

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

JOB NUMBER

380-160197-1

Eurofins Eaton Analytical Pomona

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.

Metals

Qualifier	Qualifier Description
B	Analyte was found in the associated method blank.
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: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells
P1,

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: 380-160197-1

Job ID: 380-160197-1

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Job Narrative 380-160197-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/11/2025 9:34 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 2.4°C.

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: AIEA WELLS P2 (260) (331-004-WL103) (380-160197-1), MOANALUA WELLS (331-223-TP202) (380-160197-2) and HALAWA WELLS P1 (331-023-WL065) (380-160197-3) for EPA method 300 for Nitrate and Nitrite. The client was contacted on 07/14/25, the lab was advised that a resampling will take place for the affected sites (XWB4)

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 570-597175. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-597175. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_SIM: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 570-597175 and analytical batch 570-600411 recovered outside control limits for the following analyte(s): Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

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

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.

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Case Narrative

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

Job ID: 380-160197-1

Job ID: 380-160197-1 (Continued)

Eurofins Eaton Analytical Pomona

HPLC/IC

Method 300_OF_28D_PREC: The continuing calibration blank (CCB) for analytical batch 380-162429 contained Chloride above the method detection limit (MDL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

Metals

Method 200.8: The method blank contained Chromium 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

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: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Bromide	370		5.0	ug/L	1		300.0	Total/NA
Chloride	110	^2	2.5	mg/L	5		300.0	Total/NA
Sulfate	18		0.50	mg/L	2		300.0	Total/NA
Calcium	21		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	19		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.6		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	42		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	2.8	B	0.90	ug/L	1		200.8	Total/NA
Copper	13		1.0	ug/L	1		200.8	Total/NA
Zinc	13		5.0	ug/L	1		200.8	Total/NA
Alkalinity	57		4.0	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	57		4.0	mg/L	1		SM 2320B	Total/NA
Specific Conductance	500		2.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	340		20	mg/L	1		SM 2540C	Total/NA
Fluoride	0.051		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: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-160197-2

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Bromide	380		5.0	ug/L	1		300.0	Total/NA
Chloride	120	^2	2.5	mg/L	5		300.0	Total/NA
Sulfate	17		1.3	mg/L	5		300.0	Total/NA

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-160197-3

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Bromide	680		25	ug/L	5		300.0	Total/NA
Chloride	190	^2	2.5	mg/L	5		300.0	Total/NA
Sulfate	43		1.3	mg/L	5		300.0	Total/NA
Fluoride	0.054		0.050	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: TB: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-4

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: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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			07/21/25 19:00	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			07/21/25 19:00	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/21/25 19:00	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/21/25 19:00	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/21/25 19:00	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/21/25 19:00	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			07/21/25 19:00	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/21/25 19:00	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/21/25 19:00	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/21/25 19:00	1
Acetone	<500		500	ug/L			07/21/25 19:00	1
Benzene	<0.50		0.50	ug/L			07/21/25 19:00	1
Bromobenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
Bromochloromethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Bromodichloromethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Bromoethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Bromoform	<0.50		0.50	ug/L			07/21/25 19:00	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/21/25 19:00	1
Carbon disulfide	<0.50		0.50	ug/L			07/21/25 19:00	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/21/25 19:00	1
Chlorobenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Chloroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/21/25 19:00	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/21/25 19:00	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/21/25 19:00	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/21/25 19:00	1
Dibromomethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Dichloromethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Diisopropyl ether	<3.0		3.0	ug/L			07/21/25 19:00	1
Ethylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
Hexachlorobutadiene	<0.50		0.50	ug/L			07/21/25 19:00	1
Isopropylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
m,p-Xylenes	<0.50		0.50	ug/L			07/21/25 19:00	1

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Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/21/25 19:00	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/21/25 19:00	1
Naphthalene	<0.50		0.50	ug/L			07/21/25 19:00	1
n-Butylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
N-Propylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
o-Chlorotoluene	<0.50		0.50	ug/L			07/21/25 19:00	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/21/25 19:00	1
o-Xylene	<0.50		0.50	ug/L			07/21/25 19:00	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/21/25 19:00	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/21/25 19:00	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/21/25 19:00	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
Styrene	<0.50		0.50	ug/L			07/21/25 19:00	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/21/25 19:00	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/21/25 19:00	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/21/25 19:00	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/21/25 19:00	1
Toluene	<0.50		0.50	ug/L			07/21/25 19:00	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/21/25 19:00	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/21/25 19:00	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/21/25 19:00	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/21/25 19:00	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/21/25 19:00	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/21/25 19:00	1
Xylenes, Total	<0.50		0.50	ug/L			07/21/25 19:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		07/21/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		07/21/25 19:00	1
4-Bromofluorobenzene (Surr)	101		70 - 130		07/21/25 19:00	1
Toluene-d8 (Surr)	98		70 - 130		07/21/25 19:00	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		07/21/25 19:00	1
4-Bromofluorobenzene (Surr)	101		70 - 130		07/21/25 19:00	1
Toluene-d8 (Surr)	98		70 - 130		07/21/25 19:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
2,4'-DDE	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
2,4'-DDT	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
4,4'-DDD	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
4,4'-DDE	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
4,4'-DDT	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Acenaphthene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Acenaphthylene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetochlor	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Alachlor	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
alpha-BHC	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
alpha-Chlordane	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Anthracene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 16:09	1
Atrazine	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 16:09	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 16:09	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 16:09	1
beta-BHC	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/15/25 06:23	07/16/25 16:09	1
Aldrin	<0.0098		0.0098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Bromacil	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Butachlor	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/15/25 06:23	07/16/25 16:09	1
Chlorobenzilate	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Chloroneb	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Chlorpyrifos	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Chrysene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 16:09	1
delta-BHC	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/15/25 06:23	07/16/25 16:09	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Dieldrin	<0.0098		0.0098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Diethylphthalate	<0.49		0.49	ug/L		07/15/25 06:23	07/16/25 16:09	1
Dimethylphthalate	<0.49		0.49	ug/L		07/15/25 06:23	07/16/25 16:09	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		07/15/25 06:23	07/16/25 16:09	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Endosulfan sulfate	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Endrin	<0.0098		0.0098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Endrin aldehyde	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
EPTC	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Fluoranthene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Fluorene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
gamma-BHC (Lindane)	<0.0098		0.0098	ug/L		07/15/25 06:23	07/16/25 16:09	1
gamma-Chlordane	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Heptachlor	<0.0098		0.0098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Isophorone	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Malathion	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Metolachlor	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Molinate	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Naphthalene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Parathion	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Phenanthrene	<0.039		0.039	ug/L		07/15/25 06:23	07/16/25 16:09	1
Propachlor	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Pyrene	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Simazine	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Terbacil	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Terbutylazine	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Thiobencarb	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/15/25 06:23	07/16/25 16:09	1
trans-Nonachlor	<0.049		0.049	ug/L		07/15/25 06:23	07/16/25 16:09	1
Trifluralin	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
1-Methylnaphthalene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1
2-Methylnaphthalene	<0.098		0.098	ug/L		07/15/25 06:23	07/16/25 16:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/15/25 06:23	07/16/25 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	07/15/25 06:23	07/16/25 16:09	1
Perylene-d12	84		70 - 130	07/15/25 06:23	07/16/25 16:09	1
Triphenylphosphate	106		70 - 130	07/15/25 06:23	07/16/25 16:09	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		07/15/25 05:23	07/23/25 15:17	1
2,4,5-Trichlorophenol	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
2,4,6-Trichlorophenol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
2,4-Dichlorophenol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
2,4-Dinitrophenol	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
2,6-Dichlorophenol	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
2-Chloronaphthalene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
2-Chlorophenol	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
2-Methylnaphthalene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
2-Methylphenol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
2-Nitroaniline	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
2-Nitrophenol	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
3/4-Methylphenol	<1.9		1.9	ug/L		07/15/25 05:23	07/23/25 15:17	1
3-Nitroaniline	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
4,6-Dinitro-2-methylphenol	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
4-Chloro-3-methylphenol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
4-Chloroaniline	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
4-Nitroaniline	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<4.8		4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
Acenaphthene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Acenaphthylene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Aniline	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Anthracene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzidine	<4.8	*	4.8	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzo[a]anthracene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzo[a]pyrene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzoic acid	<9.7		9.7	ug/L		07/15/25 05:23	07/23/25 15:17	1
Benzyl alcohol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
bis (2-Chloroisopropyl) ether	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Chrysene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Dibenzofuran	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Fluoranthene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Fluorene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Hexachloroethane	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Naphthalene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Nitrobenzene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
N-Nitrosodiphenylamine	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Pentachlorophenol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
Phenanthrene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1
Phenol	<0.97		0.97	ug/L		07/15/25 05:23	07/23/25 15:17	1
Pyrene	<0.19		0.19	ug/L		07/15/25 05:23	07/23/25 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		28 - 127	07/15/25 05:23	07/23/25 15:17	1
2-Fluorobiphenyl (Surr)	93		31 - 120	07/15/25 05:23	07/23/25 15:17	1
2-Fluorophenol (Surr)	54		17 - 120	07/15/25 05:23	07/23/25 15:17	1
Nitrobenzene-d5 (Surr)	91		27 - 120	07/15/25 05:23	07/23/25 15:17	1
Phenol-d6 (Surr)	31		10 - 120	07/15/25 05:23	07/23/25 15:17	1
p-Terphenyl-d14 (Surr)	95		45 - 120	07/15/25 05:23	07/23/25 15:17	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
Cyclic octaatomic sulfur	28	T J N	ug/L		9.82	10544-50-0	07/15/25 05:23	07/24/25 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		33 - 139	07/15/25 05:23	07/24/25 15:51	1
2-Fluorobiphenyl (Surr)	91		33 - 126	07/15/25 05:23	07/24/25 15:51	1
2-Fluorophenol (Surr)	51		12 - 120	07/15/25 05:23	07/24/25 15:51	1
Nitrobenzene-d5 (Surr)	100		36 - 120	07/15/25 05:23	07/24/25 15:51	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d6 (Surr)	29		10 - 120	07/15/25 05:23	07/24/25 15:51	1
p-Terphenyl-d14 (Surr)	91		47 - 131	07/15/25 05:23	07/24/25 15:51	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			07/20/25 19:31	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	84		38 - 134				07/20/25 19:31	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		07/15/25 16:49	07/16/25 05:15	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		07/15/25 16:49	07/16/25 05:15	1
1,2-Dibromoethane	<0.010		0.010	ug/L		07/15/25 16:49	07/16/25 05:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	98		60 - 140			07/15/25 16:49	07/16/25 05:15	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		07/16/25 10:30	07/16/25 21:44	1
Chlordane (n.o.s.)	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1016	<0.070		0.070	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1221	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1232	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1242	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1248	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1254	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
PCB-1260	<0.070		0.070	ug/L		07/16/25 10:30	07/16/25 21:44	1
Polychlorinated biphenyls, Total	<0.099		0.099	ug/L		07/16/25 10:30	07/16/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		70 - 130			07/16/25 10:30	07/16/25 21:44	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		07/14/25 10:41	07/19/25 06:04	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		07/14/25 10:41	07/19/25 06:04	1
C8-C18	<26		26	ug/L		07/14/25 10:41	07/19/25 06:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	102		60 - 130			07/14/25 10:41	07/19/25 06:04	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			07/15/25 14:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	97		54 - 120				07/15/25 14:22	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	370		5.0	ug/L			07/15/25 03:12	1
Chloride	110	^2	2.5	mg/L			07/12/25 14:38	5
Sulfate	18		0.50	mg/L			07/12/25 02:20	2

