

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

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

JOB NUMBER

380-175894-1

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: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Qualifiers

GC/MS 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.

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

Glossary

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

Case Narrative

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

Job ID: 380-175894-1

Job ID: 380-175894-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-175894-1

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 10/9/2025 10:20 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 3.8°C.

GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-639637.

Method 625.1: Surrogate recovery for the following sample was outside acceptance limits: Ka'amilo Wells Pump 1 (380-175894-1). The results have been reported per client/PM request.

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

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-639637.

Method 625.1_SIM: The surrogates for preparation batch 570-639637 and analytical batch 570-644216 recovered outside control limits. The HT has expired, therefore no re-extraction. The data has been reported per PM/Client request.

Due to these QC failures Analysis of 625.1 and 625.1_SIM for Ka'amilo Wells Pump 1 (380-175894-1) was canceled. The sample is collected weekly thus follow up sample was collected on 10/13/25 under job # 380-177185-1. Analysis of 625.1 and 625.1_SIM is currently in progress.

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

Method 8015B_DRO_LL_CS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-639254. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-639254 and analytical batch 570-644132 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

Eurofins Eaton Analytical Pomona

Detection Summary

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-175894-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.069		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.010		0.0098	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-175894-2

No Detections.

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-175894-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.060		0.0098	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-175894-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-175894-1

Date Collected: 10/07/25 11:15

Matrix: Water

Date Received: 10/09/25 10:20

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		10/10/25 13:49	10/13/25 13:37	1
2,4'-DDD	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
2,4'-DDE	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
2,4'-DDT	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
4,4'-DDD	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
4,4'-DDE	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
4,4'-DDT	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Acenaphthene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Acenaphthylene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Acetochlor	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Alachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
alpha-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
alpha-Chlordane	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Anthracene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:37	1
Atrazine	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:37	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:37	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:37	1
beta-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/10/25 13:49	10/13/25 13:37	1
Bromacil	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Butachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:37	1
Chlorobenzilate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Chloroneb	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Chlorpyrifos	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Chrysene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:37	1
delta-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/10/25 13:49	10/13/25 13:37	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Dieldrin	0.069		0.0098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Diethylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:37	1
Dimethylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:37	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/10/25 13:49	10/13/25 13:37	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Endrin	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Endrin aldehyde	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
EPTC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Fluoranthene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1

Client Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-175894-1

Date Collected: 10/07/25 11:15

Matrix: Water

Date Received: 10/09/25 10:20

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		10/10/25 13:49	10/13/25 13:37	1
gamma-Chlordane	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Heptachlor	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Heptachlor epoxide (isomer B)	0.010		0.0098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Isophorone	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Lindane	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Malathion	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Methoxychlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Metolachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Molinate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Naphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Parathion	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Phenanthrene	<0.039		0.039	ug/L		10/10/25 13:49	10/13/25 13:37	1
Propachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Pyrene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Simazine	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Terbacil	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Terbutylazine	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Thiobencarb	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/10/25 13:49	10/13/25 13:37	1
trans-Nonachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:37	1
Trifluralin	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/10/25 13:49	10/13/25 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	10/10/25 13:49	10/13/25 13:37	1
Perylene-d12	84		70 - 130	10/10/25 13:49	10/13/25 13:37	1
Triphenylphosphate	97		70 - 130	10/10/25 13:49	10/13/25 13:37	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			10/19/25 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134		10/19/25 13:52	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		10/12/25 11:08	10/22/25 00:06	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/12/25 11:08	10/22/25 00:06	1
C8-C18	<25		25	ug/L		10/12/25 11:08	10/22/25 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		60 - 130	10/12/25 11:08	10/22/25 00:06	1

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Client Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-175894-2

Date Collected: 10/07/25 11:15

Matrix: Water

Date Received: 10/09/25 10:20

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			10/19/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134				10/19/25 18:41	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-175894-3

Date Collected: 10/07/25 12:15

Matrix: Water

Date Received: 10/09/25 10:20

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		10/10/25 13:49	10/13/25 13:57	1
2,4'-DDD	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
2,4'-DDE	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
2,4'-DDT	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
4,4'-DDD	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
4,4'-DDE	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
4,4'-DDT	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Acenaphthene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Acenaphthylene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Acetochlor	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Alachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
alpha-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
alpha-Chlordane	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Anthracene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:57	1
Atrazine	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:57	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:57	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:57	1
beta-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/10/25 13:49	10/13/25 13:57	1
Bromacil	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Butachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:57	1
Chlorobenzilate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Chloroneb	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Chlorpyrifos	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Chrysene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:57	1
delta-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/10/25 13:49	10/13/25 13:57	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Dieldrin	0.060		0.0098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Diethylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:57	1

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Client Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-175894-3

Date Collected: 10/07/25 12:15

Matrix: Water

Date Received: 10/09/25 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:57	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/10/25 13:49	10/13/25 13:57	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Endrin	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Endrin aldehyde	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
EPTC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Fluoranthene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Fluorene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
gamma-Chlordane	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Heptachlor	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Isophorone	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Lindane	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Malathion	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Methoxychlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Metolachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Molinate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Naphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Parathion	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Phenanthrene	<0.039		0.039	ug/L		10/10/25 13:49	10/13/25 13:57	1
Propachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Pyrene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Simazine	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Terbacil	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Terbutylazine	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Thiobencarb	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/10/25 13:49	10/13/25 13:57	1
trans-Nonachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:57	1
Trifluralin	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/10/25 13:49	10/13/25 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	10/10/25 13:49	10/13/25 13:57	1
Perylene-d12	87		70 - 130	10/10/25 13:49	10/13/25 13:57	1
Triphenylphosphate	96		70 - 130	10/10/25 13:49	10/13/25 13:57	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		10/13/25 13:14	10/22/25 09:16	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Acenaphthene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1

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Client Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-175894-3

