

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Quarterly: Ka'amilo Wells P2

JOB NUMBER

380-162828-1

Eurofins Eaton Analytical Pomona

Job Notes

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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



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Definitions/Glossary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Qualifiers

GC/MS VOA

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

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC 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 Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Analyte was found in the associated method blank.
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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

Definitions/Glossary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Glossary (Continued)

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

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: 380-162828-1

Job ID: 380-162828-1

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Job Narrative 380-162828-1

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 7/25/2025 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

GC/MS VOA

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

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-604213. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625-S.I.M

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-604213. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625-S.I.M

Method 525.2_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 380-165376 and analytical batch 380-165594 were outside control limits for Anthracene. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. Reported with flag.

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

Gasoline Range Organics

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

Diesel Range Organics

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

GC Semi VOA

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

Hydrocarbons

Method 8015B_DAI: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 570-608051 recovered outside control limits for the following analytes: Ethanol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Pesticides/PCBs

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

HPLC/IC

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

Metals

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Case Narrative

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

Job ID: 380-162828-1

Job ID: 380-162828-1 (Continued)

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Method 200.7: The continuing calibration blank (CCB) for analytical batch 380-165421 contained Calcium and Magnesium above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 200.7: The instrument blank for analytical batch 380-165421 contained Potassium greater than the method detection limit (MDL), and were not reanalyzed because the sample contained this analyte at a concentration greater than 10X the value found in the ICB. The data have been qualified and reported.

Method 200.7: The method blank for analytical batch 380-165421 contained Calcium above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

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

General Chemistry

Method SM4500_S2_D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 380-165675 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Detection Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.058		0.0097	ug/L	1		525.2	Total/NA
Chlordane (n.o.s.)	0.40		0.10	ug/L	1		505	Total/NA
Bromide	440		10	ug/L	2		300.0	Total/NA
Chloride	120		2.5	mg/L	5		300.0	Total/NA
Nitrate as N	1.8		0.050	mg/L	1		300.0	Total/NA
Sulfate	28		0.25	mg/L	1		300.0	Total/NA
Calcium	21	B ^2	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	21	^2	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.7	^2	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	56		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	1.4		0.90	ug/L	1		200.8	Total/NA
Copper	2.6		1.0	ug/L	1		200.8	Total/NA
Selenium	3.6		2.0	ug/L	1		200.8	Total/NA
Zinc	17		5.0	ug/L	1		200.8	Total/NA
Alkalinity	73		4.0	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	73		4.0	mg/L	1		SM 2320B	Total/NA
Specific Conductance	590		2.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	350		20	mg/L	1		SM 2540C	Total/NA
Fluoride	0.056		0.050	mg/L	1		SM 4500 F C	Total/NA
pH	7.8	HF		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: TB: Kaamilo Wells P2

Lab Sample ID: 380-162828-2

No Detections.

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: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Method: EPA-DW 524.2 - Total Trihalomethanes

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			07/29/25 23:42	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/29/25 23:42	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/29/25 23:42	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/29/25 23:42	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/29/25 23:42	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			07/29/25 23:42	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/29/25 23:42	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/29/25 23:42	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/29/25 23:42	1
Acetone	<500		500	ug/L			07/29/25 23:42	1
Benzene	<0.50		0.50	ug/L			07/29/25 23:42	1
Bromobenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
Bromochloromethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Bromodichloromethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Bromoethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Bromoform	<0.50		0.50	ug/L			07/29/25 23:42	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/29/25 23:42	1
Carbon disulfide	<0.50		0.50	ug/L			07/29/25 23:42	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/29/25 23:42	1
Chlorobenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Chloroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/29/25 23:42	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/29/25 23:42	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/29/25 23:42	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/29/25 23:42	1
Dibromomethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Dichloromethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Diisopropyl ether	<3.0		3.0	ug/L			07/29/25 23:42	1
Ethylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
Hexachlorobutadiene	<0.50		0.50	ug/L			07/29/25 23:42	1
Isopropylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
m,p-Xylenes	<0.50		0.50	ug/L			07/29/25 23:42	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/29/25 23:42	1

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Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/29/25 23:42	1
Naphthalene	<0.50		0.50	ug/L			07/29/25 23:42	1
n-Butylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
N-Propylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
o-Chlorotoluene	<0.50		0.50	ug/L			07/29/25 23:42	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/29/25 23:42	1
o-Xylene	<0.50		0.50	ug/L			07/29/25 23:42	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/29/25 23:42	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/29/25 23:42	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/29/25 23:42	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
Styrene	<0.50		0.50	ug/L			07/29/25 23:42	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/29/25 23:42	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/29/25 23:42	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/29/25 23:42	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/29/25 23:42	1
Toluene	<0.50		0.50	ug/L			07/29/25 23:42	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/29/25 23:42	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/29/25 23:42	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/29/25 23:42	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/29/25 23:42	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/29/25 23:42	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/29/25 23:42	1
Xylenes, Total	<0.50		0.50	ug/L			07/29/25 23:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		07/29/25 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		07/29/25 23:42	1
4-Bromofluorobenzene (Surr)	94		70 - 130		07/29/25 23:42	1
Toluene-d8 (Surr)	101		70 - 130		07/29/25 23:42	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		07/29/25 23:42	1
4-Bromofluorobenzene (Surr)	94		70 - 130		07/29/25 23:42	1
Toluene-d8 (Surr)	101		70 - 130		07/29/25 23:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
2,4'-DDE	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
2,4'-DDT	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
4,4'-DDD	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
4,4'-DDE	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
4,4'-DDT	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Acenaphthene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Acenaphthylene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Acetochlor	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Alachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
alpha-Chlordane	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Anthracene	<0.019	F1	0.019	ug/L		07/28/25 13:31	07/29/25 13:36	1
Atrazine	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Benzo[a]pyrene	<0.019		0.019	ug/L		07/28/25 13:31	07/29/25 13:36	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		07/28/25 13:31	07/29/25 13:36	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		07/28/25 13:31	07/29/25 13:36	1
beta-BHC	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		07/28/25 13:31	07/29/25 13:36	1
Aldrin	<0.0097		0.0097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Bromacil	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Butachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/28/25 13:31	07/29/25 13:36	1
Chlorobenzilate	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Chloroneb	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Chlorpyrifos	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Chrysene	<0.019		0.019	ug/L		07/28/25 13:31	07/29/25 13:36	1
delta-BHC	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		07/28/25 13:31	07/29/25 13:36	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Dieldrin	0.058		0.0097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Diethylphthalate	<0.49		0.49	ug/L		07/28/25 13:31	07/29/25 13:36	1
Dimethylphthalate	<0.49		0.49	ug/L		07/28/25 13:31	07/29/25 13:36	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		07/28/25 13:31	07/29/25 13:36	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Endosulfan sulfate	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Endrin	<0.0097		0.0097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Endrin aldehyde	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
EPTC	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Fluoranthene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Fluorene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
gamma-BHC (Lindane)	<0.0097		0.0097	ug/L		07/28/25 13:31	07/29/25 13:36	1
gamma-Chlordane	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Heptachlor	<0.0097		0.0097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Isophorone	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Malathion	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Methoxychlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Metolachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Molinate	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Parathion	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Phenanthrene	<0.039		0.039	ug/L		07/28/25 13:31	07/29/25 13:36	1
Propachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Pyrene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Simazine	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Terbacil	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Terbutylazine	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Thiobencarb	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		07/28/25 13:31	07/29/25 13:36	1
trans-Nonachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:36	1
Trifluralin	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
1-Methylnaphthalene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 13:36	1
2-Methylnaphthalene	<0.097		0.097	ug/L		07/28/25 13:31	07/29/25 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	07/28/25 13:31	07/29/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	07/28/25 13:31	07/29/25 13:36	1
Perylene-d12	89		70 - 130	07/28/25 13:31	07/29/25 13:36	1
Triphenylphosphate	102		70 - 130	07/28/25 13:31	07/29/25 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		07/30/25 04:38	08/07/25 12:16	1
2,4,5-Trichlorophenol	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
2,4,6-Trichlorophenol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
2,4-Dichlorophenol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
2,4-Dinitrophenol	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
2,6-Dichlorophenol	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
2-Chloronaphthalene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
2-Chlorophenol	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
2-Methylnaphthalene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
2-Methylphenol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
2-Nitroaniline	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
2-Nitrophenol	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
3/4-Methylphenol	<1.9		1.9	ug/L		07/30/25 04:38	08/07/25 12:16	1
3-Nitroaniline	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
4,6-Dinitro-2-methylphenol	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
4-Chloro-3-methylphenol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
4-Chloroaniline	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
4-Nitroaniline	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
4-Nitrophenol	<4.8		4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
Acenaphthene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Acenaphthylene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Aniline	<0.19	*- *1	0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzidine	<4.8	*	4.8	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzo[a]anthracene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzo[a]pyrene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzoic acid	<9.7		9.7	ug/L		07/30/25 04:38	08/07/25 12:16	1
Benzyl alcohol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
bis (2-Chloroisopropyl) ether	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Chrysene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Dibenzofuran	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Fluoranthene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Fluorene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Hexachloroethane	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Naphthalene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Nitrobenzene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
N-Nitrosodiphenylamine	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Pentachlorophenol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
Phenanthrene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1
Phenol	<0.97		0.97	ug/L		07/30/25 04:38	08/07/25 12:16	1
Pyrene	<0.19		0.19	ug/L		07/30/25 04:38	08/07/25 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		28 - 127	07/30/25 04:38	08/07/25 12:16	1
2-Fluorobiphenyl (Surr)	89		31 - 120	07/30/25 04:38	08/07/25 12:16	1
2-Fluorophenol (Surr)	50		17 - 120	07/30/25 04:38	08/07/25 12:16	1
Nitrobenzene-d5 (Surr)	88		27 - 120	07/30/25 04:38	08/07/25 12:16	1
Phenol-d6 (Surr)	32		10 - 120	07/30/25 04:38	08/07/25 12:16	1
p-Terphenyl-d14 (Surr)	92		45 - 120	07/30/25 04:38	08/07/25 12:16	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
Cyclopentene, 1,2,3,4,5-pentamethyl-	11	T J N	ug/L		2.43	1000154-28-6	07/30/25 04:38	08/12/25 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		33 - 139	07/30/25 04:38	08/12/25 17:26	1
2-Fluorobiphenyl (Surr)	79		33 - 126	07/30/25 04:38	08/12/25 17:26	1
2-Fluorophenol (Surr)	42		12 - 120	07/30/25 04:38	08/12/25 17:26	1
Nitrobenzene-d5 (Surr)	77		36 - 120	07/30/25 04:38	08/12/25 17:26	1
Phenol-d6 (Surr)	23		10 - 120	07/30/25 04:38	08/12/25 17:26	1
p-Terphenyl-d14 (Surr)	77		47 - 131	07/30/25 04:38	08/12/25 17:26	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134				08/02/25 19:01	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		07/28/25 16:47	07/29/25 13:01	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		07/28/25 16:47	07/29/25 13:01	1
1,2-Dibromoethane	<0.010		0.010	ug/L		07/28/25 16:47	07/29/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	96		60 - 140			07/28/25 16:47	07/29/25 13:01	1

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.50		0.50	ug/L		07/30/25 12:39	07/30/25 19:04	1
Chlordane (n.o.s.)	0.40		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1016	<0.070		0.070	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1221	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1232	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1242	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1248	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1254	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
PCB-1260	<0.070		0.070	ug/L		07/30/25 12:39	07/30/25 19:04	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		70 - 130			07/30/25 12:39	07/30/25 19:04	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)	<26		26	ug/L		07/28/25 09:17	08/05/25 06:14	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		07/28/25 09:17	08/05/25 06:14	1
C8-C18	<26		26	ug/L		07/28/25 09:17	08/05/25 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		60 - 130			07/28/25 09:17	08/05/25 06:14	1

Method: SW846 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10	+	0.10	mg/L			08/06/25 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	104		54 - 120				08/06/25 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	440		10	ug/L			07/31/25 08:01	2
Chloride	120		2.5	mg/L			07/26/25 19:12	5
Nitrate as N	1.8		0.050	mg/L			07/26/25 05:19	1
Nitrite as N	<0.050		0.050	mg/L			07/26/25 05:19	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28		0.25	mg/L			07/26/25 05:19	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21	B ^2	0.10	mg/L			07/28/25 15:10	1
Magnesium	21	^2	0.10	mg/L			07/28/25 15:10	1
Potassium	2.7	^2	0.10	mg/L			07/28/25 15:10	1
Sodium	56		0.10	mg/L			07/28/25 15:10	1

Method: EPA 200.8 - Mercury (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	ug/L			07/29/25 13:06	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	ug/L			07/26/25 20:05	1
Arsenic	<1.0		1.0	ug/L			07/26/25 20:05	1
Beryllium	<0.30		0.30	ug/L			07/26/25 20:05	1
Cadmium	<0.50		0.50	ug/L			07/26/25 20:05	1
Chromium	1.4		0.90	ug/L			07/26/25 20:05	1
Copper	2.6		1.0	ug/L			07/26/25 20:05	1
Lead	<0.50		0.50	ug/L			07/26/25 20:05	1
Nickel	<1.0		1.0	ug/L			07/26/25 20:05	1
Selenium	3.6		2.0	ug/L			07/26/25 20:05	1
Silver	<0.50		0.50	ug/L			07/26/25 20:05	1
Thallium	<0.30		0.30	ug/L			07/26/25 20:05	1
Zinc	17		5.0	ug/L			07/26/25 20:05	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	73		4.0	mg/L			07/28/25 16:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	73		4.0	mg/L			07/28/25 16:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.0		4.0	mg/L			07/28/25 16:34	1
Specific Conductance (SM 2510B)	590		2.0	umhos/cm			07/28/25 16:34	1
Total Dissolved Solids (SM 2540C)	350		20	mg/L			07/28/25 16:31	1
Fluoride (SM 4500 F C)	0.056		0.050	mg/L			07/28/25 16:00	1
pH (SM 4500 H+ B)	7.8	HF		SU			07/28/25 16:34	1
Sulfide (SM 4500 S2 D)	<0.050	F1	0.050	mg/L			07/29/25 16:40	1

Client Sample ID: TB: Kaamilo Wells P2

Lab Sample ID: 380-162828-2

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Method: EPA-DW 524.2 - Total Trihalomethanes

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			07/30/25 00:05	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: TB: Kaamilo Wells P2

Lab Sample ID: 380-162828-2

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/30/25 00:05	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/30/25 00:05	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/30/25 00:05	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/30/25 00:05	1
1,3-Dichloropropane, Total	<0.50		0.50	ug/L			07/30/25 00:05	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/30/25 00:05	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/30/25 00:05	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/30/25 00:05	1
Acetone	<500		500	ug/L			07/30/25 00:05	1
Benzene	<0.50		0.50	ug/L			07/30/25 00:05	1
Bromobenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
Bromochloromethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Bromodichloromethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Bromoethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Bromoform	<0.50		0.50	ug/L			07/30/25 00:05	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/30/25 00:05	1
Carbon disulfide	<0.50		0.50	ug/L			07/30/25 00:05	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/30/25 00:05	1
Chlorobenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Chloroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/30/25 00:05	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/30/25 00:05	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/30/25 00:05	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/30/25 00:05	1
Dibromomethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Dichloromethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Diisopropyl ether	<3.0		3.0	ug/L			07/30/25 00:05	1
Ethylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
Hexachlorobutadiene	<0.50		0.50	ug/L			07/30/25 00:05	1
Isopropylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
m,p-Xylenes	<0.50		0.50	ug/L			07/30/25 00:05	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/30/25 00:05	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/30/25 00:05	1
Naphthalene	<0.50		0.50	ug/L			07/30/25 00:05	1
n-Butylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
N-Propylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: TB: Kaamilo Wells P2