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21		0.10	mg/L			07/14/25 14:15	1
Magnesium	19		0.10	mg/L			07/14/25 14:15	1
Potassium	2.6		0.10	mg/L			07/14/25 14:15	1
Sodium	42		0.10	mg/L			07/14/25 14:15	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			07/14/25 13:49	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			07/14/25 13:42	1
Arsenic	<1.0		1.0	ug/L			07/14/25 13:42	1
Beryllium	<0.30		0.30	ug/L			07/14/25 13:42	1
Cadmium	<0.50		0.50	ug/L			07/14/25 13:42	1
Chromium	2.8	B	0.90	ug/L			07/14/25 13:42	1
Copper	13		1.0	ug/L			07/14/25 13:42	1
Lead	<0.50		0.50	ug/L			07/14/25 13:42	1
Nickel	<1.0		1.0	ug/L			07/14/25 13:42	1
Selenium	<2.0		2.0	ug/L			07/14/25 13:42	1
Silver	<0.50		0.50	ug/L			07/14/25 13:42	1
Thallium	<0.30		0.30	ug/L			07/14/25 13:42	1
Zinc	13		5.0	ug/L			07/14/25 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	57		4.0	mg/L			07/14/25 21:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	57		4.0	mg/L			07/14/25 21:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.0		4.0	mg/L			07/14/25 21:21	1
Specific Conductance (SM 2510B)	500		2.0	umhos/cm			07/14/25 21:21	1
Total Dissolved Solids (SM 2540C)	340		20	mg/L			07/14/25 12:53	1
Fluoride (SM 4500 F C)	0.051		0.050	mg/L			07/14/25 23:52	1
pH (SM 4500 H+ B)	7.8	HF		SU			07/14/25 21:21	1
Sulfide (SM 4500 S2 D)	<0.050		0.050	mg/L			07/15/25 17:13	1

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-160197-2

Date Collected: 07/09/25 09:52

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	380		5.0	ug/L			07/15/25 03:39	1

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Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-160197-2

Date Collected: 07/09/25 09:52

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120	^2	2.5	mg/L			07/12/25 02:33	5
Sulfate	17		1.3	mg/L			07/12/25 02:33	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SM 4500 F C)	<0.050		0.050	mg/L			07/18/25 18:42	1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-160197-3

Date Collected: 07/09/25 10:10

Matrix: Water

Date Received: 07/11/25 09:34

PWSID Number: HI0000331

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	680		25	ug/L			07/16/25 00:10	5
Chloride	190	^2	2.5	mg/L			07/12/25 02:46	5
Sulfate	43		1.3	mg/L			07/12/25 02:46	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SM 4500 F C)	0.054		0.050	mg/L			07/18/25 18:38	1

Client Sample ID: TB: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-4

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

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			07/22/25 06:44	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			07/22/25 06:44	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/22/25 06:44	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/22/25 06:44	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/22/25 06:44	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/22/25 06:44	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/22/25 06:44	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/22/25 06:44	1

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Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: TB: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-4

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<500		500	ug/L			07/22/25 06:44	1
Benzene	<0.50		0.50	ug/L			07/22/25 06:44	1
Bromobenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
Bromochloromethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Bromodichloromethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Bromoform	<0.50		0.50	ug/L			07/22/25 06:44	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/22/25 06:44	1
Carbon disulfide	<0.50		0.50	ug/L			07/22/25 06:44	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/22/25 06:44	1
Chlorobenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Chloroethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/22/25 06:44	1
Dichloromethane	<0.50		0.50	ug/L			07/22/25 06:44	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/22/25 06:44	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/22/25 06:44	1
Dibromomethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Ethylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
Hexachlorobutadiene	<0.50	^3+	0.50	ug/L			07/22/25 06:44	1
Isopropylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
m,p-Xylenes	<0.50		0.50	ug/L			07/22/25 06:44	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/22/25 06:44	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/22/25 06:44	1
Naphthalene	<0.50		0.50	ug/L			07/22/25 06:44	1
n-Butylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
N-Propylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/22/25 06:44	1
o-Chlorotoluene	<0.50		0.50	ug/L			07/22/25 06:44	1
o-Xylene	<0.50		0.50	ug/L			07/22/25 06:44	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/22/25 06:44	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/22/25 06:44	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/22/25 06:44	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
Styrene	<0.50		0.50	ug/L			07/22/25 06:44	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/22/25 06:44	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/22/25 06:44	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/22/25 06:44	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/22/25 06:44	1
Toluene	<0.50		0.50	ug/L			07/22/25 06:44	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			07/22/25 06:44	1
Xylenes, Total	<0.50		0.50	ug/L			07/22/25 06:44	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/22/25 06:44	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/22/25 06:44	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/22/25 06:44	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/22/25 06:44	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/22/25 06:44	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/22/25 06:44	1

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Client Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: TB: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-4

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethane	<0.50		0.50	ug/L			07/22/25 06:44	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/22/25 06:44	1
Diisopropyl ether	<3.0		3.0	ug/L			07/22/25 06:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Acetaldehyde	9.0	T J N	ug/L		1.64	75-07-0		07/22/25 06:44	1
Cyclopentane	0.87	T J N	ug/L		3.50	287-92-3		07/22/25 06:44	1
Furfural	14	T J N	ug/L		10.10	98-01-1		07/22/25 06:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		07/22/25 06:44	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		07/22/25 06:44	1
4-Bromofluorobenzene (Surr)	104		70 - 130		07/22/25 06:44	1
4-Bromofluorobenzene (Surr)	104		70 - 130		07/22/25 06:44	1
Toluene-d8 (Surr)	96		70 - 130		07/22/25 06:44	1
Toluene-d8 (Surr)	96		70 - 130		07/22/25 06:44	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			07/20/25 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		07/20/25 21:42	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		07/15/25 16:49	07/16/25 05:37	1
1,2-Dibromo-3-Chloropropane	<0.0099		0.0099	ug/L		07/15/25 16:49	07/16/25 05:37	1
1,2-Dibromoethane	<0.0099		0.0099	ug/L		07/15/25 16:49	07/16/25 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	103		60 - 140	07/15/25 16:49	07/16/25 05:37	1

Action Limit Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

PWSID Number: HI0000331

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	<0.020		ug/L		0.2		525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L		6		525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L		400		525.2	Total/NA
Endrin	<0.0098		ug/L		2		525.2	Total/NA
gamma-BHC (Lindane)	<0.0098		ug/L		0.2		525.2	Total/NA
Heptachlor	<0.0098		ug/L		0.4		525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

(Continued)

PWSID Number: HI0000331

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
Chlordane (n.o.s.)	<0.099		ug/L		2		505	Total/NA
Polychlorinated biphenyls, Total	<0.099		ug/L		0.5		505	Total/NA
Chloride	110	^2	mg/L			250	300.0	Total/NA
Sulfate	18		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	2.8	B	ug/L		100		200.8	Total/NA
Copper	13		ug/L		1300	1000	200.8	Total/NA
Lead	<0.50		ug/L		10.00		200.8	Total/NA
Selenium	<2.0		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	13		ug/L			5000	200.8	Total/NA
Total Dissolved Solids	340		mg/L			500	SM 2540C	Total/NA
Fluoride	0.051		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: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-160197-2

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	EPAMCLS Limit	RL	Method	Prep Type
Chloride	120	^2	mg/L		250	2.5	300.0	Total/NA
Sulfate	17		mg/L		250	1.3	300.0	Total/NA
Fluoride	<0.050		mg/L	4	2	0.050	SM 4500 F C	Total/NA

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-160197-3

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	EPAMCLS Limit	RL	Method	Prep Type
Chloride	190	^2	mg/L		250	2.5	300.0	Total/NA
Sulfate	43		mg/L		250	1.3	300.0	Total/NA
Fluoride	0.054		mg/L	4	2	0.050	SM 4500 F C	Total/NA

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Action Limit Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: TB: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-4

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
Dichloromethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70	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
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
Xylenes, Total	<0.50		ug/L	10000	10000	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
1,2,3-Trichloropropane	<0.020		ug/L	0.6000		0.020	504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.0099		ug/L		0.2	0.0099	504.1	Total/NA
1,2-Dibromoethane	<0.0099		ug/L		0.05	0.0099	504.1	Total/NA

Surrogate Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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)
380-160197-1	AIEA WELLS P2 (260) (331-004	95	95	101	101	98	98
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	104	104	104	104	96	96
LCS 380-164064/11	Lab Control Sample	102	102	100	100	100	100
LCS 380-164128/3	Lab Control Sample	100	100	102	102	102	102
LCSD 380-164064/12	Lab Control Sample Dup	95	95	102	102	99	99
LCSD 380-164128/4	Lab Control Sample Dup	99	99	100	100	101	101
MB 380-164064/15	Method Blank	102	102	99	99	101	101
MB 380-164128/5	Method Blank	104	104	106	106	96	96
MRL 380-164064/13	Lab Control Sample	95	95	101	101	99	99
MRL 380-164064/14	Lab Control Sample	97	97	96	96	100	100
MRL 380-164070/13	Lab Control Sample	102	102	100	100	98	98
MRL 380-164070/14	Lab Control Sample	100	100	100	100	98	98

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)
380-160162-B-1-A MS	Matrix Spike	96	92	100
380-160191-Q-1-A DU	Duplicate	93	79	105
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	95	84	106
LCS 380-162833/23-A	Lab Control Sample	95	94	107
MB 380-162833/21-A	Method Blank	95	81	104
MRL 380-162833/22-A	Lab Control Sample	94	89	102

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)
380-160197-1	AIEA WELLS P2 (260) (331-004	91	91	51	100	29	91
MB 570-597175/1-A	Method Blank	68	73	42	80	23	69

Surrogate Legend
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

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Surrogate Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-160197-1	AIEA WELLS P2 (260) (331-004	102	93	54	91	31	95
LCS 570-597175/2-A	Lab Control Sample	88	84	58	72	36	87
LCSD 570-597175/3-A	Lab Control Sample Dup	86	86	58	72	37	87
MB 570-597175/1-A	Method Blank	83	76	45	76	27	81

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)					
380-159486-C-1 MS	Matrix Spike	98					
380-159486-C-1 MSD	Matrix Spike Duplicate	100					
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	84					
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	82					
LCS 570-599688/1008	Lab Control Sample	99					
LCSD 570-599688/9	Lab Control Sample Dup	89					
MB 570-599688/10	Method Blank	79					
MRL 570-599688/11	Lab Control Sample	82					

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)					
380-160197-1	AIEA WELLS P2 (260) (331-004	98					
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	103					
380-160405-DF-1-A MS	Matrix Spike	92					
380-160406-DE-1-A DU	Duplicate	93					
LCS 380-162921/29-A	Lab Control Sample	91					
MBL 380-162921/4-A	Method Blank	97					
MRL 380-162921/2-A	Lab Control Sample	103					
MRL 380-162921/3-A	Lab Control Sample	96					