Date Collected: 10/07/25 12:15

Matrix: Water

Date Received: 10/09/25 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Anthracene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Chrysene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Fluoranthene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Fluorene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Naphthalene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Phenanthrene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Pyrene	<0.19		0.19	ug/L		10/13/25 13:14	10/22/25 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		28 - 127			10/13/25 13:14	10/22/25 09:16	1
2-Fluorobiphenyl (Surr)	83		31 - 120			10/13/25 13:14	10/22/25 09:16	1
2-Fluorophenol (Surr)	52		17 - 120			10/13/25 13:14	10/22/25 09:16	1
Nitrobenzene-d5 (Surr)	85		27 - 120			10/13/25 13:14	10/22/25 09:16	1
Phenol-d6 (Surr)	32		10 - 120			10/13/25 13:14	10/22/25 09:16	1
p-Terphenyl-d14 (Surr)	84		45 - 120			10/13/25 13:14	10/22/25 09:16	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	10/13/25 13:14	10/22/25 10:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		33 - 139				10/13/25 13:14	10/22/25 10:48	1
2-Fluorobiphenyl (Surr)	91		33 - 126				10/13/25 13:14	10/22/25 10:48	1
2-Fluorophenol (Surr)	57		12 - 120				10/13/25 13:14	10/22/25 10:48	1
Nitrobenzene-d5 (Surr)	96		36 - 120				10/13/25 13:14	10/22/25 10:48	1
Phenol-d6 (Surr)	35		10 - 120				10/13/25 13:14	10/22/25 10:48	1
p-Terphenyl-d14 (Surr)	97		47 - 131				10/13/25 13:14	10/22/25 10:48	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			10/19/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		38 - 134				10/19/25 14:12	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		10/12/25 11:08	10/22/25 00:27	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/12/25 11:08	10/22/25 00:27	1
C8-C18	<25		25	ug/L		10/12/25 11:08	10/22/25 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130			10/12/25 11:08	10/22/25 00:27	1

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Client Sample Results

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

Job ID: 380-175894-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-175894-4

Date Collected: 10/07/25 12:15

Matrix: Water

Date Received: 10/09/25 10:20

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			10/19/25 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134				10/19/25 19:01	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Action Limit Summary

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-175894-1

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)	0.010		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: 380-175894-3

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)	<0.0098		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: 380-175894-1
SDG: Weekly: Ka'amilo 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)
380-175894-1	Ka'amilo Wells Pump 1	99	84	97
380-175894-1 MS	Ka'amilo Wells Pump 1	97	94	98
380-175894-3	Ka'amilo Wells Pump 2	97	87	96
380-175894-3 DU	Ka'amilo Wells Pump 2	98	87	96
LCS 380-179095/21-A	Lab Control Sample	96	95	100
LCSD 380-179095/22-A	Lab Control Sample Dup	98	94	103
MB 380-179095/19-A	Method Blank	99	86	99
MRL 380-179095/20-A	Lab Control Sample	98	88	96

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)
380-175894-3	Ka'amilo Wells Pump 2	93	91	57	96	35	97
MB 570-639637/1-A	Method Blank	91	87	61	89	37	99

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)
380-175894-3	Ka'amilo Wells Pump 2	89	83	52	85	32	84
LCS 570-639637/2-A	Lab Control Sample	69	73	54	65	36	74
LCSD 570-639637/3-A	Lab Control Sample Dup	67	69	50	62	33	70
MB 570-639637/1-A	Method Blank	65	63	45	69	29	66

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: 380-175894-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-175894-1	Ka'amilo Wells Pump 1	94
380-175894-2	TB: Ka'amilo Wells Pump 1	91
380-175894-3	Ka'amilo Wells Pump 2	92
380-175894-4	TB: Ka'amilo Wells Pump 2	91
380-177173-B-1 MS	Matrix Spike	91
380-177173-B-1 MSD	Matrix Spike Duplicate	94
LCS 570-642768/4	Lab Control Sample	95
LCSD 570-642768/5	Lab Control Sample Dup	93
MB 570-642768/6	Method Blank	91
MRL 570-642768/3	Lab Control Sample	92

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)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-175894-1	Ka'amilo Wells Pump 1	119
380-175894-3	Ka'amilo Wells Pump 2	112
LCS 570-639254/2-A	Lab Control Sample	119
LCSD 570-639254/3-A	Lab Control Sample Dup	111
MB 570-639254/1-A	Method Blank	117
MRL 570-639254/4-A	Lab Control Sample	118

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-175894-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-179095/19-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179095

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
2,4'-DDD	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
2,4'-DDE	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
2,4'-DDT	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
4,4'-DDD	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
4,4'-DDE	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
4,4'-DDT	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Acenaphthene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Acenaphthylene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Acetochlor	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Alachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
alpha-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
alpha-Chlordane	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Anthracene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:17	1
Atrazine	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:17	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:17	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:17	1
beta-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/10/25 13:49	10/13/25 13:17	1
Bromacil	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Butachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:17	1
Chlorobenzilate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Chloroneb	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Chlorpyrifos	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Chrysene	<0.020		0.020	ug/L		10/10/25 13:49	10/13/25 13:17	1
delta-BHC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/10/25 13:49	10/13/25 13:17	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Dieldrin	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Diethylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:17	1
Dimethylphthalate	<0.49		0.49	ug/L		10/10/25 13:49	10/13/25 13:17	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/10/25 13:49	10/13/25 13:17	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Endrin	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Endrin aldehyde	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
EPTC	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-179095/19-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179095

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Fluorene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
gamma-Chlordane	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Heptachlor	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Isophorone	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Lindane	<0.0098		0.0098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Malathion	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Methoxychlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Metolachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Molinate	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Naphthalene	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Parathion	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Phenanthrene	<0.039		0.039	ug/L		10/10/25 13:49	10/13/25 13:17	1
Propachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Pyrene	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Simazine	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Terbacil	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Terbutylazine	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Thiobencarb	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/10/25 13:49	10/13/25 13:17	1
trans-Nonachlor	<0.049		0.049	ug/L		10/10/25 13:49	10/13/25 13:17	1
Trifluralin	<0.098		0.098	ug/L		10/10/25 13:49	10/13/25 13:17	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Cyclohexasiloxane, dodecamethyl-</i>	0.839	T J N	ug/L		3.89	540-97-6	10/10/25 13:49	10/13/25 13:17	1
<i>Phenol, 4-(1,1-dimethylpropyl)-</i>	0.542	T J N	ug/L		4.27	80-46-6	10/10/25 13:49	10/13/25 13:17	1
<i>9-Octadecenamamide, (Z)-</i>	1.64	T J N	ug/L		7.90	301-02-0	10/10/25 13:49	10/13/25 13:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	10/10/25 13:49	10/13/25 13:17	1
Perylene-d12	86		70 - 130	10/10/25 13:49	10/13/25 13:17	1
Triphenylphosphate	99		70 - 130	10/10/25 13:49	10/13/25 13:17	1