Lab Sample ID: 380-162828-2

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	<0.50		0.50	ug/L			07/30/25 00:05	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/30/25 00:05	1
o-Xylene	<0.50		0.50	ug/L			07/30/25 00:05	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/30/25 00:05	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/30/25 00:05	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/30/25 00:05	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
Styrene	<0.50		0.50	ug/L			07/30/25 00:05	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/30/25 00:05	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/30/25 00:05	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/30/25 00:05	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/30/25 00:05	1
Toluene	<0.50		0.50	ug/L			07/30/25 00:05	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/30/25 00:05	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/30/25 00:05	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/30/25 00:05	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/30/25 00:05	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/30/25 00:05	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/30/25 00:05	1
Xylenes, Total	<0.50		0.50	ug/L			07/30/25 00:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3.8	T J	ug/L		9.02	N/A		07/30/25 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		07/30/25 00:05	1
4-Bromofluorobenzene (Surr)	100		70 - 130		07/30/25 00:05	1
Toluene-d8 (Surr)	99		70 - 130		07/30/25 00:05	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		07/30/25 00:05	1
4-Bromofluorobenzene (Surr)	100		70 - 130		07/30/25 00:05	1
Toluene-d8 (Surr)	99		70 - 130		07/30/25 00:05	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			08/03/25 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134		08/03/25 00:24	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		07/28/25 16:47	07/29/25 13:23	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		07/28/25 16:47	07/29/25 13:23	1
1,2-Dibromoethane	<0.010		0.010	ug/L		07/28/25 16:47	07/29/25 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	99		60 - 140	07/28/25 16:47	07/29/25 13:23	1

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

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	HI Org Limit	EPAMCL Limit	EPAMCL S Limit	Method	Prep Type
Trihalomethanes, Total	<0.50		ug/L		80		524.2	Total/NA
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200		524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7		524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000			524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70		524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5		524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5		524.2	Total/NA
Bromodichloromethane	<0.50		ug/L		80		524.2	Total/NA
Bromoform	<0.50		ug/L		80		524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5		524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100		524.2	Total/NA
Chlorodibromomethane	<0.50		ug/L		80		524.2	Total/NA
Chloroform (Trichloromethane)	<0.50		ug/L		80		524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70		524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5		524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700		524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600		524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75		524.2	Total/NA
Styrene	<0.50		ug/L	100.0	100		524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000		524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100		524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2		524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000		524.2	Total/NA
Alachlor	<0.049		ug/L		2		525.2	Total/NA
Atrazine	<0.049		ug/L		3		525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L		0.2		525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L		6		525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L		400		525.2	Total/NA
Endrin	<0.0097		ug/L		2		525.2	Total/NA
gamma-BHC (Lindane)	<0.0097		ug/L		0.2		525.2	Total/NA
Heptachlor	<0.0097		ug/L		0.4		525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L		0.2		525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L		1		525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L		50		525.2	Total/NA
Methoxychlor	<0.049		ug/L		40		525.2	Total/NA
Simazine	<0.049		ug/L		4		525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L		0.2		625.1 SIM	Total/NA
Pentachlorophenol	<0.97		ug/L		1		625.1 SIM	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000			504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2		504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05		504.1	Total/NA
Toxaphene	<0.50		ug/L		3		505	Total/NA
Chlordane (n.o.s.)	0.40		ug/L		2		505	Total/NA
Polychlorinated biphenyls, Total	<0.10		ug/L		0.5		505	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2 (Continued)

Lab Sample ID: 380-162828-1

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	HI Org Limit	EPAMCL Limit	EPAMCL S Limit	Method	Prep Type
Chloride	120		mg/L			250	300.0	Total/NA
Nitrate as N	1.8		mg/L		10		300.0	Total/NA
Nitrite as N	<0.050		mg/L		1		300.0	Total/NA
Sulfate	28		mg/L			250	300.0	Total/NA
Mercury	<0.20		ug/L		2		200.8	Total/NA
Antimony	<1.0		ug/L		6		200.8	Total/NA
Arsenic	<1.0		ug/L		10		200.8	Total/NA
Beryllium	<0.30		ug/L		4		200.8	Total/NA
Cadmium	<0.50		ug/L		5		200.8	Total/NA
Chromium	1.4		ug/L		100		200.8	Total/NA
Copper	2.6		ug/L		1300	1000	200.8	Total/NA
Lead	<0.50		ug/L		10.00		200.8	Total/NA
Selenium	3.6		ug/L		50		200.8	Total/NA
Silver	<0.50		ug/L			100	200.8	Total/NA
Thallium	<0.30		ug/L		2		200.8	Total/NA
Zinc	17		ug/L			5000	200.8	Total/NA
Total Dissolved Solids	350		mg/L			500	SM 2540C	Total/NA
Fluoride	0.056		mg/L		4	2	SM 4500 F C	Total/NA
pH	7.8	HF	SU			6.5	SM 4500 H+ B	Total/NA

Client Sample ID: TB: Kaamilo Wells P2

Lab Sample ID: 380-162828-2

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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
Trihalomethanes, Total	<0.50		ug/L		80	0.50	524.2	Total/NA
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200	0.50	524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7	0.50	524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000		0.50	524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70	0.50	524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Bromodichloromethane	<0.50		ug/L		80	0.50	524.2	Total/NA
Bromoform	<0.50		ug/L		80	0.50	524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Chlorodibromomethane	<0.50		ug/L		80	0.50	524.2	Total/NA
Chloroform (Trichloromethane)	<0.50		ug/L		80	0.50	524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70	0.50	524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700	0.50	524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600	0.50	524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75	0.50	524.2	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: TB: Kaamilo Wells P2 (Continued)

Lab Sample ID: 380-162828-2

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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
Styrene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000	0.50	524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2	0.30	524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000	0.50	524.2	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000		0.020	504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2	0.010	504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05	0.010	504.1	Total/NA

Surrogate Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		DCA (70-130)	DCA (70-130)	BFB (70-130)	BFB (70-130)	TOL (70-130)	TOL (70-130)
380-162828-1	Kaamilo Wells P2	98	98	94	94	101	101
380-162828-2	TB: Kaamilo Wells P2	97	97	100	100	99	99
LCS 380-165664/3	Lab Control Sample	99	99	103	103	103	103
LCSD 380-165664/4	Lab Control Sample Dup	99	99	99	99	100	100
MB 380-165664/5	Method Blank	98	98	101	101	102	102
MRL 380-165610/3	Lab Control Sample	100	100	101	101	107	107
MRL 380-165610/4	Lab Control Sample	97	97	99	99	105	105

Surrogate Legend

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

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)
380-162828-1	Kaamilo Wells P2	101	89	102
380-162828-1 MS	Kaamilo Wells P2	96	94	106
380-162828-1 MSD	Kaamilo Wells P2	102	99	111
LCS 380-165376/23-A	Lab Control Sample	101	98	114
MB 380-165376/21-A	Method Blank	100	93	108
MRL 380-165376/22-A	Lab Control Sample	99	96	105

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)
380-162828-1	Kaamilo Wells P2	68	79	42	77	23	77
MB 570-604213/1-A	Method Blank	67	69	50	77	27	80

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: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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)
380-162828-1	Kaamilo Wells P2	90	89	50	88	32	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)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-162172-B-1 MS	Matrix Spike	99					
380-162172-B-1 MSD	Matrix Spike Duplicate	98					
380-162828-1	Kaamilo Wells P2	82					
380-162828-2	TB: Kaamilo Wells P2	83					
LCS 570-606111/1008	Lab Control Sample	99					
LCSD 570-606111/9	Lab Control Sample Dup	93					
MB 570-606111/10	Method Blank	77					
MRL 570-606111/11	Lab Control Sample	79					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		DBPP1 (60-140)					
380-162192-DJ-1-A DU	Duplicate	93					
380-162664-X-1-A MS	Matrix Spike	93					
380-162828-1	Kaamilo Wells P2	96					
380-162828-2	TB: Kaamilo Wells P2	99					
LCS 380-165375/29-A	Lab Control Sample	87					
MBL 380-165375/4-A	Method Blank	93					
MRL 380-165375/2-A	Lab Control Sample	93					
MRL 380-165375/3-A	Lab Control Sample	93					

Surrogate Legend

DBPP = 1,2-Dibromopropane (Surr)

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TCX1 (70-130)					
380-162683-C-1-A MS	Matrix Spike	104					

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Surrogate Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (70-130)
380-162683-D-1-A MS	Matrix Spike	106
380-162688-C-1-A MS	Matrix Spike	102
380-162688-D-1-A MS	Matrix Spike	106
380-162828-1	Kaamilo Wells P2	100
LCS 380-165833/28-A	Lab Control Sample	99
LCS 380-165833/30-A	Lab Control Sample	102
LCS 380-165833/31-A	Lab Control Sample	93
LCSD 380-165833/29-A	Lab Control Sample Dup	102
MB 380-165833/3-A	Method Blank	97
MRL 380-165833/1-A	Lab Control Sample	100
MRL 380-165833/2-A	Lab Control Sample	90

Surrogate Legend

TCX = Tetrachloro-m-xylene

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)
380-162172-C-1-A MS	Matrix Spike	111
380-162172-C-1-B MSD	Matrix Spike Duplicate	105
380-162828-1	Kaamilo Wells P2	104
LCS 570-603290/2-A	Lab Control Sample	101
LCSD 570-603290/3-A	Lab Control Sample Dup	103
MB 570-603290/1-A	Method Blank	106
MRL 570-603290/4-A	Lab Control Sample	107

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HF2PP1 (54-120)
380-162828-1	Kaamilo Wells P2	104
380-162828-1 MS	Kaamilo Wells P2	102
380-162828-1 MSD	Kaamilo Wells P2	99
LCS 570-608051/5	Lab Control Sample	103
LCSD 570-608051/6	Lab Control Sample Dup	102
MB 570-608051/3	Method Blank	102
MRL 570-608051/4	Lab Control Sample	107

Surrogate Legend

HF2PP = Hexafluoro-2-propanol (Surr)

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MRL 380-165610/3

Matrix: Water

Analysis Batch: 165610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.500	0.725		ug/L		145	50 - 150
Vinyl Chloride (VC)	0.250	0.358		ug/L		143	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: MRL 380-165610/4

Matrix: Water

Analysis Batch: 165610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.500	0.495	J	ug/L		99	50 - 150
1,1,1-Trichloroethane	0.500	0.543		ug/L		109	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.545		ug/L		109	50 - 150
1,1,2-Trichloroethane	0.500	0.553		ug/L		111	50 - 150
1,1-Dichlorethylene	0.500	0.608		ug/L		122	50 - 150
1,1-Dichloroethane	0.500	0.542		ug/L		108	50 - 150
1,1-Dichloropropene	0.500	0.573		ug/L		115	50 - 150
1,2,3-Trichlorobenzene	0.500	0.690		ug/L		138	50 - 150
1,2,3-Trichloropropane	0.500	0.582		ug/L		116	50 - 150
1,2,4-Trichlorobenzene	0.500	0.675		ug/L		135	50 - 150
1,2,4-Trimethylbenzene	0.500	0.590		ug/L		118	50 - 150
1,2-Dichloroethane	0.500	0.590		ug/L		118	50 - 150
1,2-Dichloropropane	0.500	0.579		ug/L		116	50 - 150
1,3,5-Trimethylbenzene	0.500	0.603		ug/L		121	50 - 150
1,3-Dichloropropane	0.500	0.574		ug/L		115	50 - 150
1,3-Dichloropropane, Total	1.00	0.989		ug/L		99	50 - 150
2,2-Dichloropropane	0.500	0.639		ug/L		128	50 - 150
2-Butanone (MEK)	5.00	6.94		ug/L		139	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	6.80		ug/L		136	50 - 150
Acetone	5.00	4.82	J	ug/L		96	50 - 150
Benzene	0.500	0.591		ug/L		118	50 - 150
Bromobenzene	0.500	0.567		ug/L		113	50 - 150
Bromochloromethane	0.500	0.531		ug/L		106	50 - 150
Bromodichloromethane	0.500	0.495	J	ug/L		99	50 - 150
Bromoethane	0.500	0.515		ug/L		103	50 - 150
Bromoform	0.500	0.427	J	ug/L		85	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.728		ug/L		146	50 - 150
Carbon disulfide	0.500	0.573		ug/L		115	50 - 150
Carbon tetrachloride	0.500	0.526		ug/L		105	50 - 150
Chlorobenzene	0.500	0.591		ug/L		118	50 - 150
Chlorodibromomethane	0.500	0.492	J	ug/L		98	50 - 150
cis-1,3-Dichloropropene	0.500	0.503		ug/L		101	50 - 150
Dichloromethane	0.500	0.594		ug/L		119	50 - 150
Diisopropyl ether	0.500	0.633	J	ug/L		127	50 - 150
Ethylbenzene	0.500	0.618		ug/L		124	50 - 150

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-165610/4

Matrix: Water

Analysis Batch: 165610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	0.500	0.685		ug/L		137	50 - 150
Isopropylbenzene	0.500	0.596		ug/L		119	50 - 150
m,p-Xylenes	1.00	1.20		ug/L		120	50 - 150
m-Dichlorobenzene (1,3-DCB)	0.500	0.601		ug/L		120	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.630		ug/L		126	50 - 150
Naphthalene	0.500	0.632		ug/L		126	50 - 150
n-Butylbenzene	0.500	0.622		ug/L		124	50 - 150
N-Propylbenzene	0.500	0.600		ug/L		120	50 - 150
o-Chlorotoluene	0.500	0.618		ug/L		124	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.592		ug/L		118	50 - 150
o-Xylene	0.500	0.625		ug/L		125	50 - 150
p-Chlorotoluene	0.500	0.590		ug/L		118	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.588		ug/L		118	50 - 150
p-Isopropyltoluene	0.500	0.636		ug/L		127	50 - 150
sec-Butylbenzene	0.500	0.633		ug/L		127	50 - 150
Styrene	0.500	0.575		ug/L		115	50 - 150
Tert-amyl methyl ether	0.500	0.656	J	ug/L		131	50 - 150
Tert-butyl ethyl ether	0.500	0.657	J	ug/L		131	50 - 150
tert-Butylbenzene	0.500	0.622		ug/L		124	50 - 150
Tetrachloroethene (PCE)	0.500	0.557		ug/L		111	50 - 150
Toluene	0.500	0.637		ug/L		127	50 - 150
trans-1,2-Dichloroethylene	0.500	0.561		ug/L		112	50 - 150
trans-1,3-Dichloropropene	0.500	0.486	J	ug/L		97	50 - 150
Trichloroethylene (TCE)	0.500	0.548		ug/L		110	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.508		ug/L		102	50 - 150
Trichlorotrifluoroethane	0.500	0.748		ug/L		150	50 - 150
Vinyl Chloride (VC)	0.500	0.538		ug/L		108	50 - 150
Xylenes, Total	1.50	1.82		ug/L		121	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: MB 380-165664/5

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/29/25 22:56	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/29/25 22:56	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/29/25 22:56	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/29/25 22:56	1

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-165664/5

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/29/25 22:56	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			07/29/25 22:56	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/29/25 22:56	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/29/25 22:56	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/29/25 22:56	1
Acetone	<500		500	ug/L			07/29/25 22:56	1
Benzene	<0.50		0.50	ug/L			07/29/25 22:56	1
Bromobenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
Bromochloromethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Bromodichloromethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Bromoethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Bromoform	<0.50		0.50	ug/L			07/29/25 22:56	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/29/25 22:56	1
Carbon disulfide	<0.50		0.50	ug/L			07/29/25 22:56	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/29/25 22:56	1
Chlorobenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Chloroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/29/25 22:56	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/29/25 22:56	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/29/25 22:56	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/29/25 22:56	1
Dibromomethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Dichloromethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Diisopropyl ether	<3.0		3.0	ug/L			07/29/25 22:56	1
Ethylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
Hexachlorobutadiene	<0.50		0.50	ug/L			07/29/25 22:56	1
Isopropylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
m,p-Xylenes	<0.50		0.50	ug/L			07/29/25 22:56	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/29/25 22:56	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/29/25 22:56	1
Naphthalene	<0.50		0.50	ug/L			07/29/25 22:56	1
n-Butylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
N-Propylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
o-Chlorotoluene	<0.50		0.50	ug/L			07/29/25 22:56	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/29/25 22:56	1
o-Xylene	<0.50		0.50	ug/L			07/29/25 22:56	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/29/25 22:56	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/29/25 22:56	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/29/25 22:56	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
Styrene	<0.50		0.50	ug/L			07/29/25 22:56	1

