	19.1	24.5	F1	ug/L		128	52 - 120	3	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	71		17 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d6 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

Lab Sample ID: MB 570-616282/1-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 616282

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/25/25 09:50	08/26/25 23:57	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/25/25 09:50	08/26/25 23:57	1
C8-C18	<25		25	ug/L		08/25/25 09:50	08/26/25 23:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130	08/25/25 09:50	08/26/25 23:57	1

Lab Sample ID: LCS 570-616282/2-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 616282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1710		ug/L		107	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 570-616282/2-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 616282

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	115		60 - 130

Lab Sample ID: LCSD 570-616282/3-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 616282

			Spike	LCSD	LCSD					%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28			1600	1560		ug/L		97	56 - 127	9	23	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	113		60 - 130

Lab Sample ID: MRL 570-616282/4-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 616282

			Spike	MRL	MRL					%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits			
C10-C28			0.0200	0.0284		mg/L		142	50 - 150			

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	101		60 - 130

Lab Sample ID: 380-167051-B-1-A MS

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 616282

	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
C10-C28	<25		1630	1710		ug/L		105	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	112		60 - 130

Lab Sample ID: 380-167051-B-1-B MSD

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 616282

	Sample	Sample	Spike	MSD	MSD					%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<25		1650	1770		ug/L		107	70 - 130	3	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	112		60 - 130

QC Association Summary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

GC/MS Semi VOA

Prep Batch: 169534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
MB 380-169534/17-A	Method Blank	Total/NA	Water	525.2	
LCS 380-169534/19-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-169534/18-A	Lab Control Sample	Total/NA	Water	525.2	
380-166906-AP-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-166900-AP-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 169713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	169534
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	169534
MB 380-169534/17-A	Method Blank	Total/NA	Water	525.2	169534
LCS 380-169534/19-A	Lab Control Sample	Total/NA	Water	525.2	169534
MRL 380-169534/18-A	Lab Control Sample	Total/NA	Water	525.2	169534
380-166906-AP-1-A MS	Matrix Spike	Total/NA	Water	525.2	169534
380-166900-AP-1-A DU	Duplicate	Total/NA	Water	525.2	169534

Prep Batch: 614874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	
MB 570-614874/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-614874/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-614874/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-167051-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-167051-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 615967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-614874/1-A	Method Blank	Total/NA	Water	625.1 SIM	614874
LCS 570-614874/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	614874
LCSD 570-614874/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	614874
380-167051-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	614874
380-167051-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	614874

Analysis Batch: 616007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1 SIM	614874

Analysis Batch: 617703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	614874
MB 570-614874/1-A	Method Blank	Total/NA	Water	625.1	614874

GC Semi VOA

Prep Batch: 616282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-1	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	3510C	
MB 570-616282/1-A	Method Blank	Total/NA	Water	3510C	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

GC Semi VOA (Continued)

Prep Batch: 616282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-616282/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-616282/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-616282/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-167051-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-167051-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 617326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167047-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	616282
380-167047-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B	616282
MB 570-616282/1-A	Method Blank	Total/NA	Water	8015B	616282
LCS 570-616282/2-A	Lab Control Sample	Total/NA	Water	8015B	616282
LCSD 570-616282/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	616282
MRL 570-616282/4-A	Lab Control Sample	Total/NA	Water	8015B	616282
380-167051-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	616282
380-167051-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	616282

Lab Chronicle

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-167047-1

Date Collected: 08/18/25 11:49

Matrix: Water

Date Received: 08/20/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			169534	KRD3	EA POM	08/20/25 14:05
Total/NA	Analysis	525.2		1	169713	UPAC	EA POM	08/21/25 13:16
Total/NA	Prep	3510C			616282	TVD6	EET CAL 4	08/25/25 09:51
Total/NA	Analysis	8015B		1	617326	H6FE	EET CAL 4	08/27/25 03:10

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-167047-3

Date Collected: 08/18/25 12:33

Matrix: Water

Date Received: 08/20/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			169534	KRD3	EA POM	08/20/25 14:05
Total/NA	Analysis	525.2		1	169713	UPAC	EA POM	08/21/25 13:36
Total/NA	Prep	625.1			614874	OAJ3	EET CAL 4	08/21/25 12:17
Total/NA	Analysis	625.1		1	617703	AX7Z	EET CAL 4	08/28/25 00:31
Total/NA	Prep	625.1			614874	OAJ3	EET CAL 4	08/21/25 12:17
Total/NA	Analysis	625.1 SIM		1	616007	PQS1	EET CAL 4	08/24/25 20:29
Total/NA	Prep	3510C			616282	TVD6	EET CAL 4	08/25/25 09:51
Total/NA	Analysis	8015B		1	617326	H6FE	EET CAL 4	08/27/25 07:51

Laboratory References:

EA POM = Eurofins Eaton Analytical 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: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Laboratory: Eurofins Eaton Analytical 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	Terbutylazine
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	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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
California	State	3082	07-31-26
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	10-11-25

Method Summary

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

Job ID: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

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	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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 Eaton Analytical 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: 380-167047-1
SDG: Weekly: Ka'amila Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-167047-1	Ka'amilo Wells Pump 1	Water	08/18/25 11:49	08/20/25 10:00	Hawaii
380-167047-3	Ka'amilo Wells Pump 2	Water	08/18/25 12:33	08/20/25 10:00	Hawaii

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End

167047



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-167047-1

SDG Number: Weekly: Ka'amila Wells Pump 1/Pump 2

Login Number: 167047

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical 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	
CIO4 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: 380-167047-1

SDG Number: Weekly: Ka'amila Wells Pump 1/Pump 2

Login Number: 167047

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/20/25 06:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	