Lab Sample ID: LCS 380-179095/21-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	1.82		ug/L		93	70 - 130
2,4'-DDD	1.96	1.95		ug/L		100	70 - 130
2,4'-DDE	1.96	1.97		ug/L		101	70 - 130
2,4'-DDT	1.96	1.95		ug/L		100	70 - 130
2,4-Dinitrotoluene	1.96	1.82		ug/L		93	70 - 130

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QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-179095/21-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	1.96	1.87		ug/L		96	70 - 130
2-Methylnaphthalene	1.96	1.85		ug/L		94	70 - 130
4,4'-DDD	1.96	1.98		ug/L		101	70 - 130
4,4'-DDE	1.96	1.98		ug/L		101	70 - 130
4,4'-DDT	1.96	1.76		ug/L		90	70 - 130
Acenaphthene	1.96	1.96		ug/L		100	70 - 130
Acenaphthylene	1.96	1.89		ug/L		97	70 - 130
Acetochlor	1.96	2.06		ug/L		106	70 - 130
Alachlor	1.96	2.07		ug/L		106	70 - 130
alpha-BHC	1.96	1.98		ug/L		102	70 - 130
alpha-Chlordane	1.96	1.94		ug/L		99	70 - 130
Anthracene	1.96	1.95		ug/L		100	70 - 130
Atrazine	1.96	2.04		ug/L		104	70 - 130
Benz(a)anthracene	1.96	1.78		ug/L		91	70 - 130
Benzo[a]pyrene	1.96	1.91		ug/L		98	70 - 130
Benzo[b]fluoranthene	1.96	1.95		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.96	1.96		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.96	1.95		ug/L		100	70 - 130
beta-BHC	1.96	1.93		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	2.10		ug/L		108	70 - 130
Bromacil	1.96	2.02		ug/L		103	70 - 130
Butachlor	1.96	2.00		ug/L		102	70 - 130
Butylbenzylphthalate	1.96	2.13		ug/L		109	70 - 130
Chlorobenzilate	1.96	2.07		ug/L		106	70 - 130
Chloroneb	1.96	1.90		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	1.98		ug/L		101	70 - 130
Chlorpyrifos	1.96	2.03		ug/L		104	70 - 130
Chrysene	1.96	1.83		ug/L		94	70 - 130
delta-BHC	1.96	1.95		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.19		ug/L		112	70 - 130
Dibenz(a,h)anthracene	1.96	1.97		ug/L		101	70 - 130
Diclorvos (DDVP)	1.96	1.97		ug/L		101	70 - 130
Dieldrin	1.96	1.85		ug/L		95	70 - 130
Diethylphthalate	1.96	2.09		ug/L		107	70 - 130
Dimethylphthalate	1.96	2.05		ug/L		105	70 - 130
Di-n-butyl phthalate	3.91	4.35		ug/L		111	70 - 130
Di-n-octyl phthalate	1.96	2.08		ug/L		107	70 - 130
Endosulfan I (Alpha)	1.96	1.91		ug/L		97	70 - 130
Endosulfan II (Beta)	1.96	1.99		ug/L		102	70 - 130
Endosulfan sulfate	1.96	1.95		ug/L		100	70 - 130
Endrin	1.96	1.89		ug/L		97	70 - 130
Endrin aldehyde	1.96	1.87		ug/L		96	60 - 130
EPTC	1.96	2.07		ug/L		106	70 - 130
Fluoranthene	1.96	2.05		ug/L		105	70 - 130
Fluorene	1.96	1.96		ug/L		100	70 - 130
gamma-Chlordane	1.96	1.96		ug/L		100	70 - 130
Heptachlor	1.96	1.90		ug/L		97	70 - 130
Heptachlor epoxide (isomer B)	1.96	2.02		ug/L		104	70 - 130
Hexachlorobenzene	1.96	2.00		ug/L		102	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-179095/21-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.96	1.75		ug/L		90	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	1.94		ug/L		99	70 - 130
Isophorone	1.96	2.00		ug/L		102	70 - 130
Lindane	1.96	1.92		ug/L		98	70 - 130
Malathion	1.96	1.99		ug/L		102	70 - 130
Methoxychlor	1.96	1.90		ug/L		97	70 - 130
Metolachlor	1.96	2.02		ug/L		103	70 - 130
Molinate	1.96	2.07		ug/L		106	70 - 130
Naphthalene	1.96	1.86		ug/L		95	70 - 130
Parathion	1.96	2.03		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	1.96	1.78		ug/L		91	70 - 130
Phenanthrene	1.96	1.92		ug/L		98	70 - 130
Propachlor	1.96	2.11		ug/L		108	70 - 130
Pyrene	1.96	2.02		ug/L		103	70 - 130
Simazine	1.96	2.03		ug/L		104	70 - 130
Terbacil	1.96	2.00		ug/L		102	70 - 130
Terbutylazine	1.96	2.12		ug/L		108	70 - 130
Thiobencarb	1.96	2.11		ug/L		108	70 - 130
trans-Nonachlor	1.96	1.86		ug/L		95	70 - 130
Trifluralin	1.96	1.80		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: LCSD 380-179095/22-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	1.88		ug/L		95	70 - 130	3	20
2,4'-DDD	1.97	2.00		ug/L		102	70 - 130	3	20
2,4'-DDE	1.97	2.03		ug/L		103	70 - 130	3	20
2,4'-DDT	1.97	1.99		ug/L		101	70 - 130	2	20
2,4-Dinitrotoluene	1.97	1.91		ug/L		97	70 - 130	5	20
2,6-Dinitrotoluene	1.97	1.95		ug/L		99	70 - 130	4	20
2-Methylnaphthalene	1.97	1.89		ug/L		96	70 - 130	2	20
4,4'-DDD	1.97	2.02		ug/L		103	70 - 130	2	20
4,4'-DDE	1.97	2.04		ug/L		104	70 - 130	3	20
4,4'-DDT	1.97	1.79		ug/L		91	70 - 130	2	20
Acenaphthene	1.97	1.98		ug/L		100	70 - 130	1	20
Acenaphthylene	1.97	1.92		ug/L		98	70 - 130	2	20
Acetochlor	1.97	2.15		ug/L		109	70 - 130	4	20
Alachlor	1.97	2.15		ug/L		109	70 - 130	4	20
alpha-BHC	1.97	2.04		ug/L		104	70 - 130	3	20
alpha-Chlordane	1.97	1.99		ug/L		101	70 - 130	3	20