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-165664/5

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/29/25 22:56	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/29/25 22:56	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/29/25 22:56	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/29/25 22:56	1
Toluene	<0.50		0.50	ug/L			07/29/25 22:56	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/29/25 22:56	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/29/25 22:56	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/29/25 22:56	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/29/25 22:56	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/29/25 22:56	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/29/25 22:56	1
Xylenes, Total	<0.50		0.50	ug/L			07/29/25 22:56	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		07/29/25 22:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		07/29/25 22:56	1
4-Bromofluorobenzene (Surr)	101		70 - 130		07/29/25 22:56	1
Toluene-d8 (Surr)	102		70 - 130		07/29/25 22:56	1

Lab Sample ID: LCS 380-165664/3

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.68		ug/L		94	70 - 130
1,1,1-Trichloroethane	5.00	4.53		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.82		ug/L		96	70 - 130
1,1,2-Trichloroethane	5.00	4.94		ug/L		99	70 - 130
1,1-Dichloroethylene	5.00	4.87		ug/L		97	70 - 130
1,1-Dichloroethane	5.00	4.49		ug/L		90	70 - 130
1,1-Dichloropropene	5.00	4.42		ug/L		88	70 - 130
1,2,3-Trichlorobenzene	5.00	5.17		ug/L		103	70 - 130
1,2,3-Trichloropropane	5.00	4.77		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	5.00	5.08		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	5.00	4.46		ug/L		89	70 - 130
1,2-Dichloroethane	5.00	4.72		ug/L		94	70 - 130
1,2-Dichloropropane	5.00	4.49		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	5.00	4.67		ug/L		93	70 - 130
1,3-Dichloropropane	5.00	4.84		ug/L		97	70 - 130
1,3-Dichloropropene, Total	10.0	8.88		ug/L		89	70 - 130
2,2-Dichloropropane	5.00	4.23		ug/L		85	70 - 130
2-Butanone (MEK)	50.0	48.0		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	53.2		ug/L		106	70 - 130
Acetone	50.0	45.8	J	ug/L		92	70 - 130
Benzene	5.00	4.59		ug/L		92	70 - 130
Bromobenzene	5.00	4.72		ug/L		94	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-165664/3

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	5.00	4.59		ug/L		92	70 - 130
Bromodichloromethane	5.00	4.27		ug/L		85	70 - 130
Bromoethane	5.00	4.70		ug/L		94	70 - 130
Bromoform	5.00	4.50		ug/L		90	70 - 130
Bromomethane (Methyl Bromide)	5.00	4.47		ug/L		89	70 - 130
Carbon disulfide	5.00	4.34		ug/L		87	70 - 130
Carbon tetrachloride	5.00	4.33		ug/L		87	70 - 130
Chlorobenzene	5.00	4.77		ug/L		95	70 - 130
Chlorodibromomethane	5.00	4.33		ug/L		87	70 - 130
cis-1,3-Dichloropropene	5.00	4.53		ug/L		91	70 - 130
Dichloromethane	5.00	4.71		ug/L		94	70 - 130
Diisopropyl ether	5.00	4.66		ug/L		93	70 - 130
Ethylbenzene	5.00	5.15		ug/L		103	70 - 130
Hexachlorobutadiene	5.00	4.78		ug/L		96	70 - 130
Isopropylbenzene	5.00	4.71		ug/L		94	70 - 130
m,p-Xylenes	10.0	9.87		ug/L		99	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	4.77		ug/L		95	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.81		ug/L		96	70 - 130
Naphthalene	5.00	4.82		ug/L		96	70 - 130
n-Butylbenzene	5.00	4.68		ug/L		94	70 - 130
N-Propylbenzene	5.00	4.75		ug/L		95	70 - 130
o-Chlorotoluene	5.00	4.86		ug/L		97	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	4.52		ug/L		90	70 - 130
o-Xylene	5.00	5.06		ug/L		101	70 - 130
p-Chlorotoluene	5.00	4.78		ug/L		96	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	4.74		ug/L		95	70 - 130
p-Isopropyltoluene	5.00	4.96		ug/L		99	70 - 130
sec-Butylbenzene	5.00	5.01		ug/L		100	70 - 130
Styrene	5.00	4.34		ug/L		87	70 - 130
Tert-amyl methyl ether	5.00	4.64		ug/L		93	70 - 130
Tert-butyl ethyl ether	5.00	4.65		ug/L		93	70 - 130
tert-Butylbenzene	5.00	4.77		ug/L		95	70 - 130
Tetrachloroethene (PCE)	5.00	4.68		ug/L		94	70 - 130
Toluene	5.00	5.03		ug/L		101	70 - 130
trans-1,2-Dichloroethylene	5.00	4.74		ug/L		95	70 - 130
trans-1,3-Dichloropropene	5.00	4.35		ug/L		87	70 - 130
Trichloroethylene (TCE)	5.00	4.72		ug/L		94	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	4.74		ug/L		95	70 - 130
Trichlorotrifluoroethane	5.00	4.82		ug/L		96	70 - 130
Vinyl Chloride (VC)	5.00	4.53		ug/L		91	70 - 130
Xylenes, Total	15.0	14.9		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-165664/4

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.60		ug/L		92	70 - 130	2	20
1,1,1-Trichloroethane	5.00	4.42		ug/L		88	70 - 130	3	20
1,1,2,2-Tetrachloroethane	5.00	4.82		ug/L		96	70 - 130	0	20
1,1,2-Trichloroethane	5.00	4.70		ug/L		94	70 - 130	5	20
1,1-Dichloroethylene	5.00	4.61		ug/L		92	70 - 130	5	20
1,1-Dichloroethane	5.00	4.40		ug/L		88	70 - 130	2	20
1,1-Dichloropropene	5.00	4.39		ug/L		88	70 - 130	1	20
1,2,3-Trichlorobenzene	5.00	5.39		ug/L		108	70 - 130	4	20
1,2,3-Trichloropropane	5.00	4.80		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene	5.00	5.46		ug/L		109	70 - 130	7	20
1,2,4-Trimethylbenzene	5.00	4.60		ug/L		92	70 - 130	3	20
1,2-Dichloroethane	5.00	4.98		ug/L		100	70 - 130	6	20
1,2-Dichloropropane	5.00	4.47		ug/L		89	70 - 130	0	20
1,3,5-Trimethylbenzene	5.00	4.78		ug/L		96	70 - 130	2	20
1,3-Dichloropropane	5.00	4.59		ug/L		92	70 - 130	5	20
1,3-Dichloropropene, Total	10.0	8.98		ug/L		90	70 - 130	1	20
2,2-Dichloropropane	5.00	4.07		ug/L		81	70 - 130	4	20
2-Butanone (MEK)	50.0	48.6		ug/L		97	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	50.0	51.3		ug/L		103	70 - 130	4	20
Acetone	50.0	46.4	J	ug/L		93	70 - 130	1	20
Benzene	5.00	4.66		ug/L		93	70 - 130	2	20
Bromobenzene	5.00	4.63		ug/L		93	70 - 130	2	20
Bromochloromethane	5.00	4.58		ug/L		92	70 - 130	0	20
Bromodichloromethane	5.00	4.23		ug/L		85	70 - 130	1	20
Bromoethane	5.00	4.61		ug/L		92	70 - 130	2	20
Bromoform	5.00	4.75		ug/L		95	70 - 130	6	20
Bromomethane (Methyl Bromide)	5.00	4.47		ug/L		89	70 - 130	0	20
Carbon disulfide	5.00	4.06		ug/L		81	70 - 130	7	20
Carbon tetrachloride	5.00	4.22		ug/L		84	70 - 130	3	20
Chlorobenzene	5.00	4.51		ug/L		90	70 - 130	5	20
Chlorodibromomethane	5.00	4.31		ug/L		86	70 - 130	0	20
cis-1,3-Dichloropropene	5.00	4.55		ug/L		91	70 - 130	0	20
Dichloromethane	5.00	4.52		ug/L		90	70 - 130	4	20
Diisopropyl ether	5.00	4.58		ug/L		92	70 - 130	2	20
Ethylbenzene	5.00	4.94		ug/L		99	70 - 130	4	20
Hexachlorobutadiene	5.00	5.03		ug/L		101	70 - 130	5	20
Isopropylbenzene	5.00	4.61		ug/L		92	70 - 130	2	20
m,p-Xylenes	10.0	9.54		ug/L		95	70 - 130	3	20
m-Dichlorobenzene (1,3-DCB)	5.00	4.74		ug/L		95	70 - 130	1	20
Methyl-tert-butyl Ether (MTBE)	5.00	4.72		ug/L		94	70 - 130	2	20
Naphthalene	5.00	5.05		ug/L		101	70 - 130	5	20
n-Butylbenzene	5.00	4.93		ug/L		99	70 - 130	5	20
N-Propylbenzene	5.00	4.79		ug/L		96	70 - 130	1	20
o-Chlorotoluene	5.00	4.91		ug/L		98	70 - 130	1	20
o-Dichlorobenzene (1,2-DCB)	5.00	4.70		ug/L		94	70 - 130	4	20
o-Xylene	5.00	4.90		ug/L		98	70 - 130	3	20
p-Chlorotoluene	5.00	4.66		ug/L		93	70 - 130	2	20
p-Dichlorobenzene (1,4-DCB)	5.00	4.73		ug/L		95	70 - 130	0	20

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-165664/4

Matrix: Water

Analysis Batch: 165664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Isopropyltoluene	5.00	4.99		ug/L		100	70 - 130	1	20
sec-Butylbenzene	5.00	4.91		ug/L		98	70 - 130	2	20
Styrene	5.00	4.45		ug/L		89	70 - 130	2	20
Tert-amyl methyl ether	5.00	4.63		ug/L		93	70 - 130	0	20
Tert-butyl ethyl ether	5.00	4.52		ug/L		90	70 - 130	3	20
tert-Butylbenzene	5.00	4.77		ug/L		95	70 - 130	0	20
Tetrachloroethene (PCE)	5.00	4.47		ug/L		89	70 - 130	5	20
Toluene	5.00	4.66		ug/L		93	70 - 130	8	20
trans-1,2-Dichloroethylene	5.00	4.58		ug/L		92	70 - 130	3	20
trans-1,3-Dichloropropene	5.00	4.43		ug/L		89	70 - 130	2	20
Trichloroethylene (TCE)	5.00	4.62		ug/L		92	70 - 130	2	20
Trichlorofluoromethane (Freon 11)	5.00	4.59		ug/L		92	70 - 130	3	20
Trichlorotrifluoroethane	5.00	4.70		ug/L		94	70 - 130	3	20
Vinyl Chloride (VC)	5.00	4.33		ug/L		87	70 - 130	4	20
Xylenes, Total	15.0	14.4		ug/L		96	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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

Lab Sample ID: MB 380-165376/21-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165376

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
2,4'-DDE	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
2,4'-DDT	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
4,4'-DDD	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
4,4'-DDE	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
4,4'-DDT	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Acenaphthene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Acenaphthylene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Acetochlor	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Alachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
alpha-BHC	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
alpha-Chlordane	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Anthracene	<0.020		0.020	ug/L		07/28/25 13:31	07/29/25 13:16	1
Atrazine	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/28/25 13:31	07/29/25 13:16	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/28/25 13:31	07/29/25 13:16	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: MB 380-165376/21-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165376

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/28/25 13:31	07/29/25 13:16	1
beta-BHC	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/28/25 13:31	07/29/25 13:16	1
Aldrin	<0.0098		0.0098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Bromacil	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Butachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/28/25 13:31	07/29/25 13:16	1
Chlorobenzilate	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Chloroneb	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Chlorpyrifos	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Chrysene	<0.020		0.020	ug/L		07/28/25 13:31	07/29/25 13:16	1
delta-BHC	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/28/25 13:31	07/29/25 13:16	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Dieldrin	<0.0098		0.0098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Diethylphthalate	<0.49		0.49	ug/L		07/28/25 13:31	07/29/25 13:16	1
Dimethylphthalate	<0.49		0.49	ug/L		07/28/25 13:31	07/29/25 13:16	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		07/28/25 13:31	07/29/25 13:16	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Endosulfan sulfate	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Endrin	<0.0098		0.0098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Endrin aldehyde	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
EPTC	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Fluoranthene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Fluorene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
gamma-BHC (Lindane)	<0.0098		0.0098	ug/L		07/28/25 13:31	07/29/25 13:16	1
gamma-Chlordane	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Heptachlor	<0.0098		0.0098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Isophorone	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Malathion	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Methoxychlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Metolachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Molinate	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Naphthalene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Parathion	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Phenanthrene	<0.039		0.039	ug/L		07/28/25 13:31	07/29/25 13:16	1
Propachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Pyrene	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Simazine	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Terbacil	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: MB 380-165376/21-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165376

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Terbutylazine	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Thiobencarb	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/28/25 13:31	07/29/25 13:16	1
trans-Nonachlor	<0.049		0.049	ug/L		07/28/25 13:31	07/29/25 13:16	1
Trifluralin	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
1-Methylnaphthalene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1
2-Methylnaphthalene	<0.098		0.098	ug/L		07/28/25 13:31	07/29/25 13:16	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane	1.60	T J N	ug/L		2.69	124-18-5	07/28/25 13:31	07/29/25 13:16	1
9-Octadecenamide, (Z)-	3.68	T J N	ug/L		7.78	301-02-0	07/28/25 13:31	07/29/25 13:16	1
13-Docosenamide, (Z)-	0.612	T J N	ug/L		10.30	112-84-5	07/28/25 13:31	07/29/25 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	07/28/25 13:31	07/29/25 13:16	1
Perylene-d12	93		70 - 130	07/28/25 13:31	07/29/25 13:16	1
Triphenylphosphate	108		70 - 130	07/28/25 13:31	07/29/25 13:16	1