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Surrogate Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Surrogate Legend

DBPP = 1,2-Dibromopropane (Surr)

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (70-130)
380-160125-E-1-A MS	Matrix Spike	96
380-160125-F-1-A MS	Matrix Spike	97
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	91
380-160465-F-1-A MS	Matrix Spike	93
380-160465-G-1-A MS	Matrix Spike	97
LCS 380-163108/37-A	Lab Control Sample	99
LCS 380-163108/38-A	Lab Control Sample	94
LCS 380-163108/40-A	Lab Control Sample	91
LCS 380-163108/8-A	Lab Control Sample	101
LCSD 380-163108/39-A	Lab Control Sample Dup	93
MB 380-163108/12-A	Method Blank	94
MRL 380-163108/10-A	Lab Control Sample	98
MRL 380-163108/11-A	Lab Control Sample	97
MRL 380-163108/9-A	Lab Control Sample	97

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)
380-159486-B-1-B MS	Matrix Spike	111
380-159486-B-1-C MSD	Matrix Spike Duplicate	109
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	102
LCS 570-596824/2-A	Lab Control Sample	105
LCSD 570-596824/3-A	Lab Control Sample Dup	101
MB 570-596824/1-A	Method Blank	92
MRL 570-596824/4-A	Lab Control Sample	94

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)
380-158427-AB-1 MS	Matrix Spike	87
380-158427-AB-1 MSD	Matrix Spike Duplicate	80
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	97
LCS 570-596929/24	Lab Control Sample	80
LCSD 570-596929/22	Lab Control Sample Dup	89

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Surrogate Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)
Matrix: Water
Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	HF2PP1 (54-120)
MB 570-596929/23	Method Blank	86
MRL 570-596929/26	Lab Control Sample	118
Surrogate Legend		
HF2PP = Hexafluoro-2-propanol (Surr)		

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 380-164064/15

Matrix: Water

Analysis Batch: 164064

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			07/21/25 18:14	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/21/25 18:14	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/21/25 18:14	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/21/25 18:14	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/21/25 18:14	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/21/25 18:14	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/21/25 18:14	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/21/25 18:14	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/21/25 18:14	1
Acetone	<500		500	ug/L			07/21/25 18:14	1
Benzene	<0.50		0.50	ug/L			07/21/25 18:14	1
Bromobenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
Bromochloromethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Bromodichloromethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Bromoform	<0.50		0.50	ug/L			07/21/25 18:14	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/21/25 18:14	1
Carbon disulfide	<0.50		0.50	ug/L			07/21/25 18:14	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/21/25 18:14	1
Chlorobenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Chloroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/21/25 18:14	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/21/25 18:14	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/21/25 18:14	1
Dibromomethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Dichloromethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Ethylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
Hexachlorobutadiene	<0.50		0.50	ug/L			07/21/25 18:14	1
Isopropylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
m,p-Xylenes	<0.50		0.50	ug/L			07/21/25 18:14	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/21/25 18:14	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/21/25 18:14	1
Naphthalene	<0.50		0.50	ug/L			07/21/25 18:14	1
n-Butylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
N-Propylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
o-Chlorotoluene	<0.50		0.50	ug/L			07/21/25 18:14	1

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 380-164064/15

Matrix: Water

Analysis Batch: 164064

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/21/25 18:14	1
o-Xylene	<0.50		0.50	ug/L			07/21/25 18:14	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/21/25 18:14	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/21/25 18:14	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/21/25 18:14	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
Styrene	<0.50		0.50	ug/L			07/21/25 18:14	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/21/25 18:14	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			07/21/25 18:14	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/21/25 18:14	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/21/25 18:14	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/21/25 18:14	1
Toluene	<0.50		0.50	ug/L			07/21/25 18:14	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/21/25 18:14	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/21/25 18:14	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/21/25 18:14	1
Bromoethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/21/25 18:14	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/21/25 18:14	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/21/25 18:14	1
Diisopropyl ether	<3.0		3.0	ug/L			07/21/25 18:14	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/21/25 18:14	1
Xylenes, Total	<0.50		0.50	ug/L			07/21/25 18:14	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		07/21/25 18:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		07/21/25 18:14	1
4-Bromofluorobenzene (Surr)	99		70 - 130		07/21/25 18:14	1
Toluene-d8 (Surr)	101		70 - 130		07/21/25 18:14	1

Lab Sample ID: LCS 380-164064/11

Matrix: Water

Analysis Batch: 164064

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	4.80		ug/L		96	70 - 130
1,1,1-Trichloroethane	5.00	4.68		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.05		ug/L		101	70 - 130
1,1,2-Trichloroethane	5.00	4.66		ug/L		93	70 - 130
1,1-Dichloroethane	5.00	4.72		ug/L		94	70 - 130
1,1-Dichloroethylene	5.00	4.72		ug/L		94	70 - 130
1,1-Dichloropropene	5.00	4.79		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	5.00	5.18		ug/L		104	70 - 130
1,2,3-Trichloropropane	5.00	4.91		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	5.00	5.59		ug/L		112	70 - 130

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-164064/11

Matrix: Water

Analysis Batch: 164064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	5.00	5.07		ug/L		101	70 - 130
1,2-Dichloroethane	5.00	4.82		ug/L		96	70 - 130
1,2-Dichloropropane	5.00	4.78		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	5.00	5.08		ug/L		102	70 - 130
1,3-Dichloropropane	5.00	4.73		ug/L		95	70 - 130
2,2-Dichloropropane	5.00	4.66		ug/L		93	70 - 130
2-Butanone (MEK)	50.0	39.9		ug/L		80	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	50.7		ug/L		101	70 - 130
Acetone	50.0	44.9	J	ug/L		90	70 - 130
Benzene	5.00	4.94		ug/L		99	70 - 130
Bromobenzene	5.00	4.77		ug/L		95	70 - 130
Bromochloromethane	5.00	4.77		ug/L		95	70 - 130
Bromodichloromethane	5.00	4.67		ug/L		93	70 - 130
Bromoform	5.00	4.98		ug/L		100	70 - 130
Bromomethane (Methyl Bromide)	5.00	4.53		ug/L		91	70 - 130
Carbon disulfide	5.00	4.79		ug/L		96	70 - 130
Carbon tetrachloride	5.00	4.65		ug/L		93	70 - 130
Chlorobenzene	5.00	4.78		ug/L		96	70 - 130
Chlorodibromomethane	5.00	4.35		ug/L		87	70 - 130
cis-1,3-Dichloropropene	5.00	4.53		ug/L		91	70 - 130
Dichloromethane	5.00	4.67		ug/L		93	70 - 130
Ethylbenzene	5.00	4.92		ug/L		98	70 - 130
Hexachlorobutadiene	5.00	5.57		ug/L		111	70 - 130
Isopropylbenzene	5.00	4.99		ug/L		100	70 - 130
m,p-Xylenes	10.0	9.99		ug/L		100	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	4.84		ug/L		97	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	5.06		ug/L		101	70 - 130
Naphthalene	5.00	5.01		ug/L		100	70 - 130
n-Butylbenzene	5.00	4.93		ug/L		99	70 - 130
N-Propylbenzene	5.00	5.04		ug/L		101	70 - 130
o-Chlorotoluene	5.00	4.94		ug/L		99	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	4.90		ug/L		98	70 - 130
o-Xylene	5.00	4.98		ug/L		100	70 - 130
p-Chlorotoluene	5.00	4.86		ug/L		97	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	4.85		ug/L		97	70 - 130
p-Isopropyltoluene	5.00	5.03		ug/L		101	70 - 130
sec-Butylbenzene	5.00	5.05		ug/L		101	70 - 130
Styrene	5.00	4.83		ug/L		97	70 - 130
Tert-amyl methyl ether	5.00	4.82		ug/L		96	70 - 130
1,3-Dichloropropene, Total	10.0	8.90		ug/L		89	70 - 130
Tert-butyl ethyl ether	5.00	4.80		ug/L		96	70 - 130
tert-Butylbenzene	5.00	5.03		ug/L		101	70 - 130
Tetrachloroethene (PCE)	5.00	4.83		ug/L		97	70 - 130
Toluene	5.00	4.78		ug/L		96	70 - 130
trans-1,2-Dichloroethylene	5.00	4.71		ug/L		94	70 - 130
trans-1,3-Dichloropropene	5.00	4.37		ug/L		87	70 - 130
Trichloroethylene (TCE)	5.00	4.87		ug/L		97	70 - 130
Bromoethane	5.00	4.66		ug/L		93	70 - 130

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-164064/11

Matrix: Water

Analysis Batch: 164064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane (Freon 11)	5.00	4.88		ug/L		98	70 - 130
Trichlorotrifluoroethane	5.00	4.96		ug/L		99	70 - 130
Diisopropyl ether	5.00	4.97		ug/L		99	70 - 130
Vinyl Chloride (VC)	5.00	4.83		ug/L		97	70 - 130
Xylenes, Total	15.0	15.0		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 380-164064/12

Matrix: Water

Analysis Batch: 164064

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	4.91		ug/L		98	70 - 130	2	20
1,1,1-Trichloroethane	5.00	4.74		ug/L		95	70 - 130	1	20
1,1,2,2-Tetrachloroethane	5.00	5.11		ug/L		102	70 - 130	1	20
1,1,2-Trichloroethane	5.00	4.54		ug/L		91	70 - 130	3	20
1,1-Dichloroethane	5.00	4.81		ug/L		96	70 - 130	2	20
1,1-Dichloroethylene	5.00	4.88		ug/L		98	70 - 130	3	20
1,1-Dichloropropene	5.00	4.85		ug/L		97	70 - 130	1	20
1,2,3-Trichlorobenzene	5.00	5.38		ug/L		108	70 - 130	4	20
1,2,3-Trichloropropane	5.00	4.93		ug/L		99	70 - 130	0	20
1,2,4-Trichlorobenzene	5.00	5.60		ug/L		112	70 - 130	0	20
1,2,4-Trimethylbenzene	5.00	4.94		ug/L		99	70 - 130	3	20
1,2-Dichloroethane	5.00	4.68		ug/L		94	70 - 130	3	20
1,2-Dichloropropane	5.00	4.71		ug/L		94	70 - 130	1	20
1,3,5-Trimethylbenzene	5.00	4.97		ug/L		99	70 - 130	2	20
1,3-Dichloropropane	5.00	4.74		ug/L		95	70 - 130	0	20
2,2-Dichloropropane	5.00	4.79		ug/L		96	70 - 130	3	20
2-Butanone (MEK)	50.0	40.5		ug/L		81	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	50.0	51.3		ug/L		103	70 - 130	1	20
Acetone	50.0	46.9	J	ug/L		94	70 - 130	4	20
Benzene	5.00	4.55		ug/L		91	70 - 130	8	20
Bromobenzene	5.00	4.86		ug/L		97	70 - 130	2	20
Bromochloromethane	5.00	4.87		ug/L		97	70 - 130	2	20
Bromodichloromethane	5.00	4.73		ug/L		95	70 - 130	1	20
Bromoform	5.00	5.04		ug/L		101	70 - 130	1	20
Bromomethane (Methyl Bromide)	5.00	5.05		ug/L		101	70 - 130	11	20
Carbon disulfide	5.00	4.87		ug/L		97	70 - 130	1	20
Carbon tetrachloride	5.00	4.75		ug/L		95	70 - 130	2	20
Chlorobenzene	5.00	4.80		ug/L		96	70 - 130	0	20
Chlorodibromomethane	5.00	4.48		ug/L		90	70 - 130	3	20
cis-1,3-Dichloropropene	5.00	4.55		ug/L		91	70 - 130	0	20
Dichloromethane	5.00	4.72		ug/L		94	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCSD 380-164064/12