Anthracene	1.97	1.97		ug/L		100	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-179095/22-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Atrazine	1.97	2.09		ug/L		106	70 - 130	2	20
Benz(a)anthracene	1.97	1.82		ug/L		93	70 - 130	2	20
Benzo[a]pyrene	1.97	1.91		ug/L		97	70 - 130	0	20
Benzo[b]fluoranthene	1.97	2.01		ug/L		102	70 - 130	3	20
Benzo[g,h,i]perylene	1.97	1.99		ug/L		101	70 - 130	1	20
Benzo[k]fluoranthene	1.97	1.89		ug/L		96	70 - 130	3	20
beta-BHC	1.97	1.98		ug/L		101	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.97	2.10		ug/L		107	70 - 130	0	20
Bromacil	1.97	2.11		ug/L		107	70 - 130	4	20
Butachlor	1.97	2.08		ug/L		106	70 - 130	4	20
Butylbenzylphthalate	1.97	2.17		ug/L		110	70 - 130	2	20
Chlorobenzilate	1.97	2.13		ug/L		108	70 - 130	3	20
Chloroneb	1.97	1.91		ug/L		97	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.97	2.09		ug/L		106	70 - 130	5	20
Chlorpyrifos	1.97	2.07		ug/L		105	70 - 130	2	20
Chrysene	1.97	1.92		ug/L		97	70 - 130	5	20
delta-BHC	1.97	1.97		ug/L		100	70 - 130	1	20
Di(2-ethylhexyl)adipate	1.97	2.23		ug/L		113	70 - 130	2	20
Dibenz(a,h)anthracene	1.97	1.98		ug/L		100	70 - 130	1	20
Diclorvos (DDVP)	1.97	2.04		ug/L		103	70 - 130	3	20
Dieldrin	1.97	1.94		ug/L		99	70 - 130	5	20
Diethylphthalate	1.97	2.15		ug/L		109	70 - 130	3	20
Dimethylphthalate	1.97	2.10		ug/L		107	70 - 130	2	20
Di-n-butyl phthalate	3.94	4.43		ug/L		112	70 - 130	2	20
Di-n-octyl phthalate	1.97	2.16		ug/L		110	70 - 130	4	20
Endosulfan I (Alpha)	1.97	1.96		ug/L		99	70 - 130	3	20
Endosulfan II (Beta)	1.97	2.03		ug/L		103	70 - 130	2	20
Endosulfan sulfate	1.97	2.00		ug/L		102	70 - 130	2	20
Endrin	1.97	1.97		ug/L		100	70 - 130	4	20
Endrin aldehyde	1.97	1.91		ug/L		97	60 - 130	2	20
EPTC	1.97	2.11		ug/L		107	70 - 130	2	20
Fluoranthene	1.97	2.09		ug/L		106	70 - 130	2	20
Fluorene	1.97	1.99		ug/L		101	70 - 130	2	20
gamma-Chlordane	1.97	2.01		ug/L		102	70 - 130	2	20
Heptachlor	1.97	1.97		ug/L		100	70 - 130	3	20
Heptachlor epoxide (isomer B)	1.97	2.10		ug/L		107	70 - 130	4	20
Hexachlorobenzene	1.97	2.03		ug/L		103	70 - 130	1	20
Hexachlorocyclopentadiene	1.97	1.82		ug/L		92	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	1.97	2.01		ug/L		102	70 - 130	3	20
Isophorone	1.97	2.07		ug/L		105	70 - 130	4	20
Lindane	1.97	1.95		ug/L		99	70 - 130	2	20
Malathion	1.97	2.06		ug/L		104	70 - 130	3	20
Methoxychlor	1.97	1.97		ug/L		100	70 - 130	4	20
Metolachlor	1.97	2.06		ug/L		105	70 - 130	2	20
Molinate	1.97	2.13		ug/L		108	70 - 130	2	20
Naphthalene	1.97	1.88		ug/L		95	70 - 130	1	20
Parathion	1.97	2.13		ug/L		108	70 - 130	5	20
Pendimethalin (Penoxaline)	1.97	1.87		ug/L		95	70 - 130	5	20
Phenanthrene	1.97	1.94		ug/L		98	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-179095/22-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propachlor	1.97	2.20		ug/L		112	70 - 130	4	20
Pyrene	1.97	2.05		ug/L		104	70 - 130	2	20
Simazine	1.97	2.07		ug/L		105	70 - 130	2	20
Terbacil	1.97	2.03		ug/L		103	70 - 130	2	20
Terbutylazine	1.97	2.19		ug/L		111	70 - 130	3	20
Thiobencarb	1.97	2.20		ug/L		112	70 - 130	4	20
trans-Nonachlor	1.97	1.92		ug/L		98	70 - 130	3	20
Trifluralin	1.97	1.88		ug/L		95	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: MRL 380-179095/20-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.109		ug/L		111	50 - 150
2,4'-DDD	0.0983	0.0805	J	ug/L		82	50 - 150
2,4'-DDE	0.0983	0.0918	J	ug/L		93	50 - 150
2,4'-DDT	0.0983	0.0827	J	ug/L		84	50 - 150
2,4-Dinitrotoluene	0.0983	0.0913	J	ug/L		93	50 - 150
2,6-Dinitrotoluene	0.0983	0.107		ug/L		109	50 - 150
2-Methylnaphthalene	0.0983	0.102		ug/L		104	50 - 150
4,4'-DDD	0.0983	0.0861	J	ug/L		88	50 - 150
4,4'-DDE	0.0983	0.0780	J	ug/L		79	50 - 150
4,4'-DDT	0.0983	0.104		ug/L		106	50 - 150
Acenaphthene	0.0983	0.0872	J	ug/L		89	50 - 150
Acenaphthylene	0.0983	0.0888	J	ug/L		90	50 - 150
Acetochlor	0.0983	0.0988		ug/L		101	50 - 150
Alachlor	0.0491	0.0466	J	ug/L		95	50 - 150
alpha-BHC	0.0983	0.0967	J	ug/L		98	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		92	50 - 150
Anthracene	0.0197	0.0197	J	ug/L		100	50 - 150
Atrazine	0.0491	<0.047		ug/L		94	50 - 150
Benz(a)anthracene	0.0491	0.0490		ug/L		100	50 - 150
Benzo[a]pyrene	0.0197	0.0228		ug/L		116	50 - 150
Benzo[b]fluoranthene	0.0197	0.0227		ug/L		115	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0455	J	ug/L		93	50 - 150
Benzo[k]fluoranthene	0.0197	0.0193	J	ug/L		98	50 - 150
beta-BHC	0.0983	0.101		ug/L		102	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.567	J	ug/L		96	50 - 150
Bromacil	0.0983	0.110		ug/L		112	50 - 150
Butachlor	0.0491	0.0542		ug/L		110	50 - 150
Butylbenzylphthalate	0.491	0.526		ug/L		107	50 - 150
Chlorobenzilate	0.0983	0.0908	J	ug/L		92	50 - 150