Lab Sample ID: LCS 380-165376/23-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	1.83		ug/L		93	70 - 130
2,4'-DDE	1.97	1.65		ug/L		84	70 - 130
2,4'-DDT	1.97	1.75		ug/L		89	70 - 130
2,4-Dinitrotoluene	1.97	1.76		ug/L		90	70 - 130
2,6-Dinitrotoluene	1.97	1.72		ug/L		87	70 - 130
4,4'-DDD	1.97	1.75		ug/L		89	70 - 130
4,4'-DDE	1.97	1.74		ug/L		88	70 - 130
4,4'-DDT	1.97	1.71		ug/L		87	70 - 130
Acenaphthene	1.97	1.62		ug/L		83	70 - 130
Acenaphthylene	1.97	1.76		ug/L		89	70 - 130
Acetochlor	1.97	1.84		ug/L		94	70 - 130
Alachlor	1.97	1.97		ug/L		100	70 - 130
alpha-BHC	1.97	1.77		ug/L		90	70 - 130
alpha-Chlordane	1.97	1.71		ug/L		87	70 - 130
Anthracene	1.97	1.65		ug/L		84	70 - 130
Atrazine	1.97	1.65		ug/L		84	70 - 130
Benz(a)anthracene	1.97	1.81		ug/L		92	70 - 130
Benzo[a]pyrene	1.97	1.91		ug/L		97	70 - 130
Benzo[b]fluoranthene	1.97	1.78		ug/L		91	70 - 130
Benzo[g,h,i]perylene	1.97	1.65		ug/L		84	70 - 130
Benzo[k]fluoranthene	1.97	1.69		ug/L		86	70 - 130
beta-BHC	1.97	1.74		ug/L		89	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.82		ug/L		92	70 - 130
Aldrin	1.97	1.64		ug/L		84	70 - 130
Bromacil	1.97	1.95		ug/L		99	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-165376/23-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	1.97	1.94		ug/L		99	70 - 130
Butylbenzylphthalate	1.97	2.04		ug/L		104	70 - 130
Chlorobenzilate	1.97	1.83		ug/L		93	70 - 130
Chloroneb	1.97	1.62		ug/L		82	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.63		ug/L		83	70 - 130
Chlorpyrifos	1.97	1.87		ug/L		95	70 - 130
Chrysene	1.97	1.68		ug/L		85	70 - 130
delta-BHC	1.97	1.83		ug/L		93	70 - 130
Di(2-ethylhexyl)adipate	1.97	1.98		ug/L		101	70 - 130
Dibenz(a,h)anthracene	1.97	1.65		ug/L		84	70 - 130
Diclorvos (DDVP)	1.97	1.82		ug/L		92	70 - 130
Dieldrin	1.97	1.89		ug/L		96	70 - 130
Diethylphthalate	1.97	1.77		ug/L		90	70 - 130
Dimethylphthalate	1.97	1.82		ug/L		92	70 - 130
Di-n-butyl phthalate	3.93	3.99		ug/L		102	70 - 130
Di-n-octyl phthalate	1.97	1.74		ug/L		89	70 - 130
Endosulfan I (Alpha)	1.97	1.94		ug/L		99	70 - 130
Endosulfan II (Beta)	1.97	1.91		ug/L		97	70 - 130
Endosulfan sulfate	1.97	1.74		ug/L		89	70 - 130
Endrin	1.97	1.92		ug/L		98	70 - 130
Endrin aldehyde	1.97	1.86		ug/L		95	60 - 130
EPTC	1.97	1.74		ug/L		88	70 - 130
Fluoranthene	1.97	1.74		ug/L		89	70 - 130
Fluorene	1.97	1.70		ug/L		86	70 - 130
gamma-BHC (Lindane)	1.97	1.69		ug/L		86	70 - 130
gamma-Chlordane	1.97	1.68		ug/L		86	70 - 130
Heptachlor	1.97	1.70		ug/L		86	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.80		ug/L		92	70 - 130
Hexachlorobenzene	1.97	1.45		ug/L		73	70 - 130
Hexachlorocyclopentadiene	1.97	1.63		ug/L		83	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.69		ug/L		86	70 - 130
Isophorone	1.97	1.71		ug/L		87	70 - 130
Malathion	1.97	1.74		ug/L		89	70 - 130
Methoxychlor	1.97	1.79		ug/L		91	70 - 130
Metolachlor	1.97	1.81		ug/L		92	70 - 130
Molinate	1.97	1.78		ug/L		90	70 - 130
Naphthalene	1.97	1.51		ug/L		77	70 - 130
Parathion	1.97	1.91		ug/L		97	70 - 130
Pendimethalin (Penoxaline)	1.97	1.80		ug/L		91	70 - 130
Phenanthrene	1.97	1.63		ug/L		83	70 - 130
Propachlor	1.97	1.85		ug/L		94	70 - 130
Pyrene	1.97	1.92		ug/L		98	70 - 130
Simazine	1.97	1.71		ug/L		87	70 - 130
Terbacil	1.97	1.85		ug/L		94	70 - 130
Terbutylazine	1.97	1.62		ug/L		82	70 - 130
Thiobencarb	1.97	1.71		ug/L		87	70 - 130
trans-Nonachlor	1.97	1.75		ug/L		89	70 - 130
Trifluralin	1.97	1.55		ug/L		79	70 - 130
1-Methylnaphthalene	1.97	1.55		ug/L		79	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-165376/23-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.97	1.57		ug/L		80	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
2-Nitro-m-xylene	101		70 - 130				
Perylene-d12	98		70 - 130				
Triphenylphosphate	114		70 - 130				

Lab Sample ID: MRL 380-165376/22-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0981	0.0787	J	ug/L		80	50 - 150
2,4'-DDE	0.0981	0.0958	J	ug/L		98	50 - 150
2,4'-DDT	0.0981	0.105		ug/L		107	50 - 150
2,4-Dinitrotoluene	0.0981	0.0950	J	ug/L		97	50 - 150
2,6-Dinitrotoluene	0.0981	0.127		ug/L		129	50 - 150
4,4'-DDD	0.0981	0.106		ug/L		108	50 - 150
4,4'-DDE	0.0981	0.0765	J	ug/L		78	50 - 150
4,4'-DDT	0.0981	0.114		ug/L		116	50 - 150
Acenaphthene	0.0981	0.0795	J	ug/L		81	50 - 150
Acenaphthylene	0.0981	0.0802	J	ug/L		82	50 - 150
Acetochlor	0.0981	0.110		ug/L		112	50 - 150
Alachlor	0.0491	0.0572		ug/L		117	50 - 150
alpha-BHC	0.0981	0.0964	J	ug/L		98	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		93	50 - 150
Anthracene	0.0196	0.0219		ug/L		112	50 - 150
Atrazine	0.0491	0.0560		ug/L		114	50 - 150
Benz(a)anthracene	0.0491	0.0592		ug/L		121	50 - 150
Benzo[a]pyrene	0.0196	0.0218		ug/L		111	50 - 150
Benzo[b]fluoranthene	0.0196	0.0219		ug/L		111	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0538		ug/L		110	50 - 150
Benzo[k]fluoranthene	0.0196	0.0215		ug/L		109	50 - 150
beta-BHC	0.0981	0.108		ug/L		110	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.541	J	ug/L		92	50 - 150
Aldrin	0.00981	<0.0098		ug/L		91	50 - 150
Bromacil	0.0981	0.123		ug/L		125	50 - 150
Butachlor	0.0491	0.0662		ug/L		135	50 - 150
Butylbenzylphthalate	0.491	0.556		ug/L		113	50 - 150
Chlorobenzilate	0.0981	0.106		ug/L		108	50 - 150
Chloroneb	0.0981	0.0960	J	ug/L		98	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.0983		ug/L		100	50 - 150
Chlorpyrifos	0.0491	0.0493		ug/L		100	50 - 150
Chrysene	0.0196	0.0188	J	ug/L		96	50 - 150
delta-BHC	0.0981	0.0921	J	ug/L		94	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.637		ug/L		108	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0573		ug/L		117	50 - 150
Diclorvos (DDVP)	0.0491	0.0511		ug/L		104	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-165376/22-A

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.00981	0.00951	J	ug/L		97	50 - 150
Diethylphthalate	0.491	0.484	J	ug/L		99	50 - 150
Dimethylphthalate	0.491	0.476	J	ug/L		97	50 - 150
Di-n-butyl phthalate	0.491	0.613	J	ug/L		125	49 - 243
Di-n-octyl phthalate	0.0981	0.0944	J	ug/L		96	50 - 150
Endosulfan I (Alpha)	0.0981	0.0920	J	ug/L		94	50 - 150
Endosulfan II (Beta)	0.0981	0.111		ug/L		114	50 - 150
Endosulfan sulfate	0.0981	0.107		ug/L		109	50 - 150
Endrin	0.00981	0.0119		ug/L		121	50 - 150
Endrin aldehyde	0.0981	0.0956	J	ug/L		97	50 - 150
EPTC	0.0981	0.0836	J	ug/L		85	50 - 150
Fluoranthene	0.0981	0.0962	J	ug/L		98	50 - 150
Fluorene	0.0491	<0.049		ug/L		92	50 - 150
gamma-BHC (Lindane)	0.00981	0.0117		ug/L		119	50 - 150
gamma-Chlordane	0.0245	0.0227	J	ug/L		93	50 - 150
Heptachlor	0.00981	0.0110		ug/L		112	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.00855	J	ug/L		87	50 - 150
Hexachlorobenzene	0.0491	<0.040		ug/L		81	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0462	J	ug/L		94	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0613		ug/L		125	50 - 150
Isophorone	0.0981	0.0988		ug/L		101	50 - 150
Malathion	0.0981	0.107		ug/L		109	50 - 150
Methoxychlor	0.0491	0.0691		ug/L		141	50 - 150
Metolachlor	0.0491	0.0614		ug/L		125	50 - 150
Molinate	0.0981	0.0911	J	ug/L		93	50 - 150
Naphthalene	0.0981	0.0772	J	ug/L		79	50 - 150
Parathion	0.0981	0.100		ug/L		102	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.104		ug/L		106	50 - 150
Phenanthrene	0.0393	0.0347	J	ug/L		88	50 - 150
Propachlor	0.0491	0.0491		ug/L		100	50 - 150
Pyrene	0.0491	0.0487	J	ug/L		99	50 - 150
Simazine	0.0491	0.0489	J	ug/L		100	50 - 150
Terbacil	0.0981	0.110		ug/L		112	50 - 150
Terbutylazine	0.0981	0.108		ug/L		110	50 - 150
Thiobencarb	0.0981	0.0971	J	ug/L		99	50 - 150
trans-Nonachlor	0.0245	<0.026		ug/L		99	50 - 150
Trifluralin	0.0981	0.103		ug/L		105	50 - 150
1-Methylnaphthalene	0.0981	0.0913	J	ug/L		93	50 - 150
2-Methylnaphthalene	0.0981	0.0872	J	ug/L		89	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	105		70 - 130

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162828-1 MS

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	<0.097		1.97	1.78		ug/L		90	70 - 130
2,4'-DDE	<0.097		1.97	1.62		ug/L		83	70 - 130
2,4'-DDT	<0.097		1.97	1.73		ug/L		88	70 - 130
2,4-Dinitrotoluene	<0.097		1.97	1.82		ug/L		92	70 - 130
2,6-Dinitrotoluene	<0.097		1.97	1.67		ug/L		85	70 - 130
4,4'-DDD	<0.097		1.97	1.71		ug/L		87	70 - 130
4,4'-DDE	<0.097		1.97	1.71		ug/L		87	70 - 130
4,4'-DDT	<0.097		1.97	1.67		ug/L		85	70 - 130
Acenaphthene	<0.097		1.97	1.63		ug/L		83	70 - 130
Acenaphthylene	<0.097		1.97	1.63		ug/L		83	70 - 130
Acetochlor	<0.097		1.97	1.77		ug/L		90	70 - 130
Alachlor	<0.049		1.97	1.97		ug/L		100	70 - 130
alpha-BHC	<0.097		1.97	1.90		ug/L		97	70 - 130
alpha-Chlordane	<0.049		1.97	1.69		ug/L		85	70 - 130
Anthracene	<0.019	F1	1.97	1.10	F1	ug/L		56	70 - 130
Atrazine	<0.049		1.97	1.91		ug/L		97	70 - 130
Benz(a)anthracene	<0.049		1.97	1.65		ug/L		84	70 - 130
Benzo[a]pyrene	<0.019		1.97	1.75		ug/L		89	70 - 130
Benzo[b]fluoranthene	<0.019		1.97	1.78		ug/L		91	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	1.57		ug/L		80	70 - 130
Benzo[k]fluoranthene	<0.019		1.97	1.70		ug/L		86	70 - 130
beta-BHC	<0.097		1.97	2.01		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.97	1.80		ug/L		91	70 - 130
Aldrin	<0.0097		1.97	1.55		ug/L		79	70 - 130
Bromacil	<0.097		1.97	1.80		ug/L		89	70 - 130
Butachlor	<0.049		1.97	1.88		ug/L		96	70 - 130
Butylbenzylphthalate	<0.49		1.97	1.96		ug/L		100	70 - 130
Chlorobenzilate	<0.097		1.97	1.81		ug/L		92	70 - 130
Chloroneb	<0.097		1.97	1.66		ug/L		85	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.97	1.63		ug/L		83	70 - 130
Chlorpyrifos	<0.049		1.97	1.92		ug/L		98	70 - 130
Chrysene	<0.019		1.97	1.68		ug/L		86	70 - 130
delta-BHC	<0.097		1.97	1.79		ug/L		91	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.97	1.90		ug/L		97	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.63		ug/L		83	70 - 130
Diclorvos (DDVP)	<0.049		1.97	1.78		ug/L		91	70 - 130
Dieldrin	0.058		1.97	1.83		ug/L		90	70 - 130
Diethylphthalate	<0.49		1.97	1.93		ug/L		98	70 - 130
Dimethylphthalate	<0.49		1.97	1.86		ug/L		95	70 - 130
Di-n-butyl phthalate	<0.97		3.93	3.85		ug/L		98	70 - 130
Di-n-octyl phthalate	<0.097		1.97	1.70		ug/L		86	70 - 130
Endosulfan I (Alpha)	<0.097		1.97	1.86		ug/L		94	70 - 130
Endosulfan II (Beta)	<0.097		1.97	1.92		ug/L		97	70 - 130
Endosulfan sulfate	<0.097		1.97	1.70		ug/L		87	70 - 130
Endrin	<0.0097		1.97	1.81		ug/L		92	70 - 130
Endrin aldehyde	<0.097		1.97	1.61		ug/L		82	60 - 130
EPTC	<0.097		1.97	1.69		ug/L		86	70 - 130
Fluoranthene	<0.097		1.97	1.79		ug/L		91	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162828-1 MS

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	<0.049		1.97	1.75		ug/L		89	70 - 130
gamma-BHC (Lindane)	<0.0097		1.97	1.91		ug/L		97	70 - 130
gamma-Chlordane	<0.049		1.97	1.65		ug/L		83	70 - 130
Heptachlor	<0.0097		1.97	1.66		ug/L		84	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.97	1.83		ug/L		93	70 - 130
Hexachlorobenzene	<0.049		1.97	1.69		ug/L		86	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.74		ug/L		88	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	1.66		ug/L		84	70 - 130
Isophorone	<0.097		1.97	1.66		ug/L		84	70 - 130
Malathion	<0.097		1.97	1.78		ug/L		90	70 - 130
Methoxychlor	<0.049		1.97	1.84		ug/L		94	70 - 130
Metolachlor	<0.049		1.97	1.83		ug/L		93	70 - 130
Molinate	<0.097		1.97	1.81		ug/L		92	70 - 130
Naphthalene	<0.097		1.97	1.51		ug/L		77	70 - 130
Parathion	<0.097		1.97	1.85		ug/L		94	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.97	1.80		ug/L		92	70 - 130
Phenanthrene	<0.039		1.97	1.62		ug/L		82	70 - 130
Propachlor	<0.049		1.97	2.03		ug/L		103	70 - 130
Pyrene	<0.049		1.97	1.86		ug/L		94	70 - 130
Simazine	<0.049		1.97	1.93		ug/L		98	70 - 130
Terbacil	<0.097		1.97	1.74		ug/L		88	70 - 130
Terbutylazine	<0.097		1.97	1.88		ug/L		96	70 - 130
Thiobencarb	<0.097		1.97	1.75		ug/L		89	70 - 130
trans-Nonachlor	<0.049		1.97	1.73		ug/L		87	70 - 130
Trifluralin	<0.097		1.97	1.65		ug/L		84	70 - 130
1-Methylnaphthalene	<0.097		1.97	1.53		ug/L		78	70 - 130
2-Methylnaphthalene	<0.097		1.97	1.56		ug/L		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-162828-1 MSD

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4'-DDD	<0.097		1.94	1.75		ug/L		90	70 - 130	1	20
2,4'-DDE	<0.097		1.94	1.55		ug/L		80	70 - 130	4	20
2,4'-DDT	<0.097		1.94	1.69		ug/L		87	70 - 130	2	20
2,4-Dinitrotoluene	<0.097		1.94	1.73		ug/L		89	70 - 130	5	20
2,6-Dinitrotoluene	<0.097		1.94	1.63		ug/L		84	70 - 130	2	20
4,4'-DDD	<0.097		1.94	1.70		ug/L		87	70 - 130	1	20
4,4'-DDE	<0.097		1.94	1.70		ug/L		88	70 - 130	0	20
4,4'-DDT	<0.097		1.94	1.69		ug/L		87	70 - 130	1	20
Acenaphthene	<0.097		1.94	1.56		ug/L		80	70 - 130	5	20
Acenaphthylene	<0.097		1.94	1.68		ug/L		86	70 - 130	3	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162828-1 MSD