Matrix: Water

Analysis Batch: 164064

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
Ethylbenzene	5.00	4.97		ug/L		99	70 - 130	1	20
Hexachlorobutadiene	5.00	5.20		ug/L		104	70 - 130	7	20
Isopropylbenzene	5.00	5.01		ug/L		100	70 - 130	0	20
m,p-Xylenes	10.0	10.1		ug/L		101	70 - 130	1	20
m-Dichlorobenzene (1,3-DCB)	5.00	4.83		ug/L		97	70 - 130	0	20
Methyl-tert-butyl Ether (MTBE)	5.00	5.18		ug/L		104	70 - 130	2	20
Naphthalene	5.00	5.10		ug/L		102	70 - 130	2	20
n-Butylbenzene	5.00	4.98		ug/L		100	70 - 130	1	20
N-Propylbenzene	5.00	4.94		ug/L		99	70 - 130	2	20
o-Chlorotoluene	5.00	4.90		ug/L		98	70 - 130	1	20
o-Dichlorobenzene (1,2-DCB)	5.00	4.95		ug/L		99	70 - 130	1	20
o-Xylene	5.00	5.08		ug/L		102	70 - 130	2	20
p-Chlorotoluene	5.00	4.86		ug/L		97	70 - 130	0	20
p-Dichlorobenzene (1,4-DCB)	5.00	4.79		ug/L		96	70 - 130	1	20
p-Isopropyltoluene	5.00	4.90		ug/L		98	70 - 130	3	20
sec-Butylbenzene	5.00	5.07		ug/L		101	70 - 130	0	20
Styrene	5.00	4.99		ug/L		100	70 - 130	3	20
Tert-amyl methyl ether	5.00	4.90		ug/L		98	70 - 130	2	20
1,3-Dichloropropene, Total	10.0	9.00		ug/L		90	70 - 130	1	20
Tert-butyl ethyl ether	5.00	4.99		ug/L		100	70 - 130	4	20
tert-Butylbenzene	5.00	4.87		ug/L		97	70 - 130	3	20
Tetrachloroethene (PCE)	5.00	4.82		ug/L		96	70 - 130	0	20
Toluene	5.00	4.76		ug/L		95	70 - 130	0	20
trans-1,2-Dichloroethylene	5.00	4.80		ug/L		96	70 - 130	2	20
trans-1,3-Dichloropropene	5.00	4.45		ug/L		89	70 - 130	2	20
Trichloroethylene (TCE)	5.00	4.88		ug/L		98	70 - 130	0	20
Bromoethane	5.00	4.65		ug/L		93	70 - 130	0	20
Trichlorofluoromethane (Freon 11)	5.00	5.02		ug/L		100	70 - 130	3	20
Trichlorotrifluoroethane	5.00	5.04		ug/L		101	70 - 130	2	20
Diisopropyl ether	5.00	5.16		ug/L		103	70 - 130	4	20
Vinyl Chloride (VC)	5.00	4.85		ug/L		97	70 - 130	0	20
Xylenes, Total	15.0	15.2		ug/L		101	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MRL 380-164064/13

Matrix: Water

Analysis Batch: 164064

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	0.613		ug/L		123	50 - 150
Vinyl Chloride (VC)	0.250	0.270	J	ug/L		108	50 - 150

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-164064/13

Matrix: Water

Analysis Batch: 164064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MRL 380-164064/14

Matrix: Water

Analysis Batch: 164064

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	0.479	J	ug/L		96	50 - 150
1,1,1-Trichloroethane	0.500	0.530		ug/L		106	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.531		ug/L		106	50 - 150
1,1,2-Trichloroethane	0.500	0.489	J	ug/L		98	50 - 150
1,1-Dichloroethane	0.500	0.574		ug/L		115	50 - 150
1,1-Dichloroethylene	0.500	0.564		ug/L		113	50 - 150
1,1-Dichloropropene	0.500	0.551		ug/L		110	50 - 150
1,2,3-Trichlorobenzene	0.500	0.719		ug/L		144	50 - 150
1,2,3-Trichloropropane	0.500	0.526		ug/L		105	50 - 150
1,2,4-Trichlorobenzene	0.500	0.702		ug/L		140	50 - 150
1,2,4-Trimethylbenzene	0.500	0.542		ug/L		108	50 - 150
1,2-Dichloroethane	0.500	0.523		ug/L		105	50 - 150
1,2-Dichloropropane	0.500	0.534		ug/L		107	50 - 150
1,3,5-Trimethylbenzene	0.500	0.542		ug/L		108	50 - 150
1,3-Dichloropropane	0.500	0.520		ug/L		104	50 - 150
2,2-Dichloropropane	0.500	0.522		ug/L		104	50 - 150
2-Butanone (MEK)	5.00	5.72		ug/L		114	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	5.60		ug/L		112	50 - 150
Acetone	5.00	6.53	J	ug/L		131	50 - 150
Benzene	0.500	0.518		ug/L		104	50 - 150
Bromobenzene	0.500	0.533		ug/L		107	50 - 150
Bromochloromethane	0.500	0.513		ug/L		103	50 - 150
Bromodichloromethane	0.500	0.512		ug/L		102	50 - 150
Bromoform	0.500	0.441	J	ug/L		88	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.549		ug/L		110	50 - 150
Carbon disulfide	0.500	0.503		ug/L		101	50 - 150
Carbon tetrachloride	0.500	0.517		ug/L		103	50 - 150
Chlorobenzene	0.500	0.551		ug/L		110	50 - 150
Chlorodibromomethane	0.500	0.413	J	ug/L		83	50 - 150
cis-1,3-Dichloropropene	0.500	0.465	J	ug/L		93	50 - 150
Dichloromethane	0.500	0.560		ug/L		112	50 - 150
Ethylbenzene	0.500	0.561		ug/L		112	50 - 150
Hexachlorobutadiene	0.500	0.715		ug/L		143	50 - 150
Isopropylbenzene	0.500	0.538		ug/L		108	50 - 150
m,p-Xylenes	1.00	1.13		ug/L		113	50 - 150
m-Dichlorobenzene (1,3-DCB)	0.500	0.556		ug/L		111	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.531		ug/L		106	50 - 150
Naphthalene	0.500	0.651		ug/L		130	50 - 150

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-164064/14

Matrix: Water

Analysis Batch: 164064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
n-Butylbenzene	0.500	0.594		ug/L		119	50 - 150
N-Propylbenzene	0.500	0.549		ug/L		110	50 - 150
o-Chlorotoluene	0.500	0.542		ug/L		108	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.587		ug/L		117	50 - 150
o-Xylene	0.500	0.563		ug/L		113	50 - 150
p-Chlorotoluene	0.500	0.527		ug/L		105	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.525		ug/L		105	50 - 150
p-Isopropyltoluene	0.500	0.556		ug/L		111	50 - 150
sec-Butylbenzene	0.500	0.560		ug/L		112	50 - 150
Styrene	0.500	0.506		ug/L		101	50 - 150
Tert-amyl methyl ether	0.500	0.516	J	ug/L		103	50 - 150
1,3-Dichloropropene, Total	1.00	0.905		ug/L		91	50 - 150
Tert-butyl ethyl ether	0.500	0.519	J	ug/L		104	50 - 150
tert-Butylbenzene	0.500	0.544		ug/L		109	50 - 150
Tetrachloroethene (PCE)	0.500	0.539		ug/L		108	50 - 150
Toluene	0.500	0.541		ug/L		108	50 - 150
trans-1,2-Dichloroethylene	0.500	0.575		ug/L		115	50 - 150
trans-1,3-Dichloropropene	0.500	0.440	J	ug/L		88	50 - 150
Trichloroethylene (TCE)	0.500	0.528		ug/L		106	50 - 150
Bromoethane	0.500	0.639		ug/L		128	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.544		ug/L		109	50 - 150
Trichlorotrifluoroethane	0.500	0.516		ug/L		103	50 - 150
Diisopropyl ether	0.500	0.531	J	ug/L		106	50 - 150
Vinyl Chloride (VC)	0.500	0.525		ug/L		105	50 - 150
Xylenes, Total	1.50	1.69		ug/L		113	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MRL 380-164070/13

Matrix: Water

Analysis Batch: 164070

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	0.606		ug/L		121	50 - 150
Vinyl Chloride (VC)	0.250	0.361		ug/L		145	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-164070/14

Matrix: Water

Analysis Batch: 164070

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	0.551		ug/L		110	50 - 150
1,1,1-Trichloroethane	0.500	0.536		ug/L		107	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.728		ug/L		146	50 - 150
1,1,2-Trichloroethane	0.500	0.634		ug/L		127	50 - 150
1,1-Dichloroethane	0.500	0.605		ug/L		121	50 - 150
1,1-Dichlorethylene	0.500	0.617		ug/L		123	50 - 150
1,1-Dichloropropene	0.500	0.577		ug/L		115	50 - 150
1,2,3-Trichlorobenzene	0.500	0.752		ug/L		150	50 - 150
1,2,3-Trichloropropane	0.500	0.726		ug/L		145	50 - 150
1,2,4-Trichlorobenzene	0.500	0.721		ug/L		144	50 - 150
1,2,4-Trimethylbenzene	0.500	0.647		ug/L		129	50 - 150
1,2-Dichloroethane	0.500	0.602		ug/L		120	50 - 150
1,2-Dichloropropane	0.500	0.603		ug/L		121	50 - 150
1,3,5-Trimethylbenzene	0.500	0.646		ug/L		129	50 - 150
1,3-Dichloropropane	0.500	0.633		ug/L		127	50 - 150
2,2-Dichloropropane	0.500	0.688		ug/L		138	50 - 150
2-Butanone (MEK)	5.00	6.52		ug/L		130	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	6.28		ug/L		126	50 - 150
Acetone	5.00	6.42	J	ug/L		128	50 - 150
Benzene	0.500	0.675		ug/L		135	50 - 150
Bromobenzene	0.500	0.628		ug/L		126	50 - 150
Bromochloromethane	0.500	0.605		ug/L		121	50 - 150
Bromodichloromethane	0.500	0.498	J	ug/L		100	50 - 150
Bromoform	0.500	0.635		ug/L		127	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.661		ug/L		132	50 - 150
Carbon disulfide	0.500	0.612		ug/L		122	50 - 150
Carbon tetrachloride	0.500	0.509		ug/L		102	50 - 150
Chlorobenzene	0.500	0.620		ug/L		124	50 - 150
Chlorodibromomethane	0.500	0.739		ug/L		148	50 - 150
cis-1,3-Dichloropropene	0.500	0.709		ug/L		142	50 - 150
Dichloromethane	0.500	0.612		ug/L		122	50 - 150
Ethylbenzene	0.500	0.571		ug/L		114	50 - 150
Hexachlorobutadiene	0.500	0.766	^3+	ug/L		153	50 - 150
Isopropylbenzene	0.500	0.605		ug/L		121	50 - 150
m,p-Xylenes	1.00	1.15		ug/L		115	50 - 150
m-Dichlorobenzene (1,3-DCB)	0.500	0.698		ug/L		140	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.618		ug/L		124	50 - 150
Naphthalene	0.500	0.691		ug/L		138	50 - 150
n-Butylbenzene	0.500	0.661		ug/L		132	50 - 150
N-Propylbenzene	0.500	0.614		ug/L		123	50 - 150
o-Chlorotoluene	0.500	0.658		ug/L		132	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.684		ug/L		137	50 - 150
o-Xylene	0.500	0.568		ug/L		114	50 - 150
p-Chlorotoluene	0.500	0.648		ug/L		130	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.694		ug/L		139	50 - 150
p-Isopropyltoluene	0.500	0.653		ug/L		131	50 - 150
sec-Butylbenzene	0.500	0.676		ug/L		135	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-164070/14