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-179095/20-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloroneb	0.0983	0.103		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.0743	J	ug/L		76	50 - 150
Chlorpyrifos	0.0491	0.0408	J	ug/L		83	50 - 150
Chrysene	0.0197	0.0228		ug/L		116	50 - 150
delta-BHC	0.0983	0.0884	J	ug/L		90	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.638		ug/L		108	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0445	J	ug/L		91	50 - 150
Diclorvos (DDVP)	0.0491	0.0573		ug/L		117	50 - 150
Dieldrin	0.00983	0.0102		ug/L		104	50 - 150
Diethylphthalate	0.491	0.523		ug/L		106	50 - 150
Dimethylphthalate	0.491	0.505		ug/L		103	50 - 150
Di-n-butyl phthalate	0.491	0.560	J	ug/L		114	49 - 243
Di-n-octyl phthalate	0.0983	0.0873	J	ug/L		89	50 - 150
Endosulfan I (Alpha)	0.0983	0.0979	J	ug/L		100	50 - 150
Endosulfan II (Beta)	0.0983	0.0942	J	ug/L		96	50 - 150
Endosulfan sulfate	0.0983	0.0854	J	ug/L		87	50 - 150
Endrin	0.00983	0.0112		ug/L		114	50 - 150
Endrin aldehyde	0.0983	0.0965	J	ug/L		98	50 - 150
EPTC	0.0983	0.0987		ug/L		100	50 - 150
Fluoranthene	0.0983	0.0943	J	ug/L		96	50 - 150
Fluorene	0.0491	0.0491		ug/L		100	50 - 150
gamma-Chlordane	0.0246	0.0236	J	ug/L		96	50 - 150
Heptachlor	0.00983	0.00843	J	ug/L		86	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.00952	J	ug/L		97	50 - 150
Hexachlorobenzene	0.0491	0.0439	J	ug/L		89	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0411	J	ug/L		84	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0455	J	ug/L		93	50 - 150
Isophorone	0.0983	0.117		ug/L		119	50 - 150
Lindane	0.00983	0.00943	J	ug/L		96	50 - 150
Malathion	0.0983	0.0910	J	ug/L		93	50 - 150
Methoxychlor	0.0491	0.0498		ug/L		101	50 - 150
Metolachlor	0.0491	0.0554		ug/L		113	50 - 150
Molinate	0.0983	0.101		ug/L		102	50 - 150
Naphthalene	0.0983	0.0974	J	ug/L		99	50 - 150
Parathion	0.0983	0.0808	J	ug/L		82	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.0811	J	ug/L		83	50 - 150
Phenanthrene	0.0393	0.0369	J	ug/L		94	50 - 150
Propachlor	0.0491	0.0508		ug/L		103	50 - 150
Pyrene	0.0491	0.0462	J	ug/L		94	50 - 150
Simazine	0.0491	0.0418	J	ug/L		85	50 - 150
Terbacil	0.0983	0.106		ug/L		108	50 - 150
Terbutylazine	0.0983	0.0970	J	ug/L		99	50 - 150
Thiobencarb	0.0983	0.0967	J	ug/L		98	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		100	50 - 150
Trifluralin	0.0983	0.0890	J	ug/L		91	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-179095/20-A
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179095

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Perylene-d12	88		70 - 130
Triphenylphosphate	96		70 - 130