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetochlor	<0.097		1.94	1.70		ug/L		87	70 - 130	4	20
Alachlor	<0.049		1.94	1.87		ug/L		96	70 - 130	5	20
alpha-BHC	<0.097		1.94	1.70		ug/L		88	70 - 130	11	20
alpha-Chlordane	<0.049		1.94	1.67		ug/L		85	70 - 130	1	20
Anthracene	<0.019	F1	1.94	1.17	F1	ug/L		60	70 - 130	6	20
Atrazine	<0.049		1.94	1.63		ug/L		84	70 - 130	16	20
Benz(a)anthracene	<0.049		1.94	1.72		ug/L		88	70 - 130	4	20
Benzo[a]pyrene	<0.019		1.94	1.81		ug/L		93	70 - 130	3	20
Benzo[b]fluoranthene	<0.019		1.94	1.75		ug/L		90	70 - 130	1	20
Benzo[g,h,i]perylene	<0.049		1.94	1.64		ug/L		84	70 - 130	4	20
Benzo[k]fluoranthene	<0.019		1.94	1.72		ug/L		89	70 - 130	1	20
beta-BHC	<0.097		1.94	1.79		ug/L		92	70 - 130	12	20
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.82		ug/L		94	70 - 130	1	20
Aldrin	<0.0097		1.94	1.57		ug/L		81	70 - 130	2	20
Bromacil	<0.097		1.94	1.81		ug/L		91	70 - 130	0	20
Butachlor	<0.049		1.94	1.81		ug/L		93	70 - 130	4	20
Butylbenzylphthalate	<0.49		1.94	1.92		ug/L		99	70 - 130	2	20
Chlorobenzilate	<0.097		1.94	1.77		ug/L		91	70 - 130	2	20
Chloroneb	<0.097		1.94	1.56		ug/L		80	70 - 130	6	20
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	1.53		ug/L		79	70 - 130	6	20
Chlorpyrifos	<0.049		1.94	1.79		ug/L		92	70 - 130	7	20
Chrysene	<0.019		1.94	1.65		ug/L		85	70 - 130	2	20
delta-BHC	<0.097		1.94	1.73		ug/L		89	70 - 130	4	20
Di(2-ethylhexyl)adipate	<0.58		1.94	1.95		ug/L		100	70 - 130	2	20
Dibenz(a,h)anthracene	<0.049		1.94	1.64		ug/L		84	70 - 130	1	20
Diclorvos (DDVP)	<0.049		1.94	1.73		ug/L		89	70 - 130	3	20
Dieldrin	0.058		1.94	1.89		ug/L		94	70 - 130	3	20
Diethylphthalate	<0.49		1.94	1.75		ug/L		90	70 - 130	10	20
Dimethylphthalate	<0.49		1.94	1.72		ug/L		89	70 - 130	8	20
Di-n-butyl phthalate	<0.97		3.89	3.50		ug/L		90	70 - 130	10	20
Di-n-octyl phthalate	<0.097		1.94	1.76		ug/L		91	70 - 130	3	20
Endosulfan I (Alpha)	<0.097		1.94	1.83		ug/L		94	70 - 130	2	20
Endosulfan II (Beta)	<0.097		1.94	1.86		ug/L		96	70 - 130	3	20
Endosulfan sulfate	<0.097		1.94	1.67		ug/L		86	70 - 130	2	20
Endrin	<0.0097		1.94	1.81		ug/L		93	70 - 130	0	20
Endrin aldehyde	<0.097		1.94	1.57		ug/L		81	60 - 130	3	20
EPTC	<0.097		1.94	1.72		ug/L		89	70 - 130	2	20
Fluoranthene	<0.097		1.94	1.70		ug/L		88	70 - 130	5	20
Fluorene	<0.049		1.94	1.70		ug/L		88	70 - 130	3	20
gamma-BHC (Lindane)	<0.0097		1.94	1.68		ug/L		87	70 - 130	13	20
gamma-Chlordane	<0.049		1.94	1.56		ug/L		80	70 - 130	5	20
Heptachlor	<0.0097		1.94	1.62		ug/L		83	70 - 130	2	20
Heptachlor epoxide (isomer B)	<0.0097		1.94	1.66		ug/L		85	70 - 130	10	20
Hexachlorobenzene	<0.049		1.94	1.52		ug/L		78	70 - 130	10	20
Hexachlorocyclopentadiene	<0.049		1.94	1.67		ug/L		86	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	<0.049		1.94	1.66		ug/L		86	70 - 130	0	20
Isophorone	<0.097		1.94	1.63		ug/L		84	70 - 130	1	20
Malathion	<0.097		1.94	1.66		ug/L		85	70 - 130	7	20
Methoxychlor	<0.049		1.94	1.76		ug/L		90	70 - 130	5	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162828-1 MSD

Matrix: Water

Analysis Batch: 165594

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Prep Batch: 165376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Metolachlor	<0.049		1.94	1.69		ug/L		87	70 - 130	8	20
Molinate	<0.097		1.94	1.74		ug/L		89	70 - 130	4	20
Naphthalene	<0.097		1.94	1.54		ug/L		79	70 - 130	2	20
Parathion	<0.097		1.94	1.80		ug/L		93	70 - 130	3	20
Pendimethalin (Penoxaline)	<0.097		1.94	1.74		ug/L		89	70 - 130	3	20
Phenanthrene	<0.039		1.94	1.63		ug/L		84	70 - 130	1	20
Propachlor	<0.049		1.94	1.81		ug/L		93	70 - 130	12	20
Pyrene	<0.049		1.94	1.85		ug/L		95	70 - 130	0	20
Simazine	<0.049		1.94	1.74		ug/L		89	70 - 130	11	20
Terbacil	<0.097		1.94	1.71		ug/L		88	70 - 130	2	20
Terbutylazine	<0.097		1.94	1.66		ug/L		86	70 - 130	12	20
Thiobencarb	<0.097		1.94	1.65		ug/L		85	70 - 130	6	20
trans-Nonachlor	<0.049		1.94	1.70		ug/L		87	70 - 130	2	20
Trifluralin	<0.097		1.94	1.51		ug/L		78	70 - 130	9	20
1-Methylnaphthalene	<0.097		1.94	1.56		ug/L		81	70 - 130	3	20
2-Methylnaphthalene	<0.097		1.94	1.59		ug/L		82	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	111		70 - 130

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

Lab Sample ID: MB 570-604213/1-A

Matrix: Water

Analysis Batch: 610608

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 604213

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/29/25 18:46	08/12/25 17:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139	07/29/25 18:46	08/12/25 17:02	1
2-Fluorobiphenyl (Surr)	69		33 - 126	07/29/25 18:46	08/12/25 17:02	1
2-Fluorophenol (Surr)	50		12 - 120	07/29/25 18:46	08/12/25 17:02	1
Nitrobenzene-d5 (Surr)	77		36 - 120	07/29/25 18:46	08/12/25 17:02	1
Phenol-d6 (Surr)	27		10 - 120	07/29/25 18:46	08/12/25 17:02	1
p-Terphenyl-d14 (Surr)	80		47 - 131	07/29/25 18:46	08/12/25 17:02	1

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

Lab Sample ID: MB 570-606111/10

Matrix: Water

Analysis Batch: 606111

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 14:28	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: MB 570-606111/10

Matrix: Water

Analysis Batch: 606111

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	77		38 - 134		08/02/25 14:28	1				

Lab Sample ID: LCS 570-606111/1008

Matrix: Water

Analysis Batch: 606111

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	387		ug/L		97	78 - 120		
Surrogate	LCS	LCS									
%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	99		38 - 134								

Lab Sample ID: LCSD 570-606111/9

Matrix: Water

Analysis Batch: 606111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	392		ug/L		98	78 - 120	1	10
Surrogate	LCSD	LCSD									
%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	93		38 - 134								

Lab Sample ID: MRL 570-606111/11

Matrix: Water

Analysis Batch: 606111

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	8.73	J	ug/L		87	50 - 150		
Surrogate	MRL	MRL									
%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	79		38 - 134								

Lab Sample ID: 380-162172-B-1 MS

Matrix: Water

Analysis Batch: 606111

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	398		ug/L		100	68 - 122		
Surrogate	MS	MS									
%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	99		38 - 134								

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162172-B-1 MSD

Matrix: Water

Analysis Batch: 606111

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	409		ug/L		102	68 - 122	3	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		38 - 134								

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MBL 380-165375/4-A

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165375

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.0040		0.020	ug/L		07/28/25 16:47	07/29/25 05:51	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.010	ug/L		07/28/25 16:47	07/29/25 05:51	1
1,2-Dibromoethane	<0.0040		0.010	ug/L		07/28/25 16:47	07/29/25 05:51	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1,2-Dibromopropane (Surr)	93		60 - 140	07/28/25 16:47	07/29/25 05:51	1		

Lab Sample ID: LCS 380-165375/29-A

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165375

			Spike	LCS	LCS	%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
1,2,3-Trichloropropane			0.200	0.216		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane			0.200	0.192		ug/L		96	70 - 130
1,2-Dibromoethane			0.200	0.204		ug/L		102	70 - 130

Lab Sample ID: MRL 380-165375/2-A

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165375

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.0200	0.0155	J	ug/L		77	60 - 140		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
1,2-Dibromopropane (Surr)	93		60 - 140								

Lab Sample ID: MRL 380-165375/3-A

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165375

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane	0.0500	0.0453		ug/L		91	60 - 140		

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 380-165375/3-A

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165375

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0100	0.00842	J	ug/L		84	60 - 140
1,2-Dibromoethane	0.0100	0.00847	J	ug/L		85	60 - 140
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
1,2-Dibromopropane (Surr)	93		60 - 140				

Lab Sample ID: 380-162664-X-1-A MS

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165375

Analysis Date: 10/09/17										Prep Date: 10/09/17	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane	<0.020		1.26	1.23		ug/L		97	65 - 135		
1,2-Dibromo-3-Chloropropane	<0.010		0.252	0.220		ug/L		87	65 - 135		
1,2-Dibromoethane	<0.010		0.252	0.229		ug/L		91	65 - 135		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1,2-Dibromopropane (Surr)	93		60 - 140								

Lab Sample ID: 380-162192-DJ-1-A DU

Matrix: Water

Analysis Batch: 165654

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 165375

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1,2,3-Trichloropropane	<0.020		<0.020		ug/L		NC	20
1,2-Dibromo-3-Chloropropane	<0.010		<0.010		ug/L		NC	20
1,2-Dibromoethane	<0.010		<0.010		ug/L		NC	20
Surrogate	DU %Recovery	DU Qualifier	Limits					
1,2-Dibromopropane (Surr)	93		60 - 140					

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 380-165833/3-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.50		0.50	ug/L		07/30/25 12:39	07/30/25 14:47	1
Chlordane (n.o.s.)	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1016	<0.070		0.070	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1221	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1232	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1242	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1248	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1254	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1
PCB-1260	<0.070		0.070	ug/L		07/30/25 12:39	07/30/25 14:47	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		07/30/25 12:39	07/30/25 14:47	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MB 380-165833/3-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165833

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Tetrachloro-m-xylene	97		70 - 130	07/30/25 12:39	07/30/25 14:47	1				

Lab Sample ID: LCS 380-165833/28-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			2.50	2.62		ug/L		105	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits								
Tetrachloro-m-xylene	99		70 - 130								

Lab Sample ID: LCS 380-165833/30-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlordane (n.o.s.)			0.500	0.532		ug/L		106	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits								
Tetrachloro-m-xylene	102		70 - 130								

Lab Sample ID: LCS 380-165833/31-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1232			0.500	0.501		ug/L		100	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits								
Tetrachloro-m-xylene	93		70 - 130								

Lab Sample ID: LCSD 380-165833/29-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 165833

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene			2.50	2.60		ug/L		104	70 - 130	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits								
Tetrachloro-m-xylene	102		70 - 130								

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MRL 380-165833/1-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165833

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene			0.500	0.535		ug/L		107	50 - 150
Surrogate	%Recovery	MRL Qualifier	Limits						
Tetrachloro-m-xylene	100		70 - 130						

Lab Sample ID: MRL 380-165833/2-A

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165833

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)			0.100	0.118		ug/L		118	50 - 150
Surrogate	%Recovery	MRL Qualifier	Limits						
Tetrachloro-m-xylene	90		70 - 130						

Lab Sample ID: 380-162683-C-1-A MS

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	<0.50		2.51	2.46		ug/L		98	65 - 135
Surrogate	%Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	104		70 - 130						

Lab Sample ID: 380-162683-D-1-A MS

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	<0.10		0.509	0.516		ug/L		101	65 - 135
Surrogate	%Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	106		70 - 130						

Lab Sample ID: 380-162688-C-1-A MS

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	<0.51		2.50	2.30		ug/L		92	65 - 135
Surrogate	%Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	102		70 - 130						

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: 380-162688-D-1-A MS

Matrix: Water

Analysis Batch: 166097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	<0.10		0.494	0.511		ug/L		103	65 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	106		70 - 130						

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

Lab Sample ID: MB 570-603290/1-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 603290

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
C8-C18	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		60 - 130			07/28/25 09:17	08/05/25 00:25	1

Lab Sample ID: LCS 570-603290/2-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1590		ug/L		100	56 - 127
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	101		60 - 130				

Lab Sample ID: LCSD 570-603290/3-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1520		ug/L		95	56 - 127	5	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	103		60 - 130						

Lab Sample ID: MRL 570-603290/4-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0237	J	mg/L		119	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: MRL 570-603290/4-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	107		60 - 130

Lab Sample ID: 380-162172-C-1-A MS

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1660	1710		ug/L		103	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	111		60 - 130						

Lab Sample ID: 380-162172-C-1-B MSD

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1680	1640		ug/L		98	70 - 130	4	20
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	105		60 - 130								

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 570-608051/3

Matrix: Water

Analysis Batch: 608051

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10		0.10	mg/L			08/06/25 20:22	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	102		54 - 120				08/06/25 20:22	1

Lab Sample ID: LCS 570-608051/5

Matrix: Water

Analysis Batch: 608051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	2.00	2.74	*+	mg/L		137	78 - 131
Surrogate	%Recovery	LCS Qualifier	Limits				
Hexafluoro-2-propanol (Surr)	103		54 - 120				

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCSD 570-608051/6

Matrix: Water

Analysis Batch: 608051

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethanol			2.00	2.77	*+	mg/L		139	78 - 131	1	25
Surrogate	%Recovery	LCSD Qualifier	Limits								
Hexafluoro-2-propanol (Surr)	102		54 - 120								

Lab Sample ID: MRL 570-608051/4

Matrix: Water

Analysis Batch: 608051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethanol			0.100	0.0900	J	mg/L	-	90	50 - 150		
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
Hexafluoro-2-propanol (Surr)	107		54 - 120								

Lab Sample ID: 380-162828-1 MS

Matrix: Water

Analysis Batch: 608051

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Analysis Date: 060607										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Ethanol	<0.10	*+	2.00	3.02		mg/L	-	151	20 - 173	
Surrogate	MS %Recovery	MS Qualifier	Limits							
Hexafluoro-2-propanol (Surr)	102		54 - 120							

Lab Sample ID: 380-162828-1 MSD

Matrix: Water

Analysis Batch: 608051

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethanol	<0.10	*+	2.00	3.17		mg/L		159	20 - 173	5	21
Surrogate	%Recovery	MSD Qualifier	Limits								
Hexafluoro-2-propanol (Surr)	99		54 - 120								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-165183/41

Matrix: Water

Analysis Batch: 165183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	mg/L			07/26/25 01:40	1
Nitrite as N	<0.050		0.050	mg/L			07/26/25 01:40	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 380-165183/44

Matrix: Water

Analysis Batch: 165183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.61		mg/L		104	90 - 110
Nitrite as N	1.00	0.996		mg/L		100	90 - 110

Lab Sample ID: LCSD 380-165183/45

Matrix: Water

Analysis Batch: 165183

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.60		mg/L		104	90 - 110	0	20
Nitrite as N	1.00	1.00		mg/L		100	90 - 110	1	20

Lab Sample ID: MRL 380-165183/43

Matrix: Water

Analysis Batch: 165183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0466	J	mg/L		93	50 - 150
Nitrite as N	0.0500	0.0372	J	mg/L		74	50 - 150

Lab Sample ID: 380-162687-K-1 MS

Matrix: Water

Analysis Batch: 165183

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
Nitrate as N	0.32		1.25	1.62		mg/L		104	80 - 120
Nitrite as N	<0.050		0.500	0.481		mg/L		96	80 - 120

Lab Sample ID: 380-162687-K-1 MSD

Matrix: Water

Analysis Batch: 165183

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
Nitrate as N	0.32		1.25	1.63		mg/L		105	80 - 120	0	20
Nitrite as N	<0.050		0.500	0.482		mg/L		96	80 - 120	0	20

Lab Sample ID: MB 380-165184/41

Matrix: Water

Analysis Batch: 165184

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50		0.50	mg/L			07/26/25 01:40	1
Sulfate	<0.25		0.25	mg/L			07/26/25 01:40	1