Matrix: Water

Analysis Batch: 164070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	0.500	0.572		ug/L		114	50 - 150
Tert-amyl methyl ether	0.500	0.625	J	ug/L		125	50 - 150
1,3-Dichloropropene, Total	1.00	1.43		ug/L		143	50 - 150
Tert-butyl ethyl ether	0.500	0.630	J	ug/L		126	50 - 150
tert-Butylbenzene	0.500	0.686		ug/L		137	50 - 150
Tetrachloroethene (PCE)	0.500	0.611		ug/L		122	50 - 150
Toluene	0.500	0.604		ug/L		121	50 - 150
trans-1,2-Dichloroethylene	0.500	0.630		ug/L		126	50 - 150
trans-1,3-Dichloropropene	0.500	0.719		ug/L		144	50 - 150
Trichloroethylene (TCE)	0.500	0.596		ug/L		119	50 - 150
Bromoethane	0.500	0.595		ug/L		119	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.517		ug/L		103	50 - 150
Trichlorotrifluoroethane	0.500	0.572		ug/L		114	50 - 150
Diisopropyl ether	0.500	0.649	J	ug/L		130	50 - 150
Vinyl Chloride (VC)	0.500	0.624		ug/L		125	50 - 150
Xylenes, Total	1.50	1.72		ug/L		114	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 380-164128/5

Matrix: Water

Analysis Batch: 164128

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			07/22/25 02:39	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			07/22/25 02:39	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,1-Dichloroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			07/22/25 02:39	1
1,1-Dichloropropene	<0.50		0.50	ug/L			07/22/25 02:39	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
1,2-Dichloroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,2-Dichloropropane	<0.50		0.50	ug/L			07/22/25 02:39	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
1,3-Dichloropropane	<0.50		0.50	ug/L			07/22/25 02:39	1
2,2-Dichloropropane	<0.50		0.50	ug/L			07/22/25 02:39	1
2-Butanone (MEK)	<5.0		5.0	ug/L			07/22/25 02:39	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			07/22/25 02:39	1
Acetone	<500		500	ug/L			07/22/25 02:39	1

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 380-164128/5

Matrix: Water

Analysis Batch: 164128

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50	ug/L			07/22/25 02:39	1
Bromobenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
Bromochloromethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Bromodichloromethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Bromoform	<0.50		0.50	ug/L			07/22/25 02:39	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			07/22/25 02:39	1
Carbon disulfide	<0.50		0.50	ug/L			07/22/25 02:39	1
Carbon tetrachloride	<0.50		0.50	ug/L			07/22/25 02:39	1
Chlorobenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
Chlorodibromomethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Chloroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			07/22/25 02:39	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/22/25 02:39	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			07/22/25 02:39	1
Dibromomethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Dichloromethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Ethylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
Hexachlorobutadiene	<0.50		0.50	ug/L			07/22/25 02:39	1
Isopropylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
m,p-Xylenes	<0.50		0.50	ug/L			07/22/25 02:39	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			07/22/25 02:39	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			07/22/25 02:39	1
Naphthalene	<0.50		0.50	ug/L			07/22/25 02:39	1
n-Butylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
N-Propylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
o-Chlorotoluene	<0.50		0.50	ug/L			07/22/25 02:39	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			07/22/25 02:39	1
o-Xylene	<0.50		0.50	ug/L			07/22/25 02:39	1
p-Chlorotoluene	<0.50		0.50	ug/L			07/22/25 02:39	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			07/22/25 02:39	1
p-Isopropyltoluene	<0.50		0.50	ug/L			07/22/25 02:39	1
sec-Butylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
Styrene	<0.50		0.50	ug/L			07/22/25 02:39	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			07/22/25 02:39	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			07/22/25 02:39	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			07/22/25 02:39	1
tert-Butylbenzene	<0.50		0.50	ug/L			07/22/25 02:39	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			07/22/25 02:39	1
Toluene	<0.50		0.50	ug/L			07/22/25 02:39	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			07/22/25 02:39	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			07/22/25 02:39	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			07/22/25 02:39	1
Bromoethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			07/22/25 02:39	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			07/22/25 02:39	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			07/22/25 02:39	1
Diisopropyl ether	<3.0		3.0	ug/L			07/22/25 02:39	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 380-164128/5

Matrix: Water

Analysis Batch: 164128

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl Chloride (VC)	<0.30		0.30	ug/L			07/22/25 02:39	1
Xylenes, Total	<0.50		0.50	ug/L			07/22/25 02:39	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2,4-Hexadiyne	0.711	T J N	ug/L		6.50	2809-69-0		07/22/25 02:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		07/22/25 02:39	1
4-Bromofluorobenzene (Surr)	106		70 - 130		07/22/25 02:39	1
Toluene-d8 (Surr)	96		70 - 130		07/22/25 02:39	1

Lab Sample ID: LCS 380-164128/3

Matrix: Water

Analysis Batch: 164128

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	4.71		ug/L		94	70 - 130
1,1,1-Trichloroethane	5.00	4.52		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.01		ug/L		100	70 - 130
1,1,2-Trichloroethane	5.00	4.72		ug/L		94	70 - 130
1,1-Dichloroethane	5.00	4.74		ug/L		95	70 - 130
1,1-Dichloroethylene	5.00	4.78		ug/L		96	70 - 130
1,1-Dichloropropene	5.00	4.62		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	5.00	4.72		ug/L		94	70 - 130
1,2,3-Trichloropropane	5.00	4.90		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	5.00	4.74		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	5.00	5.26		ug/L		105	70 - 130
1,2-Dichloroethane	5.00	4.87		ug/L		97	70 - 130
1,2-Dichloropropane	5.00	4.79		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	5.00	5.33		ug/L		107	70 - 130
1,3-Dichloropropane	5.00	4.71		ug/L		94	70 - 130
2,2-Dichloropropane	5.00	4.01		ug/L		80	70 - 130
2-Butanone (MEK)	50.0	46.0		ug/L		92	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	49.9		ug/L		100	70 - 130
Acetone	50.0	45.1 J		ug/L		90	70 - 130
Benzene	5.00	4.67		ug/L		93	70 - 130
Bromobenzene	5.00	4.70		ug/L		94	70 - 130
Bromochloromethane	5.00	4.69		ug/L		94	70 - 130
Bromodichloromethane	5.00	4.50		ug/L		90	70 - 130
Bromoform	5.00	4.80		ug/L		96	70 - 130
Bromomethane (Methyl Bromide)	5.00	5.66		ug/L		113	70 - 130
Carbon disulfide	5.00	4.85		ug/L		97	70 - 130
Carbon tetrachloride	5.00	4.75		ug/L		95	70 - 130
Chlorobenzene	5.00	4.72		ug/L		94	70 - 130
Chlorodibromomethane	5.00	4.62		ug/L		92	70 - 130
cis-1,3-Dichloropropene	5.00	4.50		ug/L		90	70 - 130
Dichloromethane	5.00	4.80		ug/L		96	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-164128/3

Matrix: Water

Analysis Batch: 164128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	5.00	4.91		ug/L		98	70 - 130
Hexachlorobutadiene	5.00	4.68		ug/L		94	70 - 130
Isopropylbenzene	5.00	4.83		ug/L		97	70 - 130
m,p-Xylenes	10.0	9.92		ug/L		99	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	5.05		ug/L		101	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.84		ug/L		97	70 - 130
Naphthalene	5.00	4.73		ug/L		95	70 - 130
n-Butylbenzene	5.00	4.90		ug/L		98	70 - 130
N-Propylbenzene	5.00	4.92		ug/L		98	70 - 130
o-Chlorotoluene	5.00	5.08		ug/L		102	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	4.65		ug/L		93	70 - 130
o-Xylene	5.00	5.03		ug/L		101	70 - 130
p-Chlorotoluene	5.00	4.88		ug/L		98	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	4.93		ug/L		99	70 - 130
p-Isopropyltoluene	5.00	5.35		ug/L		107	70 - 130
sec-Butylbenzene	5.00	5.39		ug/L		108	70 - 130
Styrene	5.00	4.91		ug/L		98	70 - 130
Tert-amyl methyl ether	5.00	4.78		ug/L		96	70 - 130
1,3-Dichloropropene, Total	10.0	8.97		ug/L		90	70 - 130
Tert-butyl ethyl ether	5.00	4.96		ug/L		99	70 - 130
tert-Butylbenzene	5.00	5.38		ug/L		108	70 - 130
Tetrachloroethene (PCE)	5.00	4.71		ug/L		94	70 - 130
Toluene	5.00	4.74		ug/L		95	70 - 130
trans-1,2-Dichloroethylene	5.00	4.70		ug/L		94	70 - 130
trans-1,3-Dichloropropene	5.00	4.47		ug/L		89	70 - 130
Trichloroethylene (TCE)	5.00	4.73		ug/L		95	70 - 130
Bromoethane	5.00	4.92		ug/L		98	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	4.56		ug/L		91	70 - 130
Trichlorotrifluoroethane	5.00	4.82		ug/L		96	70 - 130
Diisopropyl ether	5.00	4.69		ug/L		94	70 - 130
Vinyl Chloride (VC)	5.00	4.92		ug/L		98	70 - 130
Xylenes, Total	15.0	14.9		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 380-164128/4

Matrix: Water

Analysis Batch: 164128

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	4.52		ug/L		90	70 - 130	4	20
1,1,1-Trichloroethane	5.00	4.33		ug/L		87	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	5.00	4.86		ug/L		97	70 - 130	3	20
1,1,2-Trichloroethane	5.00	4.57		ug/L		91	70 - 130	3	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCSD 380-164128/4