Lab Sample ID: 380-175894-1 MS
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	1.85		ug/L		94	70 - 130
2,4'-DDD	<0.098		1.96	1.90		ug/L		97	70 - 130
2,4'-DDE	<0.098		1.96	1.92		ug/L		98	70 - 130
2,4'-DDT	<0.098		1.96	1.92		ug/L		98	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.88		ug/L		96	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	1.92		ug/L		98	70 - 130
2-Methylnaphthalene	<0.098		1.96	1.87		ug/L		96	70 - 130
4,4'-DDD	<0.098		1.96	1.94		ug/L		99	70 - 130
4,4'-DDE	<0.098		1.96	1.94		ug/L		99	70 - 130
4,4'-DDT	<0.098		1.96	1.74		ug/L		89	70 - 130
Acenaphthene	<0.098		1.96	1.98		ug/L		101	70 - 130
Acenaphthylene	<0.098		1.96	1.88		ug/L		96	70 - 130
Acetochlor	<0.098		1.96	2.05		ug/L		105	70 - 130
Alachlor	<0.049		1.96	2.08		ug/L		106	70 - 130
alpha-BHC	<0.098		1.96	1.99		ug/L		102	70 - 130
alpha-Chlordane	<0.049		1.96	1.93		ug/L		97	70 - 130
Anthracene	<0.020		1.96	1.76		ug/L		90	70 - 130
Atrazine	<0.049		1.96	2.03		ug/L		103	70 - 130
Benz(a)anthracene	<0.049		1.96	1.74		ug/L		89	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.90		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	1.94		ug/L		99	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.93		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	1.97		ug/L		101	70 - 130
beta-BHC	<0.098		1.96	1.97		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	2.10		ug/L		107	70 - 130
Bromacil	<0.098		1.96	2.11		ug/L		106	70 - 130
Butachlor	<0.049		1.96	2.01		ug/L		102	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.11		ug/L		107	70 - 130
Chlorobenzilate	<0.098		1.96	2.09		ug/L		107	70 - 130
Chloroneb	<0.098		1.96	1.90		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	1.97		ug/L		101	70 - 130
Chlorpyrifos	<0.049		1.96	1.99		ug/L		101	70 - 130
Chrysene	<0.020		1.96	1.91		ug/L		97	70 - 130
delta-BHC	<0.098		1.96	1.92		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.16		ug/L		110	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.95		ug/L		100	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.02		ug/L		103	70 - 130
Dieldrin	0.069		1.96	1.94		ug/L		95	70 - 130
Diethylphthalate	<0.49		1.96	2.11		ug/L		108	70 - 130
Dimethylphthalate	<0.49		1.96	2.08		ug/L		106	70 - 130

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-175894-3 DU
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Ka'amilo Wells Pump 2
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDT	<0.098		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.019		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		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.098		<0.097		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		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		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
Dieldrin	0.060		0.0633		ug/L		6	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		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		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		<0.0097		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-175894-3 DU
Matrix: Water
Analysis Batch: 179327

Client Sample ID: Ka'amilo Wells Pump 2
Prep Type: Total/NA
Prep Batch: 179095

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Heptachlor epoxide (isomer B)	<0.0098		0.00991		ug/L		NC	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		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		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		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
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		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.097		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	96		70 - 130

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

Lab Sample ID: MB 570-639637/1-A
Matrix: Water
Analysis Batch: 644278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639637

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	10/13/25 13:14	10/22/25 08:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	91		33 - 139	10/13/25 13:14	10/22/25 08:46	1
2-Fluorobiphenyl (Surr)	87		33 - 126	10/13/25 13:14	10/22/25 08:46	1
2-Fluorophenol (Surr)	61		12 - 120	10/13/25 13:14	10/22/25 08:46	1
Nitrobenzene-d5 (Surr)	89		36 - 120	10/13/25 13:14	10/22/25 08:46	1
Phenol-d6 (Surr)	37		10 - 120	10/13/25 13:14	10/22/25 08:46	1
p-Terphenyl-d14 (Surr)	99		47 - 131	10/13/25 13:14	10/22/25 08:46	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MB 570-639637/1-A
Matrix: Water
Analysis Batch: 640485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639637

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Acenaphthene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Acenaphthylene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Anthracene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Chrysene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Fluoranthene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Fluorene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Naphthalene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Phenanthrene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1
Pyrene	<0.20		0.20	ug/L		10/13/25 13:14	10/15/25 00:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	65		28 - 127	10/13/25 13:14	10/15/25 00:02	1
2-Fluorobiphenyl (Surr)	63		31 - 120	10/13/25 13:14	10/15/25 00:02	1
2-Fluorophenol (Surr)	45		17 - 120	10/13/25 13:14	10/15/25 00:02	1
Nitrobenzene-d5 (Surr)	69		27 - 120	10/13/25 13:14	10/15/25 00:02	1
Phenol-d6 (Surr)	29		10 - 120	10/13/25 13:14	10/15/25 00:02	1
p-Terphenyl-d14 (Surr)	66		45 - 120	10/13/25 13:14	10/15/25 00:02	1

Lab Sample ID: LCS 570-639637/2-A
Matrix: Water
Analysis Batch: 640485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639637

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	12.9		ug/L		65	47 - 120
2-Methylnaphthalene	20.0	12.8		ug/L		64	43 - 120
Acenaphthene	20.0	15.0		ug/L		75	60 - 132
Acenaphthylene	20.0	15.0		ug/L		75	54 - 126
Anthracene	20.0	14.9		ug/L		74	43 - 120
Benzo[a]anthracene	20.0	14.9		ug/L		74	42 - 133
Benzo[a]pyrene	20.0	15.5		ug/L		78	32 - 148
Benzo[b]fluoranthene	20.0	15.5		ug/L		77	42 - 140
Benzo[g,h,i]perylene	20.0	15.0		ug/L		75	1 - 195
Benzo[k]fluoranthene	20.0	15.2		ug/L		76	25 - 146
Chrysene	20.0	15.2		ug/L		76	44 - 140
Dibenz(a,h)anthracene	20.0	15.8		ug/L		79	1 - 200
Fluoranthene	20.0	16.0		ug/L		80	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.3		ug/L		76	1 - 151
Naphthalene	20.0	12.5		ug/L		63	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 570-639637/2-A
Matrix: Water
Analysis Batch: 640485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	15.1		ug/L		75	65 - 120
Pyrene	20.0	15.2		ug/L		76	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	74		45 - 120