Lab Sample ID: LCS 380-165184/44

Matrix: Water

Analysis Batch: 165184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.5		mg/L		102	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 380-165184/45

Matrix: Water

Analysis Batch: 165184

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.4		mg/L		102	90 - 110	0	20
Sulfate	50.0	51.3		mg/L		103	90 - 110	0	20

Lab Sample ID: MRL 380-165184/42

Matrix: Water

Analysis Batch: 165184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	0.125	0.121	J	mg/L		97	50 - 150		
Sulfate	0.250	0.225	J	mg/L		90	50 - 150		

Lab Sample ID: MRL 380-165184/43

Matrix: Water

Analysis Batch: 165184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	0.500	0.453	J	mg/L		91	50 - 150		
Sulfate	1.00	0.920		mg/L		92	50 - 150		

Lab Sample ID: 380-162687-K-1 MS

Matrix: Water

Analysis Batch: 165184

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		
Chloride	16		12.5	28.7		mg/L		104	80 - 120		
Sulfate	89		25.0	113	E	mg/L		99	80 - 120		

Lab Sample ID: 380-162687-K-1 MSD

Matrix: Water

Analysis Batch: 165184

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
Chloride	16		12.5	28.8		mg/L		105	80 - 120	0	20
Sulfate	89		25.0	113	E	mg/L		100	80 - 120	0	20

Lab Sample ID: MB 380-165224/5

Matrix: Water

Analysis Batch: 165224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	mg/L			07/26/25 15:54	1
Nitrite as N	<0.050		0.050	mg/L			07/26/25 15:54	1

Lab Sample ID: LCS 380-165224/7

Matrix: Water

Analysis Batch: 165224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	2.50	2.48		mg/L		99	90 - 110		
Nitrite as N	1.00	0.978		mg/L		98	90 - 110		

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 380-165224/8

Matrix: Water

Analysis Batch: 165224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.49		mg/L		100	90 - 110	1	20
Nitrite as N	1.00	0.978		mg/L		98	90 - 110	0	20

Lab Sample ID: MRL 380-165224/6

Matrix: Water

Analysis Batch: 165224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.0500	0.0467	J	mg/L		93	50 - 150		
Nitrite as N	0.0500	0.0486	J	mg/L		97	50 - 150		

Lab Sample ID: 380-162853-AF-3 MS

Matrix: Water

Analysis Batch: 165224

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	RPD	RPD Limit
Nitrate as N	<0.050		1.25	1.17		mg/L		93	80 - 120		
Nitrite as N	<0.050		0.500	0.457		mg/L		91	80 - 120		

Lab Sample ID: 380-162853-AF-3 MSD

Matrix: Water

Analysis Batch: 165224

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
Nitrate as N	<0.050		1.25	1.14		mg/L		92	80 - 120	2	20
Nitrite as N	<0.050		0.500	0.448		mg/L		90	80 - 120	2	20

Lab Sample ID: MB 380-165225/5

Matrix: Water

Analysis Batch: 165225

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50		0.50	mg/L			07/26/25 15:54	1
Sulfate	<0.25		0.25	mg/L			07/26/25 15:54	1

Lab Sample ID: LCS 380-165225/7

Matrix: Water

Analysis Batch: 165225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.6		mg/L		102	90 - 110		
Sulfate	50.0	49.9		mg/L		100	90 - 110		

Lab Sample ID: LCSD 380-165225/8

Matrix: Water

Analysis Batch: 165225

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.6		mg/L		103	90 - 110	0	20
Sulfate	50.0	50.0		mg/L		100	90 - 110	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-165225/6

Matrix: Water

Analysis Batch: 165225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.427	J	mg/L		85	50 - 150
Sulfate	0.250	0.230	J	mg/L		92	50 - 150

Lab Sample ID: 380-162853-AF-3 MS

Matrix: Water

Analysis Batch: 165225

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
Chloride	0.59		12.5	12.4		mg/L		95	80 - 120
Sulfate	23		25.0	47.3		mg/L		96	80 - 120

Lab Sample ID: 380-162853-AF-3 MSD

Matrix: Water

Analysis Batch: 165225

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
Chloride	0.59		12.5	12.2		mg/L		93	80 - 120	2	20
Sulfate	23		25.0	46.9		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 380-165458/14

Matrix: Water

Analysis Batch: 165458

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<5.0		5.0	ug/L			07/28/25 20:29	1

Lab Sample ID: LCS 380-165458/15

Matrix: Water

Analysis Batch: 165458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	96.9		ug/L		97	90 - 110

Lab Sample ID: LCSD 380-165458/16

Matrix: Water

Analysis Batch: 165458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	100	96.5		ug/L		96	90 - 110	0	10

Lab Sample ID: MRL 380-165458/13

Matrix: Water

Analysis Batch: 165458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	4.62	J	ug/L		92	75 - 125

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 380-162484-A-1 MS

Matrix: Water

Analysis Batch: 165458

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
Bromide	18	F1 F2	50.0	73.0		ug/L		110	80 - 120

Lab Sample ID: 380-162484-A-1 MSD

Matrix: Water

Analysis Batch: 165458

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
Bromide	18	F1 F2	50.0	54.8	F1 F2	ug/L		74	80 - 120	28	20

Lab Sample ID: MB 380-166014/5

Matrix: Water

Analysis Batch: 166014

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<5.0		5.0	ug/L			07/30/25 21:29	1

Lab Sample ID: LCS 380-166014/6

Matrix: Water

Analysis Batch: 166014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	96.0		ug/L		96	90 - 110

Lab Sample ID: LCSD 380-166014/7

Matrix: Water

Analysis Batch: 166014

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	100	95.8		ug/L		96	90 - 110	0	10

Lab Sample ID: MRL 380-166014/8

Matrix: Water

Analysis Batch: 166014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	5.88		ug/L		118	75 - 125

Lab Sample ID: 380-162665-EC-1 MS

Matrix: Water

Analysis Batch: 166014

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
Bromide	<5.0		50.0	48.2		ug/L		96	80 - 120

Lab Sample ID: 380-162665-EC-1 MSD

Matrix: Water

Analysis Batch: 166014

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
Bromide	<5.0		50.0	48.0		ug/L		96	80 - 120	0	20

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MBL 380-165421/90

Matrix: Water

Analysis Batch: 165421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0763	J B	0.10	mg/L			07/28/25 14:48	1
Magnesium	<0.0099		0.10	mg/L			07/28/25 14:48	1
Potassium	<0.044		0.10	mg/L			07/28/25 14:48	1
Sodium	<0.019		0.10	mg/L			07/28/25 14:48	1

Lab Sample ID: LCS 380-165421/92

Matrix: Water

Analysis Batch: 165421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	49.7		mg/L		99	85 - 115
Magnesium	20.0	20.2		mg/L		101	85 - 115
Potassium	20.0	20.1		mg/L		101	85 - 115
Sodium	50.0	50.1		mg/L		100	85 - 115

Lab Sample ID: LCSD 380-165421/93

Matrix: Water

Analysis Batch: 165421

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	50.0	49.5		mg/L		99	85 - 115	0	20
Magnesium	20.0	20.1		mg/L		100	85 - 115	1	20
Potassium	20.0	20.0		mg/L		100	85 - 115	0	20
Sodium	50.0	49.8		mg/L		100	85 - 115	0	20

Lab Sample ID: LLCS 380-165421/91

Matrix: Water

Analysis Batch: 165421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.100	0.0935	J	mg/L		93	50 - 150
Magnesium	0.100	0.0953	J	mg/L		95	50 - 150
Potassium	0.100	0.119		mg/L		119	50 - 150
Sodium	0.100	0.0992	J	mg/L		99	50 - 150

Lab Sample ID: 380-162818-B-8 MS

Matrix: Water

Analysis Batch: 165421

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
Calcium	3.9	^2 B	50.0	51.4		mg/L		95	70 - 130
Magnesium	1.9	^2	20.0	21.3		mg/L		97	70 - 130
Potassium	0.75	^2	20.0	20.3		mg/L		98	70 - 130
Sodium	44		50.0	90.9		mg/L		93	70 - 130

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162818-B-8 MSD

Matrix: Water

Analysis Batch: 165421

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
Calcium	3.9	^2 B	50.0	52.3		mg/L		97	70 - 130	2	20
Magnesium	1.9	^2	20.0	21.7		mg/L		99	70 - 130	2	20
Potassium	0.75	^2	20.0	20.6		mg/L		99	70 - 130	2	20
Sodium	44		50.0	91.6		mg/L		95	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MBL 380-165352/149

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.48		1.0	ug/L			07/26/25 19:29	1
Arsenic	<0.25		1.0	ug/L			07/26/25 19:29	1
Beryllium	<0.12		0.30	ug/L			07/26/25 19:29	1
Cadmium	<0.081		0.50	ug/L			07/26/25 19:29	1
Chromium	<0.33		0.90	ug/L			07/26/25 19:29	1
Copper	<0.28		1.0	ug/L			07/26/25 19:29	1
Lead	<0.084		0.50	ug/L			07/26/25 19:29	1
Nickel	<0.38		1.0	ug/L			07/26/25 19:29	1
Selenium	<0.25		2.0	ug/L			07/26/25 19:29	1
Silver	<0.30		0.50	ug/L			07/26/25 19:29	1
Thallium	<0.10		0.30	ug/L			07/26/25 19:29	1
Zinc	<1.3		5.0	ug/L			07/26/25 19:29	1

Lab Sample ID: LCS 380-165352/151

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	50.7		ug/L		101	85 - 115
Arsenic	50.0	51.9		ug/L		104	85 - 115
Beryllium	50.0	54.2		ug/L		108	85 - 115
Cadmium	50.0	50.7		ug/L		101	85 - 115
Chromium	50.0	49.7		ug/L		99	85 - 115
Copper	50.0	49.5		ug/L		99	85 - 115
Lead	50.0	51.4		ug/L		103	85 - 115
Nickel	50.0	49.4		ug/L		99	85 - 115
Selenium	50.0	51.3		ug/L		103	85 - 115
Silver	50.0	50.8		ug/L		102	85 - 115
Thallium	50.0	51.3		ug/L		103	85 - 115
Zinc	50.0	49.1		ug/L		98	85 - 115

Lab Sample ID: LCSD 380-165352/152

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	50.0	51.0		ug/L		102	85 - 115	1	20

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: LCSD 380-165352/152

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	50.0	52.0		ug/L		104	85 - 115	0	20
Beryllium	50.0	54.5		ug/L		109	85 - 115	1	20
Cadmium	50.0	50.8		ug/L		102	85 - 115	0	20
Chromium	50.0	49.8		ug/L		100	85 - 115	0	20
Copper	50.0	49.4		ug/L		99	85 - 115	0	20
Lead	50.0	50.7		ug/L		101	85 - 115	1	20
Nickel	50.0	49.6		ug/L		99	85 - 115	0	20
Selenium	50.0	51.2		ug/L		102	85 - 115	0	20
Silver	50.0	51.1		ug/L		102	85 - 115	1	20
Thallium	50.0	51.0		ug/L		102	85 - 115	1	20
Zinc	50.0	49.2		ug/L		98	85 - 115	0	20

Lab Sample ID: LLCS 380-165352/150

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	1.00	1.05		ug/L		105	50 - 150		
Arsenic	1.00	1.07		ug/L		107	50 - 150		
Beryllium	0.300	0.320		ug/L		107	50 - 150		
Cadmium	0.500	0.447	J	ug/L		89	50 - 150		
Chromium	0.900	0.910		ug/L		101	50 - 150		
Copper	1.00	0.995	J	ug/L		100	50 - 150		
Lead	0.500	0.530		ug/L		106	50 - 150		
Nickel	1.00	0.984	J	ug/L		98	50 - 150		
Selenium	2.00	2.04		ug/L		102	50 - 150		
Silver	0.500	0.511		ug/L		102	50 - 150		
Thallium	0.300	0.312		ug/L		104	50 - 150		
Zinc	5.00	4.89	J	ug/L		98	50 - 150		

Lab Sample ID: 380-162828-1 MS

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<1.0		50.0	57.4		ug/L		115	70 - 130		
Arsenic	<1.0		50.0	57.4		ug/L		114	70 - 130		
Beryllium	<0.30		50.0	47.0		ug/L		94	70 - 130		
Cadmium	<0.50		50.0	52.9		ug/L		106	70 - 130		
Chromium	1.4		50.0	50.6		ug/L		98	70 - 130		
Copper	2.6		50.0	49.6		ug/L		94	70 - 130		
Lead	<0.50		50.0	49.4		ug/L		99	70 - 130		
Nickel	<1.0		50.0	48.1		ug/L		95	70 - 130		
Selenium	3.6		50.0	64.3		ug/L		121	70 - 130		
Silver	<0.50		50.0	49.0		ug/L		98	70 - 130		
Thallium	<0.30		50.0	50.3		ug/L		101	70 - 130		
Zinc	17		50.0	68.9		ug/L		104	70 - 130		

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162828-1 MSD

Matrix: Water

Analysis Batch: 165352

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<1.0		50.0	60.4		ug/L		121	70 - 130	5	20
Arsenic	<1.0		50.0	59.5		ug/L		118	70 - 130	4	20
Beryllium	<0.30		50.0	48.2		ug/L		96	70 - 130	3	20
Cadmium	<0.50		50.0	54.6		ug/L		109	70 - 130	3	20
Chromium	1.4		50.0	52.0		ug/L		101	70 - 130	3	20
Copper	2.6		50.0	51.2		ug/L		97	70 - 130	3	20
Lead	<0.50		50.0	51.2		ug/L		102	70 - 130	4	20
Nickel	<1.0		50.0	49.7		ug/L		98	70 - 130	3	20
Selenium	3.6		50.0	66.7		ug/L		126	70 - 130	4	20
Silver	<0.50		50.0	47.6		ug/L		95	70 - 130	3	20
Thallium	<0.30		50.0	52.2		ug/L		104	70 - 130	4	20
Zinc	17		50.0	70.6		ug/L		107	70 - 130	2	20

Lab Sample ID: MBL 380-165708/45

Matrix: Water

Analysis Batch: 165708

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.48		1.0	ug/L			07/29/25 12:41	1
Arsenic	<0.25		1.0	ug/L			07/29/25 12:41	1
Beryllium	<0.12		0.30	ug/L			07/29/25 12:41	1
Cadmium	<0.081		0.50	ug/L			07/29/25 12:41	1
Chromium	<0.33		0.90	ug/L			07/29/25 12:41	1
Copper	<0.28		1.0	ug/L			07/29/25 12:41	1
Lead	<0.084		0.50	ug/L			07/29/25 12:41	1
Nickel	<0.38		1.0	ug/L			07/29/25 12:41	1
Selenium	<0.25		2.0	ug/L			07/29/25 12:41	1
Silver	<0.30		0.50	ug/L			07/29/25 12:41	1
Thallium	<0.10		0.30	ug/L			07/29/25 12:41	1
Zinc	<1.3		5.0	ug/L			07/29/25 12:41	1

Lab Sample ID: LCS 380-165708/49

Matrix: Water

Analysis Batch: 165708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	50.4		ug/L		101	85 - 115
Arsenic	50.0	51.8		ug/L		104	85 - 115
Beryllium	50.0	50.5		ug/L		101	85 - 115
Cadmium	50.0	50.5		ug/L		101	85 - 115
Chromium	50.0	49.7		ug/L		99	85 - 115
Copper	50.0	50.0		ug/L		100	85 - 115
Lead	50.0	51.0		ug/L		102	85 - 115
Nickel	50.0	49.6		ug/L		99	85 - 115
Selenium	50.0	50.1		ug/L		100	85 - 115
Silver	50.0	50.7		ug/L		101	85 - 115
Thallium	50.0	51.3		ug/L		103	85 - 115
Zinc	50.0	49.2		ug/L		98	85 - 115

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: LCSD 380-165708/50

Matrix: Water

Analysis Batch: 165708

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	50.0	50.9		ug/L		102	85 - 115	1	20
Arsenic	50.0	52.0		ug/L		104	85 - 115	0	20
Beryllium	50.0	50.6		ug/L		101	85 - 115	0	20
Cadmium	50.0	50.4		ug/L		101	85 - 115	0	20
Chromium	50.0	49.8		ug/L		100	85 - 115	0	20
Copper	50.0	49.8		ug/L		100	85 - 115	1	20
Lead	50.0	50.6		ug/L		101	85 - 115	1	20
Nickel	50.0	49.5		ug/L		99	85 - 115	0	20
Selenium	50.0	50.5		ug/L		101	85 - 115	1	20
Silver	50.0	50.9		ug/L		102	85 - 115	0	20
Thallium	50.0	51.2		ug/L		102	85 - 115	0	20
Zinc	50.0	49.2		ug/L		98	85 - 115	0	20