Matrix: Water

Analysis Batch: 164128

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-Dichloroethane	5.00	4.56		ug/L		91	70 - 130	4	20
1,1-Dichloroethylene	5.00	4.61		ug/L		92	70 - 130	4	20
1,1-Dichloropropene	5.00	4.43		ug/L		89	70 - 130	4	20
1,2,3-Trichlorobenzene	5.00	4.60		ug/L		92	70 - 130	3	20
1,2,3-Trichloropropane	5.00	4.74		ug/L		95	70 - 130	3	20
1,2,4-Trichlorobenzene	5.00	4.70		ug/L		94	70 - 130	1	20
1,2,4-Trimethylbenzene	5.00	4.97		ug/L		99	70 - 130	6	20
1,2-Dichloroethane	5.00	4.72		ug/L		94	70 - 130	3	20
1,2-Dichloropropane	5.00	4.60		ug/L		92	70 - 130	4	20
1,3,5-Trimethylbenzene	5.00	5.16		ug/L		103	70 - 130	3	20
1,3-Dichloropropane	5.00	4.65		ug/L		93	70 - 130	1	20
2,2-Dichloropropane	5.00	3.89		ug/L		78	70 - 130	3	20
2-Butanone (MEK)	50.0	46.2		ug/L		92	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	50.0	48.9		ug/L		98	70 - 130	2	20
Acetone	50.0	45.1	J	ug/L		90	70 - 130	0	20
Benzene	5.00	4.56		ug/L		91	70 - 130	2	20
Bromobenzene	5.00	4.50		ug/L		90	70 - 130	5	20
Bromochloromethane	5.00	4.54		ug/L		91	70 - 130	3	20
Bromodichloromethane	5.00	4.34		ug/L		87	70 - 130	4	20
Bromoform	5.00	4.57		ug/L		91	70 - 130	5	20
Bromomethane (Methyl Bromide)	5.00	5.01		ug/L		100	70 - 130	12	20
Carbon disulfide	5.00	4.57		ug/L		91	70 - 130	6	20
Carbon tetrachloride	5.00	4.51		ug/L		90	70 - 130	5	20
Chlorobenzene	5.00	4.62		ug/L		92	70 - 130	2	20
Chlorodibromomethane	5.00	4.52		ug/L		90	70 - 130	2	20
cis-1,3-Dichloropropene	5.00	4.44		ug/L		89	70 - 130	1	20
Dichloromethane	5.00	4.71		ug/L		94	70 - 130	2	20
Ethylbenzene	5.00	4.68		ug/L		94	70 - 130	5	20
Hexachlorobutadiene	5.00	4.64		ug/L		93	70 - 130	1	20
Isopropylbenzene	5.00	4.64		ug/L		93	70 - 130	4	20
m,p-Xylenes	10.0	9.58		ug/L		96	70 - 130	3	20
m-Dichlorobenzene (1,3-DCB)	5.00	4.81		ug/L		96	70 - 130	5	20
Methyl-tert-butyl Ether (MTBE)	5.00	4.75		ug/L		95	70 - 130	2	20
Naphthalene	5.00	4.62		ug/L		92	70 - 130	2	20
n-Butylbenzene	5.00	4.80		ug/L		96	70 - 130	2	20
N-Propylbenzene	5.00	4.68		ug/L		94	70 - 130	5	20
o-Chlorotoluene	5.00	4.89		ug/L		98	70 - 130	4	20
o-Dichlorobenzene (1,2-DCB)	5.00	4.57		ug/L		91	70 - 130	2	20
o-Xylene	5.00	4.82		ug/L		96	70 - 130	4	20
p-Chlorotoluene	5.00	4.75		ug/L		95	70 - 130	3	20
p-Dichlorobenzene (1,4-DCB)	5.00	4.81		ug/L		96	70 - 130	3	20
p-Isopropyltoluene	5.00	5.17		ug/L		103	70 - 130	3	20
sec-Butylbenzene	5.00	5.16		ug/L		103	70 - 130	4	20
Styrene	5.00	4.80		ug/L		96	70 - 130	2	20
Tert-amyl methyl ether	5.00	4.62		ug/L		92	70 - 130	3	20
1,3-Dichloropropene, Total	10.0	8.80		ug/L		88	70 - 130	2	20
Tert-butyl ethyl ether	5.00	4.88		ug/L		98	70 - 130	1	20
tert-Butylbenzene	5.00	5.13		ug/L		103	70 - 130	5	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCSD 380-164128/4

Matrix: Water

Analysis Batch: 164128

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
Tetrachloroethene (PCE)	5.00	4.46		ug/L		89	70 - 130	6	20
Toluene	5.00	4.62		ug/L		92	70 - 130	2	20
trans-1,2-Dichloroethylene	5.00	4.52		ug/L		90	70 - 130	4	20
trans-1,3-Dichloropropene	5.00	4.36		ug/L		87	70 - 130	3	20
Trichloroethylene (TCE)	5.00	4.53		ug/L		91	70 - 130	4	20
Bromoethane	5.00	4.68		ug/L		94	70 - 130	5	20
Trichlorofluoromethane (Freon 11)	5.00	4.31		ug/L		86	70 - 130	6	20
Trichlorotrifluoroethane	5.00	4.61		ug/L		92	70 - 130	5	20
Diisopropyl ether	5.00	4.56		ug/L		91	70 - 130	3	20
Vinyl Chloride (VC)	5.00	4.70		ug/L		94	70 - 130	5	20
Xylenes, Total	15.0	14.4		ug/L		96	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

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

Lab Sample ID: MB 380-162833/21-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
2,4'-DDE	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
2,4'-DDT	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
4,4'-DDD	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
4,4'-DDE	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
4,4'-DDT	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Acenaphthene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Acenaphthylene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Acetochlor	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Alachlor	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
alpha-BHC	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
alpha-Chlordane	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Anthracene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 11:56	1
Atrazine	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Benz(a)anthracene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 11:56	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 11:56	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 11:56	1
beta-BHC	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		07/15/25 06:23	07/16/25 11:56	1

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 380-162833/21-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0099		0.0099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Bromacil	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Butachlor	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Butylbenzylphthalate	<0.50		0.50	ug/L		07/15/25 06:23	07/16/25 11:56	1
Chlorobenzilate	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Chloroneb	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Chlorpyrifos	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Chrysene	<0.020		0.020	ug/L		07/15/25 06:23	07/16/25 11:56	1
delta-BHC	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		07/15/25 06:23	07/16/25 11:56	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Dieldrin	<0.0099		0.0099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Diethylphthalate	<0.50		0.50	ug/L		07/15/25 06:23	07/16/25 11:56	1
Dimethylphthalate	<0.50		0.50	ug/L		07/15/25 06:23	07/16/25 11:56	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		07/15/25 06:23	07/16/25 11:56	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Endosulfan sulfate	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Endrin	<0.0099		0.0099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Endrin aldehyde	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
EPTC	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Fluoranthene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Fluorene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
gamma-BHC (Lindane)	<0.0099		0.0099	ug/L		07/15/25 06:23	07/16/25 11:56	1
gamma-Chlordane	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Heptachlor	<0.0099		0.0099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Hexachlorobenzene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Isophorone	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Malathion	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Methoxychlor	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Metolachlor	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Molinate	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Naphthalene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Parathion	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Phenanthrene	<0.040		0.040	ug/L		07/15/25 06:23	07/16/25 11:56	1
Propachlor	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Pyrene	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Simazine	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Terbacil	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Terbuthylazine	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
Thiobencarb	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 380-162833/21-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/15/25 06:23	07/16/25 11:56	1
trans-Nonachlor	<0.050		0.050	ug/L		07/15/25 06:23	07/16/25 11:56	1
Trifluralin	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
1-Methylnaphthalene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1
2-Methylnaphthalene	<0.099		0.099	ug/L		07/15/25 06:23	07/16/25 11:56	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclohexasiloxane, dodecamethyl-	0.542	T J N	ug/L		3.88	540-97-6	07/15/25 06:23	07/16/25 11:56	1
9-Octadecenamide, (Z)-	6.53	T J N	ug/L		7.89	301-02-0	07/15/25 06:23	07/16/25 11:56	1
13-Docosenamide, (Z)-	0.710	T J N	ug/L		10.42	112-84-5	07/15/25 06:23	07/16/25 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	07/15/25 06:23	07/16/25 11:56	1
Perylene-d12	81		70 - 130	07/15/25 06:23	07/16/25 11:56	1
Triphenylphosphate	104		70 - 130	07/15/25 06:23	07/16/25 11:56	1