Lab Sample ID: LCSD 570-639637/3-A
Matrix: Water
Analysis Batch: 640485

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 639637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1-Methylnaphthalene	20.0	12.4		ug/L		62	47 - 120	4	20
2-Methylnaphthalene	20.0	12.3		ug/L		61	43 - 120	4	20
Acenaphthene	20.0	14.0		ug/L		70	60 - 132	7	29
Acenaphthylene	20.0	14.3		ug/L		72	54 - 126	5	45
Anthracene	20.0	14.0		ug/L		70	43 - 120	6	40
Benzo[a]anthracene	20.0	13.9		ug/L		70	42 - 133	6	32
Benzo[a]pyrene	20.0	14.4		ug/L		72	32 - 148	7	43
Benzo[b]fluoranthene	20.0	14.1		ug/L		71	42 - 140	9	43
Benzo[g,h,i]perylene	20.0	14.1		ug/L		71	1 - 195	6	61
Benzo[k]fluoranthene	20.0	14.4		ug/L		72	25 - 146	5	38
Chrysene	20.0	14.3		ug/L		72	44 - 140	6	53
Dibenz(a,h)anthracene	20.0	14.5		ug/L		73	1 - 200	8	75
Fluoranthene	20.0	15.0		ug/L		75	43 - 121	6	40
Fluorene	20.0	14.6		ug/L		73	70 - 120	5	23
Indeno[1,2,3-cd]pyrene	20.0	14.2		ug/L		71	1 - 151	7	60
Naphthalene	20.0	11.9		ug/L		60	36 - 120	5	39
Phenanthrene	20.0	14.0		ug/L		70	65 - 120	7	24
Pyrene	20.0	14.4		ug/L		72	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	67		28 - 127
2-Fluorobiphenyl (Surr)	69		31 - 120
2-Fluorophenol (Surr)	50		17 - 120
Nitrobenzene-d5 (Surr)	62		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	70		45 - 120

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MB 570-642768/6
Matrix: Water
Analysis Batch: 642768

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (C6-C10)	<10		10	ug/L			10/19/25 12:46	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134					10/19/25 12:46	1

Lab Sample ID: LCS 570-642768/4
Matrix: Water
Analysis Batch: 642768

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	370		ug/L		92	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		38 - 134				

Lab Sample ID: LCSD 570-642768/5
Matrix: Water
Analysis Batch: 642768

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	400	374		ug/L		93	78 - 120	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		38 - 134						

Lab Sample ID: MRL 570-642768/3
Matrix: Water
Analysis Batch: 642768

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	<7.9		ug/L		75	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		38 - 134				

Lab Sample ID: 380-177173-B-1 MS
Matrix: Water
Analysis Batch: 642768

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	363		ug/L		91	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		38 - 134						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-177173-B-1 MSD
Matrix: Water
Analysis Batch: 642768

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	327		ug/L		82	68 - 122	10	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	94		38 - 134								

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

Lab Sample ID: MB 570-639254/1-A
Matrix: Water
Analysis Batch: 644132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639254

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/12/25 11:08	10/21/25 23:01	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/12/25 11:08	10/21/25 23:01	1
C8-C18	<25		25	ug/L		10/12/25 11:08	10/21/25 23:01	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	117		60 - 130	10/12/25 11:08	10/21/25 23:01	1		

Lab Sample ID: LCS 570-639254/2-A
Matrix: Water
Analysis Batch: 644132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1900		ug/L		119	56 - 127		
Surrogate	%Recovery	LCS Qualifier	LCS Limits						
n-Octacosane (Surr)	119		60 - 130						

Lab Sample ID: LCSD 570-639254/3-A
Matrix: Water
Analysis Batch: 644132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 639254

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1810		ug/L		113	56 - 127	5	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	111		60 - 130						

Lab Sample ID: MRL 570-639254/4-A
Matrix: Water
Analysis Batch: 644132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639254

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	0.0200	0.0315	^3+	mg/L		158	50 - 150		

QC Sample Results

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 570-639254/4-A
Matrix: Water
Analysis Batch: 644132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639254

<i>Surrogate</i>	<i>%Recovery</i>	<i>MRL MRL Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	118		60 - 130

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QC Association Summary

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

GC/MS Semi VOA

Prep Batch: 179095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
MB 380-179095/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-179095/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-179095/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-179095/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-175894-1 MS	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-175894-3 DU	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	

Analysis Batch: 179327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	179095
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	179095
MB 380-179095/19-A	Method Blank	Total/NA	Water	525.2	179095
LCS 380-179095/21-A	Lab Control Sample	Total/NA	Water	525.2	179095
LCSD 380-179095/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	179095
MRL 380-179095/20-A	Lab Control Sample	Total/NA	Water	525.2	179095
380-175894-1 MS	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	179095
380-175894-3 DU	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	179095

Prep Batch: 639637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	
MB 570-639637/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-639637/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-639637/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 640485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-639637/1-A	Method Blank	Total/NA	Water	625.1 SIM	639637
LCS 570-639637/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	639637
LCSD 570-639637/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	639637

Analysis Batch: 644216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1 SIM	639637

Analysis Batch: 644278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	639637
MB 570-639637/1-A	Method Blank	Total/NA	Water	625.1	639637

GC VOA

Analysis Batch: 642768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-175894-2	TB: Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
380-175894-4	TB: Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
MB 570-642768/6	Method Blank	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-175894-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

GC VOA (Continued)

Analysis Batch: 642768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-642768/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-642768/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-642768/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-177173-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-177173-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 639254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-1	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	3510C	
MB 570-639254/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-639254/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-639254/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-639254/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 644132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-175894-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	639254
380-175894-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B	639254
MB 570-639254/1-A	Method Blank	Total/NA	Water	8015B	639254
LCS 570-639254/2-A	Lab Control Sample	Total/NA	Water	8015B	639254
LCSD 570-639254/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	639254
MRL 570-639254/4-A	Lab Control Sample	Total/NA	Water	8015B	639254

Lab Chronicle

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1
Date Collected: 10/07/25 11:15
Date Received: 10/09/25 10:20

Lab Sample ID: 380-175894-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			179095	IQ42	EA POM	10/10/25 13:49
Total/NA	Analysis	525.2		1	179327	Q8LA	EA POM	10/13/25 13:37
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 13:52
Total/NA	Prep	3510C			639254	TVD6	EET CAL 4	10/12/25 11:08
Total/NA	Analysis	8015B		1	644132	H6FE	EET CAL 4	10/22/25 00:06

Client Sample ID: TB: Ka'amilo Wells Pump 1
Date Collected: 10/07/25 11:15
Date Received: 10/09/25 10:20

Lab Sample ID: 380-175894-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 18:41