Lab Sample ID: LLCS 380-165708/48

Matrix: Water

Analysis Batch: 165708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.06		ug/L		106	50 - 150
Arsenic	1.00	1.06		ug/L		106	50 - 150
Beryllium	0.300	0.310		ug/L		103	50 - 150
Cadmium	0.500	0.463	J	ug/L		93	50 - 150
Chromium	0.900	0.949		ug/L		105	50 - 150
Copper	1.00	1.04		ug/L		104	50 - 150
Lead	0.500	0.511		ug/L		102	50 - 150
Nickel	1.00	0.511	J	ug/L		51	50 - 150
Selenium	2.00	1.91	J	ug/L		95	50 - 150
Silver	0.500	0.524		ug/L		105	50 - 150
Thallium	0.300	0.322		ug/L		107	50 - 150
Zinc	5.00	4.79	J	ug/L		96	50 - 150

Lab Sample ID: 380-162876-A-1 MS

Matrix: Water

Analysis Batch: 165708

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
Antimony	<1.0		50.0	57.5		ug/L		115	70 - 130
Arsenic	<1.0		50.0	62.5		ug/L		123	70 - 130
Beryllium	<0.30		50.0	56.6		ug/L		113	70 - 130
Cadmium	<0.50		50.0	57.3		ug/L		115	70 - 130
Chromium	<0.90		50.0	53.0		ug/L		105	70 - 130
Copper	24		50.0	74.9		ug/L		102	70 - 130
Lead	3.9		50.0	57.6		ug/L		107	70 - 130
Nickel	<1.0		50.0	52.2		ug/L		104	70 - 130
Selenium	<2.0	F1	50.0	69.4	F1	ug/L		138	70 - 130
Silver	<0.50		50.0	51.3		ug/L		103	70 - 130
Thallium	<0.30		50.0	55.7		ug/L		111	70 - 130
Zinc	43		50.0	99.1		ug/L		113	70 - 130

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162876-A-1 MSD
Matrix: Water
Analysis Batch: 165708

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
Antimony	<1.0		50.0	56.4		ug/L		113	70 - 130	2	20
Arsenic	<1.0		50.0	59.1		ug/L		117	70 - 130	6	20
Beryllium	<0.30		50.0	54.0		ug/L		108	70 - 130	5	20
Cadmium	<0.50		50.0	55.2		ug/L		110	70 - 130	4	20
Chromium	<0.90		50.0	51.1		ug/L		101	70 - 130	4	20
Copper	24		50.0	72.7		ug/L		97	70 - 130	3	20
Lead	3.9		50.0	54.3		ug/L		101	70 - 130	6	20
Nickel	<1.0		50.0	50.0		ug/L		100	70 - 130	4	20
Selenium	<2.0	F1	50.0	65.4		ug/L		130	70 - 130	6	20
Silver	<0.50		50.0	51.5		ug/L		103	70 - 130	0	20
Thallium	<0.30		50.0	52.0		ug/L		104	70 - 130	7	20
Zinc	43		50.0	96.6		ug/L		108	70 - 130	2	20

Method: 200.8 - Mercury (ICP/MS)

Lab Sample ID: MBL 380-165709/45
Matrix: Water
Analysis Batch: 165709

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	ug/L			07/29/25 12:41	1

Lab Sample ID: LCS 380-165709/49
Matrix: Water
Analysis Batch: 165709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.00		ug/L		100	85 - 115

Lab Sample ID: LCSD 380-165709/50
Matrix: Water
Analysis Batch: 165709

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.00	1.01		ug/L		101	85 - 115	1	20

Lab Sample ID: LLCS 380-165709/48
Matrix: Water
Analysis Batch: 165709

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.206		ug/L		103	50 - 150

Lab Sample ID: 380-162876-A-1 MS
Matrix: Water
Analysis Batch: 165709

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
Mercury	<0.20		1.00	1.10		ug/L		110	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

Lab Sample ID: 380-162876-A-1 MSD
Matrix: Water
Analysis Batch: 165709

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
Mercury	<0.20		1.00	1.11		ug/L		111	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 380-165565/1
Matrix: Water
Analysis Batch: 165565

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.0		4.0	mg/L			07/28/25 11:51	1
Bicarbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			07/28/25 11:51	1
Carbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			07/28/25 11:51	1

Lab Sample ID: LCS 380-165565/4
Matrix: Water
Analysis Batch: 165565

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	95.8		mg/L		96	90 - 110

Lab Sample ID: LCSD 380-165565/19
Matrix: Water
Analysis Batch: 165565

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	100	95.5		mg/L		95	90 - 110	0	20

Lab Sample ID: LLCS 380-165565/5
Matrix: Water
Analysis Batch: 165565

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	20.0	18.5		mg/L		92	90 - 110

Lab Sample ID: MRL 380-165565/3
Matrix: Water
Analysis Batch: 165565

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	4.00	3.61	J	mg/L		90	50 - 150

Lab Sample ID: 380-162588-X-1 MS
Matrix: Water
Analysis Batch: 165565

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
Alkalinity	190		100	270		mg/L		80	80 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 380-162588-X-1 MSD

Matrix: Water

Analysis Batch: 165565

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
Alkalinity	190		100	270		mg/L		80	80 - 120	0	20

Lab Sample ID: 380-162588-X-1 DU

Matrix: Water

Analysis Batch: 165565

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	190		189		mg/L		0.7	20
Bicarbonate Alkalinity as CaCO3	190		189		mg/L		0.7	20
Carbonate Alkalinity as CaCO3	<4.0		<4.0		mg/L		NC	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 380-165568/3

Matrix: Water

Analysis Batch: 165568

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<2.0		2.0	umhos/cm			07/28/25 11:51	1

Lab Sample ID: LCS 380-165568/5

Matrix: Water

Analysis Batch: 165568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1000	1000		umhos/cm		100	90 - 110

Lab Sample ID: LCSD 380-165568/17

Matrix: Water

Analysis Batch: 165568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	1000	998		umhos/cm		100	90 - 110	1	10

Lab Sample ID: MRL 380-165568/4

Matrix: Water

Analysis Batch: 165568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	2.00	2.00		umhos/cm		100	50 - 150

Lab Sample ID: 380-162588-X-1 DU

Matrix: Water

Analysis Batch: 165568

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	1200		1170		umhos/cm		0.09	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-165438/1
Matrix: Water
Analysis Batch: 165438

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	mg/L			07/28/25 16:31	1

Lab Sample ID: HLCS 380-165438/5
Matrix: Water
Analysis Batch: 165438

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	684		mg/L		98	80 - 114

Lab Sample ID: LCS 380-165438/4
Matrix: Water
Analysis Batch: 165438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	174		mg/L		99	80 - 114

Lab Sample ID: MRL 380-165438/2
Matrix: Water
Analysis Batch: 165438

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	10.0		mg/L		100	50 - 150

Lab Sample ID: MRL 380-165438/3
Matrix: Water
Analysis Batch: 165438

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150

Lab Sample ID: 380-162815-V-1 DU
Matrix: Water
Analysis Batch: 165438

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	250		246		mg/L		2	10

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 380-165564/40
Matrix: Water
Analysis Batch: 165564

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.050		0.050	mg/L			07/28/25 15:30	1

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 380-165564/42

Matrix: Water

Analysis Batch: 165564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCSD 380-165564/43

Matrix: Water

Analysis Batch: 165564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.00	1.03		mg/L		103	90 - 110	0	10

Lab Sample ID: MRL 380-165564/41

Matrix: Water

Analysis Batch: 165564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.0500	0.0506		mg/L		101	50 - 150

Lab Sample ID: 380-162521-C-6 MS

Matrix: Water

Analysis Batch: 165564

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
Fluoride	0.61		1.00	1.64		mg/L		103	80 - 120

Lab Sample ID: 380-162521-C-6 MSD

Matrix: Water

Analysis Batch: 165564

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
Fluoride	0.61		1.00	1.65		mg/L		104	80 - 120	1	20

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 380-165569/5

Matrix: Water

Analysis Batch: 165569

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.7			SU			07/28/25 11:51	1

Lab Sample ID: LCS 380-165569/6

Matrix: Water

Analysis Batch: 165569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	6.00	6.0		SU		101	98 - 102

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QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: LCSD 380-165569/18
Matrix: Water
Analysis Batch: 165569

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	6.00	6.0		SU		101	98 - 102	0	2

Lab Sample ID: 380-162588-X-1 DU
Matrix: Water
Analysis Batch: 165569

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.0		7.9		SU		0.5	2

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 380-165675/3
Matrix: Water
Analysis Batch: 165675

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.050		0.050	mg/L			07/29/25 16:40	1

Lab Sample ID: LCS 380-165675/5
Matrix: Water
Analysis Batch: 165675

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.250	0.264		mg/L		105	90 - 110

Lab Sample ID: LCSD 380-165675/6
Matrix: Water
Analysis Batch: 165675

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.250	0.273		mg/L		109	90 - 110	4	20

Lab Sample ID: MRL 380-165675/4
Matrix: Water
Analysis Batch: 165675

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0500	0.0456	J	mg/L		91	50 - 150

Lab Sample ID: 380-162828-1 MS
Matrix: Water
Analysis Batch: 165675

Client Sample ID: Kaamilo Wells P2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.050	F1	0.250	0.143	F1	mg/L		57	80 - 120

QC Sample Results

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: 380-162828-1 MSD

Matrix: Water

Analysis Batch: 165675

Client Sample ID: Kaamilo Wells P2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.050	F1	0.250	0.153	F1	mg/L		61	80 - 120	6	20

QC Association Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

GC/MS VOA

Analysis Batch: 165610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-165610/3	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-165610/4	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 165664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	524.2	
380-162828-2	TB: Kaamilo Wells P2	Total/NA	Water	524.2	
MB 380-165664/5	Method Blank	Total/NA	Water	524.2	
LCS 380-165664/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-165664/4	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 166049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	524.2	
380-162828-2	TB: Kaamilo Wells P2	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 165376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	525.2	
MB 380-165376/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-165376/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-165376/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-162828-1 MS	Kaamilo Wells P2	Total/NA	Water	525.2	
380-162828-1 MSD	Kaamilo Wells P2	Total/NA	Water	525.2	

Analysis Batch: 165594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	525.2	165376
MB 380-165376/21-A	Method Blank	Total/NA	Water	525.2	165376
LCS 380-165376/23-A	Lab Control Sample	Total/NA	Water	525.2	165376
MRL 380-165376/22-A	Lab Control Sample	Total/NA	Water	525.2	165376
380-162828-1 MS	Kaamilo Wells P2	Total/NA	Water	525.2	165376
380-162828-1 MSD	Kaamilo Wells P2	Total/NA	Water	525.2	165376

Prep Batch: 604213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	625.1	
MB 570-604213/1-A	Method Blank	Total/NA	Water	625.1	

Analysis Batch: 608215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	625.1 SIM	604213

Analysis Batch: 610608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	625.1	604213
MB 570-604213/1-A	Method Blank	Total/NA	Water	625.1	604213

QC Association Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

GC VOA

Analysis Batch: 606111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	8015B GRO LL	
380-162828-2	TB: Kaamilo Wells P2	Total/NA	Water	8015B GRO LL	
MB 570-606111/10	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-606111/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-606111/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-606111/11	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-162172-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-162172-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 165375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	504.1	
380-162828-2	TB: Kaamilo Wells P2	Total/NA	Water	504.1	
MBL 380-165375/4-A	Method Blank	Total/NA	Water	504.1	
LCS 380-165375/29-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-165375/2-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-165375/3-A	Lab Control Sample	Total/NA	Water	504.1	
380-162664-X-1-A MS	Matrix Spike	Total/NA	Water	504.1	
380-162192-DJ-1-A DU	Duplicate	Total/NA	Water	504.1	

Analysis Batch: 165654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	504.1	165375
380-162828-2	TB: Kaamilo Wells P2	Total/NA	Water	504.1	165375
MBL 380-165375/4-A	Method Blank	Total/NA	Water	504.1	165375
LCS 380-165375/29-A	Lab Control Sample	Total/NA	Water	504.1	165375
MRL 380-165375/2-A	Lab Control Sample	Total/NA	Water	504.1	165375
MRL 380-165375/3-A	Lab Control Sample	Total/NA	Water	504.1	165375
380-162664-X-1-A MS	Matrix Spike	Total/NA	Water	504.1	165375
380-162192-DJ-1-A DU	Duplicate	Total/NA	Water	504.1	165375

Prep Batch: 165833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	505	
MB 380-165833/3-A	Method Blank	Total/NA	Water	505	
LCS 380-165833/28-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-165833/30-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-165833/31-A	Lab Control Sample	Total/NA	Water	505	
LCSD 380-165833/29-A	Lab Control Sample Dup	Total/NA	Water	505	
MRL 380-165833/1-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-165833/2-A	Lab Control Sample	Total/NA	Water	505	
380-162683-C-1-A MS	Matrix Spike	Total/NA	Water	505	
380-162683-D-1-A MS	Matrix Spike	Total/NA	Water	505	
380-162688-C-1-A MS	Matrix Spike	Total/NA	Water	505	
380-162688-D-1-A MS	Matrix Spike	Total/NA	Water	505	

Analysis Batch: 166097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	505	165833

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

GC Semi VOA (Continued)

Analysis Batch: 166097 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-165833/3-A	Method Blank	Total/NA	Water	505	165833
LCS 380-165833/28-A	Lab Control Sample	Total/NA	Water	505	165833
LCS 380-165833/30-A	Lab Control Sample	Total/NA	Water	505	165833
LCS 380-165833/31-A	Lab Control Sample	Total/NA	Water	505	165833
LCSD 380-165833/29-A	Lab Control Sample Dup	Total/NA	Water	505	165833
MRL 380-165833/1-A	Lab Control Sample	Total/NA	Water	505	165833
MRL 380-165833/2-A	Lab Control Sample	Total/NA	Water	505	165833
380-162683-C-1-A MS	Matrix Spike	Total/NA	Water	505	165833
380-162683-D-1-A MS	Matrix Spike	Total/NA	Water	505	165833
380-162688-C-1-A MS	Matrix Spike	Total/NA	Water	505	165833
380-162688-D-1-A MS	Matrix Spike	Total/NA	Water	505	165833

Prep Batch: 603290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	3510C	
MB 570-603290/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-603290/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-603290/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-603290/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-162172-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-162172-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 606862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	8015B	603290
MB 570-603290/1-A	Method Blank	Total/NA	Water	8015B	603290
LCS 570-603290/2-A	Lab Control Sample	Total/NA	Water	8015B	603290
LCSD 570-603290/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	603290
MRL 570-603290/4-A	Lab Control Sample	Total/NA	Water	8015B	603290
380-162172-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	603290
380-162172-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	603290

Analysis Batch: 608051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	8015B	
MB 570-608051/3	Method Blank	Total/NA	Water	8015B	
LCS 570-608051/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-608051/6	Lab Control Sample Dup	Total/NA	Water	8015B	
MRL 570-608051/4	Lab Control Sample	Total/NA	Water	8015B	
380-162828-1 MS	Kaamilo Wells P2	Total/NA	Water	8015B	
380-162828-1 MSD	Kaamilo Wells P2	Total/NA	Water	8015B	

HPLC/IC

Analysis Batch: 165183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	300.0	
MB 380-165183/41	Method Blank	Total/NA	Water	300.0	
LCS 380-165183/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-165183/45	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-165183/43	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

HPLC/IC (Continued)