Lab Sample ID: LCS 380-162833/23-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.99	2.07		ug/L		104	70 - 130
2,4'-DDE	1.99	2.08		ug/L		105	70 - 130
2,4'-DDT	1.99	1.98		ug/L		100	70 - 130
2,4-Dinitrotoluene	1.99	1.92		ug/L		97	70 - 130
2,6-Dinitrotoluene	1.99	1.91		ug/L		96	70 - 130
4,4'-DDD	1.99	2.15		ug/L		108	70 - 130
4,4'-DDE	1.99	2.05		ug/L		103	70 - 130
4,4'-DDT	1.99	2.14		ug/L		108	70 - 130
Acenaphthene	1.99	1.91		ug/L		96	70 - 130
Acenaphthylene	1.99	1.96		ug/L		98	70 - 130
Acetochlor	1.99	2.02		ug/L		102	70 - 130
Alachlor	1.99	2.02		ug/L		102	70 - 130
alpha-BHC	1.99	1.95		ug/L		98	70 - 130
alpha-Chlordane	1.99	2.09		ug/L		105	70 - 130
Anthracene	1.99	1.83		ug/L		92	70 - 130
Atrazine	1.99	2.04		ug/L		103	70 - 130
Benz(a)anthracene	1.99	2.00		ug/L		100	70 - 130
Benzo[a]pyrene	1.99	1.92		ug/L		96	70 - 130
Benzo[b]fluoranthene	1.99	1.98		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.99	2.02		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.99	1.94		ug/L		98	70 - 130
beta-BHC	1.99	2.04		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.75		ug/L		88	70 - 130
Aldrin	1.99	1.88		ug/L		95	70 - 130
Bromacil	1.99	2.13		ug/L		107	70 - 130
Butachlor	1.99	2.28		ug/L		115	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-162833/23-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	1.99	2.23		ug/L		112	70 - 130
Chlorobenzilate	1.99	2.18		ug/L		109	70 - 130
Chloroneb	1.99	1.98		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.00		ug/L		100	70 - 130
Chlorpyrifos	1.99	2.08		ug/L		104	70 - 130
Chrysene	1.99	2.03		ug/L		102	70 - 130
delta-BHC	1.99	1.92		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.03		ug/L		102	70 - 130
Dibenz(a,h)anthracene	1.99	1.81		ug/L		91	70 - 130
Diclorvos (DDVP)	1.99	1.99		ug/L		100	70 - 130
Dieldrin	1.99	1.98		ug/L		99	70 - 130
Diethylphthalate	1.99	2.04		ug/L		102	70 - 130
Dimethylphthalate	1.99	2.06		ug/L		104	70 - 130
Di-n-butyl phthalate	3.98	4.50		ug/L		113	70 - 130
Di-n-octyl phthalate	1.99	1.72		ug/L		86	70 - 130
Endosulfan I (Alpha)	1.99	1.86		ug/L		93	70 - 130
Endosulfan II (Beta)	1.99	1.98		ug/L		100	70 - 130
Endosulfan sulfate	1.99	2.10		ug/L		106	70 - 130
Endrin	1.99	2.12		ug/L		107	70 - 130
Endrin aldehyde	1.99	1.82		ug/L		92	60 - 130
EPTC	1.99	2.07		ug/L		104	70 - 130
Fluoranthene	1.99	2.13		ug/L		107	70 - 130
Fluorene	1.99	1.99		ug/L		100	70 - 130
gamma-BHC (Lindane)	1.99	2.12		ug/L		107	70 - 130
gamma-Chlordane	1.99	2.13		ug/L		107	70 - 130
Heptachlor	1.99	2.17		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.08		ug/L		104	70 - 130
Hexachlorobenzene	1.99	1.96		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.99	2.01		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	1.84		ug/L		92	70 - 130
Isophorone	1.99	1.98		ug/L		100	70 - 130
Malathion	1.99	2.06		ug/L		104	70 - 130
Methoxychlor	1.99	2.10		ug/L		106	70 - 130
Metolachlor	1.99	2.20		ug/L		110	70 - 130
Molinate	1.99	2.05		ug/L		103	70 - 130
Naphthalene	1.99	1.86		ug/L		93	70 - 130
Parathion	1.99	2.05		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	1.99	1.90		ug/L		96	70 - 130
Phenanthrene	1.99	1.87		ug/L		94	70 - 130
Propachlor	1.99	2.04		ug/L		102	70 - 130
Pyrene	1.99	2.20		ug/L		110	70 - 130
Simazine	1.99	2.21		ug/L		111	70 - 130
Terbacil	1.99	2.13		ug/L		107	70 - 130
Terbutylazine	1.99	2.19		ug/L		110	70 - 130
Thiobencarb	1.99	2.20		ug/L		111	70 - 130
trans-Nonachlor	1.99	2.13		ug/L		107	70 - 130
Trifluralin	1.99	1.92		ug/L		97	70 - 130
1-Methylnaphthalene	1.99	2.06		ug/L		104	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-162833/23-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.99	1.92		ug/L		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: MRL 380-162833/22-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0992	0.0880	J	ug/L		89	50 - 150
2,4'-DDE	0.0992	0.0994		ug/L		100	50 - 150
2,4'-DDT	0.0992	0.118		ug/L		119	50 - 150
2,4-Dinitrotoluene	0.0992	0.102		ug/L		103	50 - 150
2,6-Dinitrotoluene	0.0992	0.0964	J	ug/L		97	50 - 150
4,4'-DDD	0.0992	0.100		ug/L		101	50 - 150
4,4'-DDE	0.0992	0.0945	J	ug/L		95	50 - 150
4,4'-DDT	0.0992	0.127		ug/L		128	50 - 150
Acenaphthene	0.0992	0.0993		ug/L		100	50 - 150
Acenaphthylene	0.0992	0.0952	J	ug/L		96	50 - 150
Acetochlor	0.0992	0.107		ug/L		108	50 - 150
Alachlor	0.0496	0.0568		ug/L		114	50 - 150
alpha-BHC	0.0992	0.0980	J	ug/L		99	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		101	50 - 150
Anthracene	0.0198	0.0232		ug/L		117	50 - 150
Atrazine	0.0496	0.0562		ug/L		113	50 - 150
Benz(a)anthracene	0.0496	0.0555		ug/L		112	50 - 150
Benzo[a]pyrene	0.0198	0.0214		ug/L		108	50 - 150
Benzo[b]fluoranthene	0.0198	0.0238		ug/L		120	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0397	J	ug/L		80	50 - 150
Benzo[k]fluoranthene	0.0198	0.0211		ug/L		107	50 - 150
beta-BHC	0.0992	0.107		ug/L		108	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.529	J	ug/L		89	50 - 150
Aldrin	0.00992	<0.0099		ug/L		99	50 - 150
Bromacil	0.0992	0.109		ug/L		110	50 - 150
Butachlor	0.0496	0.0565		ug/L		114	50 - 150
Butylbenzylphthalate	0.496	0.584		ug/L		118	50 - 150
Chlorobenzilate	0.0992	0.0987	J	ug/L		99	50 - 150
Chloroneb	0.0992	0.0996		ug/L		100	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0992	0.0951	J	ug/L		96	50 - 150
Chlorpyrifos	0.0496	0.0564		ug/L		114	50 - 150
Chrysene	0.0198	0.0232		ug/L		117	50 - 150
delta-BHC	0.0992	0.103		ug/L		104	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.625		ug/L		105	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0414	J	ug/L		83	50 - 150

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-162833/22-A

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Diclorvos (DDVP)	0.0496	0.0548		ug/L		111	50 - 150
Dieldrin	0.00992	0.0128		ug/L		129	50 - 150
Diethylphthalate	0.496	0.519		ug/L		105	50 - 150
Dimethylphthalate	0.496	0.518		ug/L		105	50 - 150
Di-n-butyl phthalate	0.496	0.990		ug/L		200	49 - 243
Di-n-octyl phthalate	0.0992	0.0850	J	ug/L		86	50 - 150
Endosulfan I (Alpha)	0.0992	0.0878	J	ug/L		88	50 - 150
Endosulfan II (Beta)	0.0992	0.104		ug/L		105	50 - 150
Endosulfan sulfate	0.0992	0.0920	J	ug/L		93	50 - 150
Endrin	0.00992	0.0107		ug/L		108	50 - 150
Endrin aldehyde	0.0992	0.120		ug/L		121	50 - 150
EPTC	0.0992	0.0990		ug/L		100	50 - 150
Fluoranthene	0.0992	0.101		ug/L		102	50 - 150
Fluorene	0.0496	0.0525		ug/L		106	50 - 150
gamma-BHC (Lindane)	0.00992	0.0110		ug/L		111	50 - 150
gamma-Chlordane	0.0248	0.0237	J	ug/L		96	50 - 150
Heptachlor	0.00992	0.0100		ug/L		101	50 - 150
Heptachlor epoxide (isomer B)	0.00992	0.00930	J	ug/L		94	50 - 150
Hexachlorobenzene	0.0496	0.0489	J	ug/L		99	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0562		ug/L		113	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0432	J	ug/L		87	50 - 150
Isophorone	0.0992	0.111		ug/L		112	50 - 150
Malathion	0.0992	0.107		ug/L		108	50 - 150
Methoxychlor	0.0496	0.0601		ug/L		121	50 - 150
Metolachlor	0.0496	0.0561		ug/L		113	50 - 150
Molinate	0.0992	0.106		ug/L		107	50 - 150
Naphthalene	0.0992	0.0930	J	ug/L		94	50 - 150
Parathion	0.0992	0.0929	J	ug/L		94	50 - 150
Pendimethalin (Penoxaline)	0.0992	0.106		ug/L		107	50 - 150
Phenanthrene	0.0397	0.0432		ug/L		109	50 - 150
Propachlor	0.0496	0.0556		ug/L		112	50 - 150
Pyrene	0.0496	0.0529		ug/L		107	50 - 150
Simazine	0.0496	0.0364	J	ug/L		73	50 - 150
Terbacil	0.0992	0.0932	J	ug/L		94	50 - 150
Terbutylazine	0.0992	0.103		ug/L		104	50 - 150
Thiobencarb	0.0992	0.107		ug/L		108	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		92	50 - 150
Trifluralin	0.0992	0.102		ug/L		103	50 - 150
1-Methylnaphthalene	0.0992	0.102		ug/L		103	50 - 150
2-Methylnaphthalene	0.0992	0.107		ug/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	102		70 - 130

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-160162-B-1-A MS

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	<0.098		1.98	2.02		ug/L		102	70 - 130
2,4'-DDE	<0.098		1.98	1.99		ug/L		100	70 - 130
2,4'-DDT	<0.098		1.98	1.82		ug/L		92	70 - 130
2,4-Dinitrotoluene	<0.098		1.98	1.96		ug/L		99	70 - 130
2,6-Dinitrotoluene	<0.098		1.98	1.93		ug/L		98	70 - 130
4,4'-DDD	<0.098		1.98	2.03		ug/L		102	70 - 130
4,4'-DDE	<0.098		1.98	1.92		ug/L		97	70 - 130
4,4'-DDT	<0.098		1.98	1.94		ug/L		98	70 - 130
Acenaphthene	<0.098		1.98	1.86		ug/L		94	70 - 130
Acenaphthylene	<0.098		1.98	1.92		ug/L		97	70 - 130
Acetochlor	<0.098		1.98	2.11		ug/L		107	70 - 130
Alachlor	<0.049		1.98	2.12		ug/L		107	70 - 130
alpha-BHC	<0.098		1.98	1.88		ug/L		95	70 - 130
alpha-Chlordane	<0.049		1.98	2.06		ug/L		104	70 - 130
Anthracene	<0.020		1.98	1.62		ug/L		82	70 - 130
Atrazine	<0.049		1.98	2.01		ug/L		99	70 - 130
Benz(a)anthracene	<0.049		1.98	1.89		ug/L		96	70 - 130
Benzo[a]pyrene	<0.020		1.98	1.76		ug/L		89	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	1.94		ug/L		98	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	1.96		ug/L		99	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	1.91		ug/L		97	70 - 130
beta-BHC	<0.098		1.98	1.98		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.59		ug/L		80	70 - 130
Aldrin	<0.0098		1.98	1.86		ug/L		94	70 - 130
Bromacil	<0.098		1.98	2.10		ug/L		106	70 - 130
Butachlor	<0.049		1.98	2.23		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.98	2.01		ug/L		101	70 - 130
Chlorobenzilate	<0.098		1.98	2.00		ug/L		101	70 - 130
Chloroneb	<0.098		1.98	1.93		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.98	2.02		ug/L		102	70 - 130
Chlorpyrifos	<0.049		1.98	2.09		ug/L		106	70 - 130
Chrysene	<0.020		1.98	2.03		ug/L		103	70 - 130
delta-BHC	<0.098		1.98	1.94		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	1.73		ug/L		87	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	1.75		ug/L		89	70 - 130
Diclorvos (DDVP)	<0.049		1.98	2.02		ug/L		102	70 - 130
Dieldrin	<0.0098		1.98	2.04		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.98	2.03		ug/L		102	70 - 130
Dimethylphthalate	<0.49		1.98	1.97		ug/L		100	70 - 130
Di-n-butyl phthalate	<0.98		3.96	4.41		ug/L		105	70 - 130
Di-n-octyl phthalate	<0.098		1.98	1.51		ug/L		77	70 - 130
Endosulfan I (Alpha)	<0.098		1.98	1.86		ug/L		94	70 - 130
Endosulfan II (Beta)	<0.098		1.98	1.93		ug/L		98	70 - 130
Endosulfan sulfate	<0.098		1.98	2.03		ug/L		102	70 - 130
Endrin	<0.0098		1.98	2.06		ug/L		104	70 - 130
Endrin aldehyde	<0.098		1.98	1.48		ug/L		75	60 - 130
EPTC	<0.098		1.98	2.06		ug/L		104	70 - 130