Client Sample ID: Ka'amilo Wells Pump 2
Date Collected: 10/07/25 12:15
Date Received: 10/09/25 10:20

Lab Sample ID: 380-175894-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			179095	IQ42	EA POM	10/10/25 13:49
Total/NA	Analysis	525.2		1	179327	Q8LA	EA POM	10/13/25 13:57
Total/NA	Prep	625.1			639637	S4EA	EET CAL 4	10/13/25 13:14
Total/NA	Analysis	625.1		1	644278	PQS1	EET CAL 4	10/22/25 10:48
Total/NA	Prep	625.1			639637	S4EA	EET CAL 4	10/13/25 13:14
Total/NA	Analysis	625.1 SIM		1	644216	PQS1	EET CAL 4	10/22/25 09:16
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 14:12
Total/NA	Prep	3510C			639254	TVD6	EET CAL 4	10/12/25 11:08
Total/NA	Analysis	8015B		1	644132	H6FE	EET CAL 4	10/22/25 00:27

Client Sample ID: TB: Ka'amilo Wells Pump 2
Date Collected: 10/07/25 12:15
Date Received: 10/09/25 10:20

Lab Sample ID: 380-175894-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 19:01

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: 380-175894-1
 SDG: Weekly: Ka'amilo 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: 380-175894-1
SDG: Weekly: Ka'amilo 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	10-11-26

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Method Summary

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

Job ID: 380-175894-1
SDG: Weekly: Ka'amilo 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 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 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: 380-175894-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-175894-1	Ka'amilo Wells Pump 1	Water	10/07/25 11:15	10/09/25 10:20	Hawaii
380-175894-2	TB: Ka'amilo Wells Pump 1	Water	10/07/25 11:15	10/09/25 10:20	Hawaii
380-175894-3	Ka'amilo Wells Pump 2	Water	10/07/25 12:15	10/09/25 10:20	Hawaii
380-175894-4	TB: Ka'amilo Wells Pump 2	Water	10/07/25 12:15	10/09/25 10:20	Hawaii

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Chain of Custody Record



Client Information		Sampler: Jason Rakofsky		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.eurofins.com		State of Origin:		Page: Page 1 of 2	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Preservation Codes: R - NaTHIO4 RA - NaTHIO/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trioma I - NH4 Acetate	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Field Filtered Sample (Yes or No)		Total Number of Containers		Other:	
City: Honolulu		TAT Requested (days):		628.1_GRO_LL (MOD) GRO					
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		6015B_GRO_LL_CS - HNL Ranges: C10-C24/C24-C30/C8-C18					
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		628.1_GRO_LL (MOD) GRO					
Email: kiwamoto@hbws.org		WO #:		628.1_DW_PREC - (MOD) 628plus Plus Tics					
Project Name: RED-HILL/HBWS Sites		Project #: 38001111		637.1_DW_PREC - 637.1 Full List					
Event Desc: RUSH Weekly Red Hill		SSOW#:		633 - All Analytes					
Site: Hawaii									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code: (RT=Refrigerated, Ambient)	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	RA	QA	QA Y	Special Instructions/Note:
Ka'amilo Wells Pump 1	7-Oct-2025	1115	G		Water		2	3	2	
Ka'amilo Wells Pump 1 (Matrix Spike) 10/7					Water					
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate) 10/7					Water					
TB: Ka'amilo Wells Pump 1	7-Oct-2025	1115	G		Water		2			
Ka'amilo Wells Pump 2	7-Oct-2025	1715	G		Water		2	3	2	
Ka'amilo Wells Pump 2 (Matrix Spike) 10/7					Water					
Ka'amilo Wells Pump 2 (Matrix Spike Duplicate) 10/7					Water					
TB: Ka'amilo Wells Pump 2	7-Oct-2025	1215	G		Water		2			

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

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 10/8/25 1100 Company: HBWS

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No: _____

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

Special Instructions/QC Requirements: 8850 1372 8600

Method of Shipment: _____

Received by: S MACIA Date/Time: 10/19/25 10:20A Company: CRA P

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: (632A) 2.5 - 0.05 2.5 GEL



Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins En

Loc: 380
175894

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-262855.1		
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			Accreditations Required (See note): State - Hawaii		Job #: 380-175894-1		
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 10/22/2025	Analysis Requested				
City: Tustin		TAT Requested (days): N/A					
State, Zip: CA, 92780		PO #: N/A	Field Filled Sample (Yes or No)	Perform WSMMSD (Yes or No)	Total Number of Containers		
Phone: 714-895-5494(Tel)		WO #: N/A					
Email: N/A		Project #: 38001111					
Project Name: RED-HILL		SSOW#: N/A					
Site: Honolulu BWS Sites							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Preservation Code:	Special Instructions/Note:
Ka'amilo Wells Pump 1 (380-175894-1)		10/7/25	11:15 Hawaiian	G	Water		MRLs are needed. Confirm any hits >RL.
TB: Ka'amilo Wells Pump 1 (380-175894-2)		10/7/25	11:15 Hawaiian	G	Water		MRLs are needed.
Ka'amilo Wells Pump 2 (380-175894-3)		10/7/25	12:15 Hawaiian	G	Water		MRLs are needed. Confirm any hits >RL.
TB: Ka'amilo Wells Pump 2 (380-175894-4)		10/7/25	12:15 Hawaiian	G	Water		MRLs are needed.



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/test/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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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:
<i>[Signature]</i>	10/10/25 10:10	<i>[Signature]</i>	<i>[Signature]</i>	10-10-25 16:10	EC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No		2-1/2-3 IR2			

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-175894-1

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

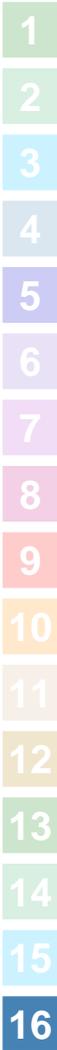
Login Number: 175894

List Number: 1

Creator: Sanchez, Joseph G

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-175894-1
SDG Number: Weekly: Ka'amilo Wells Pump 1/Pump 2

Login Number: 175894

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 10/10/25 07:34 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.	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	2.3
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	