Analysis Batch: 165183 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162687-K-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-162687-K-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 165184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	300.0	
MB 380-165184/41	Method Blank	Total/NA	Water	300.0	
LCS 380-165184/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-165184/45	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-165184/42	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-165184/43	Lab Control Sample	Total/NA	Water	300.0	
380-162687-K-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-162687-K-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 165224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-165224/5	Method Blank	Total/NA	Water	300.0	
LCS 380-165224/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-165224/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-165224/6	Lab Control Sample	Total/NA	Water	300.0	
380-162853-AF-3 MS	Matrix Spike	Total/NA	Water	300.0	
380-162853-AF-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 165225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	300.0	
MB 380-165225/5	Method Blank	Total/NA	Water	300.0	
LCS 380-165225/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-165225/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-165225/6	Lab Control Sample	Total/NA	Water	300.0	
380-162853-AF-3 MS	Matrix Spike	Total/NA	Water	300.0	
380-162853-AF-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 165458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-165458/14	Method Blank	Total/NA	Water	300.0	
LCS 380-165458/15	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-165458/16	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-165458/13	Lab Control Sample	Total/NA	Water	300.0	
380-162484-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-162484-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 166014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	300.0	
MB 380-166014/5	Method Blank	Total/NA	Water	300.0	
LCS 380-166014/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-166014/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-166014/8	Lab Control Sample	Total/NA	Water	300.0	
380-162665-EC-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-162665-EC-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Metals

Analysis Batch: 165352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	200.8	
MBL 380-165352/149	Method Blank	Total/NA	Water	200.8	
LCS 380-165352/151	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-165352/152	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-165352/150	Lab Control Sample	Total/NA	Water	200.8	
380-162828-1 MS	Kaamilo Wells P2	Total/NA	Water	200.8	
380-162828-1 MSD	Kaamilo Wells P2	Total/NA	Water	200.8	

Analysis Batch: 165421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	200.7 Rev 4.4	
MBL 380-165421/90	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 380-165421/92	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LCSD 380-165421/93	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	
LLCS 380-165421/91	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
380-162818-B-8 MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	
380-162818-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 165708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MBL 380-165708/45	Method Blank	Total/NA	Water	200.8	
LCS 380-165708/49	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-165708/50	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-165708/48	Lab Control Sample	Total/NA	Water	200.8	
380-162876-A-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-162876-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 165709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	200.8	
MBL 380-165709/45	Method Blank	Total/NA	Water	200.8	
LCS 380-165709/49	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-165709/50	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-165709/48	Lab Control Sample	Total/NA	Water	200.8	
380-162876-A-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-162876-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

General Chemistry

Analysis Batch: 165438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	SM 2540C	
MB 380-165438/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-165438/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-165438/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-165438/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-165438/3	Lab Control Sample	Total/NA	Water	SM 2540C	
380-162815-V-1 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Association Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

General Chemistry

Analysis Batch: 165564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	SM 4500 F C	
MB 380-165564/40	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 380-165564/42	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCSD 380-165564/43	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
MRL 380-165564/41	Lab Control Sample	Total/NA	Water	SM 4500 F C	
380-162521-C-6 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
380-162521-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 165565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	SM 2320B	
MB 380-165565/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 380-165565/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 380-165565/19	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 380-165565/5	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 380-165565/3	Lab Control Sample	Total/NA	Water	SM 2320B	
380-162588-X-1 MS	Matrix Spike	Total/NA	Water	SM 2320B	
380-162588-X-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2320B	
380-162588-X-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 165568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	SM 2510B	
MB 380-165568/3	Method Blank	Total/NA	Water	SM 2510B	
LCS 380-165568/5	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 380-165568/17	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
MRL 380-165568/4	Lab Control Sample	Total/NA	Water	SM 2510B	
380-162588-X-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 165569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	SM 4500 H+ B	
MB 380-165569/5	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCS 380-165569/6	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 380-165569/18	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
380-162588-X-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 165675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162828-1	Kaamilo Wells P2	Total/NA	Water	SM 4500 S2 D	
MB 380-165675/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 380-165675/5	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 380-165675/6	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
MRL 380-165675/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
380-162828-1 MS	Kaamilo Wells P2	Total/NA	Water	SM 4500 S2 D	
380-162828-1 MSD	Kaamilo Wells P2	Total/NA	Water	SM 4500 S2 D	

Lab Chronicle

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-162828-1

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	165664	Q6AD	EA POM	07/29/25 23:42
Total/NA	Analysis	524.2		1	166049	C4WQ	EA POM	07/29/25 23:42
Total/NA	Prep	525.2			165376	IQ42	EA POM	07/28/25 13:31
Total/NA	Analysis	525.2		1	165594	UPAC	EA POM	07/29/25 13:36
Total/NA	Prep	625.1			604213	LM3A	EET CAL 4	07/30/25 04:38
Total/NA	Analysis	625.1		1	610608	UX77	EET CAL 4	08/12/25 17:26
Total/NA	Prep	625.1			604213	LM3A	EET CAL 4	07/30/25 04:38
Total/NA	Analysis	625.1 SIM		1	608215	PQS1	EET CAL 4	08/07/25 12:16
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 19:01
Total/NA	Prep	504.1			165375	GVC6	EA POM	07/28/25 16:47 - 07/28/25 18:03 ¹
Total/NA	Analysis	504.1		1	165654	GVC6	EA POM	07/29/25 13:01
Total/NA	Prep	505			165833	DR5R	EA POM	07/30/25 12:39 - 07/30/25 13:20 ¹
Total/NA	Analysis	505		1	166097	DR5R	EA POM	07/30/25 19:04
Total/NA	Prep	3510C			603290	TVD6	EET CAL 4	07/28/25 09:17
Total/NA	Analysis	8015B		1	606862	NR	EET CAL 4	08/05/25 06:14
Total/NA	Analysis	8015B		1	608051	UJ3K	EET CAL 4	08/06/25 22:55
Total/NA	Analysis	300.0		1	165183	BG6L	EA POM	07/26/25 05:19
Total/NA	Analysis	300.0		1	165184	BG6L	EA POM	07/26/25 05:19
Total/NA	Analysis	300.0		5	165225	DXD4	EA POM	07/26/25 19:12
Total/NA	Analysis	300.0		2	166014	BG6L	EA POM	07/31/25 08:01
Total/NA	Analysis	200.7 Rev 4.4		1	165421	T8BB	EA POM	07/28/25 15:10
Total/NA	Analysis	200.8		1	165352	VB9B	EA POM	07/26/25 20:05
Total/NA	Analysis	200.8		1	165709	VB9B	EA POM	07/29/25 13:06
Total/NA	Analysis	SM 2320B		1	165565	PK4Q	EA POM	07/28/25 16:34
Total/NA	Analysis	SM 2510B		1	165568	PK4Q	EA POM	07/28/25 16:34
Total/NA	Analysis	SM 2540C		1	165438	UJRF	EA POM	07/28/25 16:31
Total/NA	Analysis	SM 4500 F C		1	165564	PK4Q	EA POM	07/28/25 16:00
Total/NA	Analysis	SM 4500 H+ B		1	165569	PK4Q	EA POM	07/28/25 16:34
Total/NA	Analysis	SM 4500 S2 D		1	165675	ZJ2C	EA POM	07/29/25 16:40

Client Sample ID: TB: Kaamilo Wells P2

Lab Sample ID: 380-162828-2

Date Collected: 07/24/25 10:18

Matrix: Water

Date Received: 07/25/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	165664	Q6AD	EA POM	07/30/25 00:05
Total/NA	Analysis	524.2		1	166049	C4WQ	EA POM	07/30/25 00:05
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/03/25 00:24
Total/NA	Prep	504.1			165375	GVC6	EA POM	07/28/25 16:47 - 07/28/25 18:03 ¹
Total/NA	Analysis	504.1		1	165654	GVC6	EA POM	07/29/25 13:23

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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

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Accreditation/Certification Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

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
505	505	Water	Polychlorinated biphenyls, Total
524.2		Water	1,3-Dichloropropene, Total
524.2		Water	2-Butanone (MEK)
524.2		Water	Acetone
524.2		Water	Bromodichloromethane
524.2		Water	Bromoethane
524.2		Water	Bromoform
524.2		Water	Chlorodibromomethane
524.2		Water	Chloroform (Trichloromethane)
524.2		Water	m,p Xylenes
524.2		Water	o-Xylene
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

Accreditation/Certification Summary

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

Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 S2 D		Water	Sulfide

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
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: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Method	Method Description	Protocol	Laboratory
524.2	Total Trihalomethanes	EPA-DW	EA POM
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA POM
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
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW2	EA POM
505	Organochlorine Pesticides/PCBs (GC)	EPA	EA POM
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Mercury (ICP/MS)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2320B	Alkalinity	SM	EA POM
SM 2510B	Conductivity, Specific Conductance	SM	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
SM 4500 F C	Fluoride	SM	EA POM
SM 4500 H+ B	pH	SM	EA POM
SM 4500 S2 D	Sulfide, Total	SM	EA POM
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
504.1	Microextraction	EPA-DW	EA POM
505	Extraction, Organohalide Pesticides	EPA	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4
None	Autocomplete Prep - Metals - No Digestion required	None	EA POM

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
EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
EPA-DW2 = "Methods For The Determination of Organic Compounds in Drinking Water - Supplement III ", EPA/600/R-95-131, August 1995
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
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

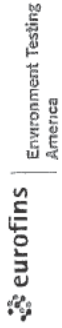
Job ID: 380-162828-1
SDG: Quarterly: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-162828-1	Kaamilo Wells P2	Water	07/24/25 10:18	07/25/25 09:30	Hawaii
380-162828-2	TB: Kaamilo Wells P2	Water	07/24/25 10:18	07/25/25 09:30	Hawaii

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Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia CA 91016
Phone (626) 386-1100

Chain of Custody Record

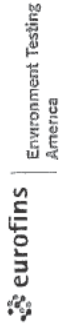


Client Information Client Contact: Kirk Iwamoto Company: City & County of Honolulu		Lab PM: Arada Rachelle E-Mail: Rachelle.Arada@et.eurofins.com		Carrier Tracking No(s): State of Origin: Page: Page 1 of 2 Job #:	
Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State, Zip: HI 96843 Phone: 808-748-5040 (tel) Email: Iwamoto@hbws.org Project Name: RED-HILL Site: 380-162828 COC		Due Date Requested: TAT Requested (days): Compliance Project: ☐ No PO #: C20525101 exp 05312023 WO #: Project #: 38001111 SSOW#: QR Code: 		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
Sample Identification Sample Date: 24-Jul-2025 Sample Time: 1018 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, BT=Tissue, AA=Air): Water		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 604 1 PREC, 605 LL PREC 2208, 25108, SM4500, H+ 200.7, 200.8 2540C, Calcd - Total dissolved Solids (TDS) SM4500, S2, D, Sulfide, Total 525.2 PREC, 524.2 SIM, PREC 300 OF, 280 B, 300 OF, 280 PREC, 300 OF, 48H PREC, 4500 F, C 245 1 Local Method 8015B, GRO, LL, (MOD) GRO 8015B, DRO, LL, CS - HNL Ranges C10-C24/C24-C36/C8-C18 8015B DAL - Ethanol Total Number of containers: 625.1, 625.1, SIM		Special Instructions/Note: 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: Empty Kit Relinquished by: _____ Date: _____ Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify): Relinquished by: _____ Date: _____ Relinquished by: _____ Date: _____ Custody Seals Intact: _____ Custody Seal No: _____ Delta Yes Delta No	

Ver-01/16/2019

Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia CA 91016
Phone (626) 386-1100

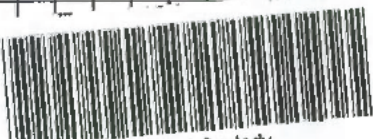
Chain of Custody Record



Client Information Client Contact: Kirk Iwamoto Company: City & County of Honolulu		Lab PM: Arada Rachelle E-Mail: Rachelle.Arada@et.eurofins.com		Carrier Tracking No(s): State of Origin: Page: Page 1 of 2 Job #:	
Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State, Zip: HI 96843 Phone: 808-748-5040 (tel) Email: Iwamoto@hbws.org Project Name: RED-HILL Site: 380-162828 COC		Due Date Requested: TAT Requested (days): Compliance Project: ☐ No PO #: C20525101 exp 05312023 WO #: Project #: 38001111 SSOW#: QR Code: 		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
Sample Identification Sample Date: 24-Jul-2025 Sample Time: 1018 G Sample Type (C=Comp, G=grab): Matrix (W=water, S=solid, O=soil, BT=tissue, AA=air): Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 604 1_PREC, 605 1_LL_PREC 2220B, 2510B, SM4500, H+ 200.7, 200.8 2540C_Calc'd - Total dissolved Solids (TDS) SM4500_S2_D Sulfide, Total 525.2_PREC, 524.2_SIM_PREC 300.0F_28D_B, 300.0F_28D_PREC, 300.0F_48H_PREC, 4500_F_C 245 1 Local Method 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18 8015B_DAL - Ethanol Total Number of containers: 625.1, 625.1, SIM		Sample Date: 24-Jul-2025 Sample Time: 1018 Sample Type (C=Comp, G=grab): Matrix (W=water, S=solid, O=soil, BT=tissue, AA=air): Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 604 1_PREC, 605 1_LL_PREC 2220B, 2510B, SM4500, H+ 200.7, 200.8 2540C_Calc'd - Total dissolved Solids (TDS) SM4500_S2_D Sulfide, Total 525.2_PREC, 524.2_SIM_PREC 300.0F_28D_B, 300.0F_28D_PREC, 300.0F_48H_PREC, 4500_F_C 245 1 Local Method 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18 8015B_DAL - Ethanol Total Number of containers: 625.1, 625.1, SIM		Special Instructions/Note Special Instructions/Note	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify)		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	
Empty Kit Relinquished by		Date:		Time:	
Relinquished by		Date/Time:		Company	
Relinquished by		Date/Time:		Company	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Special Instructions/QC Requirements	

Ver-01/16/2019



Client Information (Sub Contract Lab)			Sampler:	N/A	Lab PM:	Lopez, Maria	Carrier Tracking No(s):	COC No:
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 #: 380-162828-1
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A Project Name: RED-HILL Site: Honolulu BWS Sites			Due Date Requested: 8/7/2025 TAT Requested (days): N/A PO #: N/A WO #: N/A Project #: 38001111 SSOW#: N/A		Analysis Requested			Preservation Codes:
					Field Filtered Sample (Yes or No) Perform MSMSD (Yes or No)			Total Number of Containers
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overtail, BT=Tissue, ANAL)	801SB_DAI Ethanol 801SB_DRG_LL_CSIS19C_LLLNL Ranges: C10-C24/CZ4-C36/CB-C18 801SB_GRO_LLJ503QC(WOD) GRO 825_1_SIN635_Prep(WOD) Extended List 825_1/825_Prep(WOD) Tentatively Identified Compounds (Hold)	Other: N/A
					Preservation Code:		X X	Special Instructions/Note:
Kaamilo Wells P2 (380-162828-1)	7/24/25	10:18 Hawaiian	G	Water		X X X X X		MRLs are needed., MRLs are needed. Confirm any hits > RL.
TB: Kaamilo Wells P2 (380-162828-2)	7/24/25	10:18 Hawaiian	G	Water		X		MRLs are needed.
 380-162828 Chain of Custody								
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.								
Possible Hazard Identification Unconfirmed					Sample Disposal! (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2 Special Instructions/QC Requirements:			
Empty Kit Relinquished by:			Date:	Time:			Method of Shipment:	
Relinquished by: [Signature]			Date/Time: 7/26/25 1000	Company: EEA	Received by: [Signature]			Date/Time: 7/26/25 1000 Company: WP
Relinquished by: [Signature]			Date/Time: 7/26/25 1100	Company: WP	Received by: [Signature]			Date/Time: 7/26/25 1103 Company: WP
Relinquished by: [Signature]			Date/Time: 7/26/25 1100	Company: WP	Received by: [Signature]			Date/Time: 7/26/25 1103 Company: WP
Custody Seals Intact: Δ Yes Δ No			Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.2/4.2 IMPR m			

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-162828-1

SDG Number: Quarterly: Ka'amilo Wells P2

Login Number: 162828

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Hernandez, Orlando

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).	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: 380-162828-1
SDG Number: Quarterly: Ka'amilo Wells P2

Login Number: 162828

List Number: 2

Creator: Ablian, Samantha

List Source: Eurofins Calscience

List Creation: 07/26/25 01:55 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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2/4.2 IR92
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	