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-160162-B-1-A MS

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	<0.098		1.98	2.06		ug/L		104	70 - 130
Fluorene	<0.049		1.98	1.95		ug/L		99	70 - 130
gamma-BHC (Lindane)	<0.0098		1.98	2.07		ug/L		105	70 - 130
gamma-Chlordane	<0.049		1.98	2.09		ug/L		106	70 - 130
Heptachlor	<0.0098		1.98	2.20		ug/L		111	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.98	2.06		ug/L		104	70 - 130
Hexachlorobenzene	<0.049		1.98	1.95		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.049		1.98	1.94		ug/L		97	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.98	1.79		ug/L		91	70 - 130
Isophorone	<0.098		1.98	1.97		ug/L		100	70 - 130
Malathion	<0.098		1.98	2.02		ug/L		102	70 - 130
Methoxychlor	<0.049		1.98	2.11		ug/L		107	70 - 130
Metolachlor	<0.049		1.98	2.20		ug/L		111	70 - 130
Molinate	<0.098		1.98	2.01		ug/L		102	70 - 130
Naphthalene	<0.098		1.98	1.85		ug/L		94	70 - 130
Parathion	<0.098		1.98	2.03		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.98	1.87		ug/L		95	70 - 130
Phenanthrene	<0.039		1.98	1.89		ug/L		95	70 - 130
Propachlor	<0.049		1.98	2.03		ug/L		103	70 - 130
Pyrene	<0.049		1.98	2.12		ug/L		107	70 - 130
Simazine	<0.049		1.98	2.08		ug/L		105	70 - 130
Terbacil	<0.098		1.98	2.17		ug/L		110	70 - 130
Terbutylazine	<0.098		1.98	2.12		ug/L		107	70 - 130
Thiobencarb	<0.098		1.98	2.17		ug/L		110	70 - 130
trans-Nonachlor	<0.049		1.98	2.10		ug/L		106	70 - 130
Trifluralin	<0.098		1.98	1.95		ug/L		99	70 - 130
1-Methylnaphthalene	<0.098		1.98	2.03		ug/L		102	70 - 130
2-Methylnaphthalene	<0.098		1.98	1.91		ug/L		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-160191-Q-1-A DU

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
2,4'-DDD	<0.098		<0.099		ug/L		NC	20
2,4'-DDE	<0.098		<0.099		ug/L		NC	20
2,4'-DDT	<0.098		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
4,4'-DDD	<0.098		<0.099		ug/L		NC	20
4,4'-DDE	<0.098		<0.099		ug/L		NC	20
4,4'-DDT	<0.098		<0.099		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-160191-Q-1-A DU

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Acenaphthene	<0.098		<0.099		ug/L		NC	20
Acenaphthylene	<0.098		<0.099		ug/L		NC	20
Acetochlor	<0.098		<0.099		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.099		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Aldrin	<0.0098		<0.0099		ug/L		NC	20
Bromacil	<0.098		<0.099		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.099		ug/L		NC	20
Chloroneb	<0.098		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.099		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098		<0.0099		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.099		ug/L		NC	20
Endrin	<0.0098		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.098		<0.099		ug/L		NC	20
EPTC	<0.098		<0.099		ug/L		NC	20
Fluoranthene	<0.098		<0.099		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-BHC (Lindane)	<0.0098		<0.0099		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-160191-Q-1-A DU

Matrix: Water

Analysis Batch: 163097

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 162833

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Isophorone	<0.098		<0.099		ug/L		NC	20
Malathion	<0.098		<0.099		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.099		ug/L		NC	20
Naphthalene	<0.098		<0.099		ug/L		NC	20
Parathion	<0.098		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.099		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.099		ug/L		NC	20
Terbutylazine	<0.098		<0.099		ug/L		NC	20
Thiobencarb	<0.098		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.099		ug/L		NC	20
1-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	79		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-597175/1-A

Matrix: Water

Analysis Batch: 601736

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 597175

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/15/25 05:22	07/24/25 15:02	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		33 - 139	07/15/25 05:22	07/24/25 15:02	1
2-Fluorobiphenyl (Surr)	73		33 - 126	07/15/25 05:22	07/24/25 15:02	1
2-Fluorophenol (Surr)	42		12 - 120	07/15/25 05:22	07/24/25 15:02	1
Nitrobenzene-d5 (Surr)	80		36 - 120	07/15/25 05:22	07/24/25 15:02	1
Phenol-d6 (Surr)	23		10 - 120	07/15/25 05:22	07/24/25 15:02	1
p-Terphenyl-d14 (Surr)	69		47 - 131	07/15/25 05:22	07/24/25 15:02	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 570-597175/1-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 597175

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
2,4,5-Trichlorophenol	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2,4,6-Trichlorophenol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2,4-Dichlorophenol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2,4-Dinitrophenol	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2,6-Dichlorophenol	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2-Chloronaphthalene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
2-Chlorophenol	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
2-Methylphenol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2-Nitroaniline	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
2-Nitrophenol	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
3/4-Methylphenol	<2.0		2.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
3-Nitroaniline	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
4,6-Dinitro-2-methylphenol	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
4-Chloro-3-methylphenol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
4-Chloroaniline	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
4-Nitroaniline	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
4-Nitrophenol	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
Acenaphthene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Acenaphthylene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Aniline	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Anthracene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzidine	<5.0		5.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzoic acid	<10		10	ug/L		07/15/25 05:22	07/22/25 12:00	1
Benzyl alcohol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
bis (2-Chloroisopropyl) ether	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Chrysene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Dibenzofuran	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Fluoranthene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Fluorene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Hexachloroethane	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Naphthalene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Nitrobenzene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
N-Nitrosodiphenylamine	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 570-597175/1-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 597175

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
Phenanthrene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1
Phenol	<1.0		1.0	ug/L		07/15/25 05:22	07/22/25 12:00	1
Pyrene	<0.20		0.20	ug/L		07/15/25 05:22	07/22/25 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		28 - 127	07/15/25 05:22	07/22/25 12:00	1
2-Fluorobiphenyl (Surr)	76		31 - 120	07/15/25 05:22	07/22/25 12:00	1
2-Fluorophenol (Surr)	45		17 - 120	07/15/25 05:22	07/22/25 12:00	1
Nitrobenzene-d5 (Surr)	76		27 - 120	07/15/25 05:22	07/22/25 12:00	1
Phenol-d6 (Surr)	27		10 - 120	07/15/25 05:22	07/22/25 12:00	1
p-Terphenyl-d14 (Surr)	81		45 - 120	07/15/25 05:22	07/22/25 12:00	1

Lab Sample ID: LCS 570-597175/2-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 597175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.8		ug/L		79	47 - 120
2,4,5-Trichlorophenol	20.0	17.4		ug/L		87	57 - 120
2,4,6-Trichlorophenol	20.0	16.8		ug/L		84	52 - 129
2,4-Dichlorophenol	20.0	15.1		ug/L		76	53 - 122
2,4-Dinitrophenol	20.0	15.9		ug/L		80	1 - 173
2,6-Dichlorophenol	20.0	14.8		ug/L		74	50 - 120
2-Chloronaphthalene	20.0	16.8		ug/L		84	65 - 120
2-Chlorophenol	20.0	16.7		ug/L		83	36 - 120
2-Methylnaphthalene	20.0	15.2		ug/L		76	43 - 120
2-Methylphenol	20.0	15.9		ug/L		79	46 - 120
2-Nitroaniline	20.0	18.4		ug/L		92	51 - 125
2-Nitrophenol	20.0	14.2		ug/L		71	45 - 167
3/4-Methylphenol	40.0	28.1		ug/L		70	29 - 120
3-Nitroaniline	20.0	18.0		ug/L		90	62 - 129
4,6-Dinitro-2-methylphenol	20.0	16.3		ug/L		81	53 - 130
4-Bromophenyl phenyl ether	20.0	16.0		ug/L		80	65 - 120
4-Chloro-3-methylphenol	20.0	14.4		ug/L		72	41 - 128
4-Chloroaniline	20.0	15.2		ug/L		76	51 - 120
4-Chlorophenyl phenyl ether	20.0	16.8		ug/L		84	38 - 145
4-Nitroaniline	20.0	18.6		ug/L		93	64 - 129
4-Nitrophenol	20.0	7.75		ug/L		39	13 - 129
Acenaphthene	20.0	18.3		ug/L		91	60 - 132
Acenaphthylene	20.0	18.5		ug/L		93	54 - 126
Aniline	20.0	14.2		ug/L		71	52 - 121
Anthracene	20.0	18.1		ug/L		90	43 - 120
Benzidine	20.0	<0.94	*	ug/L		0.2	20 - 164
Benzo[a]anthracene	20.0	18.5		ug/L		93	42 - 133
Benzo[a]pyrene	20.0	17.8		ug/L		89	32 - 148
Benzo[b]fluoranthene	20.0	18.1		ug/L		90	42 - 140

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 570-597175/2-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 597175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	20.0	19.2		ug/L		96	1 - 195
Benzo[k]fluoranthene	20.0	18.1		ug/L		91	25 - 146
Benzoic acid	20.0	5.44	J	ug/L		27	20 - 120
Benzyl alcohol	20.0	13.8		ug/L		69	44 - 122
Bis(2-chloroethoxy)methane	20.0	14.7		ug/L		74	49 - 165
Bis(2-chloroethyl)ether	20.0	17.7		ug/L		88	43 - 126
bis (2-Chloroisopropyl) ether	20.0	17.5		ug/L		87	63 - 139
Chrysene	20.0	18.8		ug/L		94	44 - 140
Dibenz(a,h)anthracene	20.0	18.8		ug/L		94	1 - 200
Dibenzofuran	20.0	16.7		ug/L		84	48 - 120
Fluoranthene	20.0	18.7		ug/L		94	43 - 121
Fluorene	20.0	18.9		ug/L		94	70 - 120
Hexachloroethane	20.0	15.3		ug/L		77	55 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.8		ug/L		89	1 - 151
Naphthalene	20.0	15.3		ug/L		77	36 - 120
Nitrobenzene	20.0	14.3		ug/L		71	54 - 158
N-Nitrosodi-n-propylamine	20.0	18.2		ug/L		91	14 - 198
N-Nitrosodiphenylamine	20.0	21.4		ug/L		107	65 - 133
Pentachlorophenol	20.0	16.6		ug/L		83	38 - 152
Phenanthrene	20.0	18.6		ug/L		93	65 - 120
Phenol	20.0	7.68		ug/L		38	17 - 120
Pyrene	20.0	19.4		ug/L		97	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

Lab Sample ID: LCSD 570-597175/3-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 597175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.4		ug/L		82	47 - 120	3	20
2,4,5-Trichlorophenol	20.0	18.3		ug/L		92	57 - 120	5	20
2,4,6-Trichlorophenol	20.0	17.4		ug/L		87	52 - 129	3	35
2,4-Dichlorophenol	20.0	15.2		ug/L		76	53 - 122	0	30
2,4-Dinitrophenol	20.0	17.1		ug/L		85	1 - 173	7	79
2,6-Dichlorophenol	20.0	14.8		ug/L		74	50 - 120	0	20
2-Chloronaphthalene	20.0	17.8		ug/L		89	65 - 120	6	15
2-Chlorophenol	20.0	16.8		ug/L		84	36 - 120	1	37
2-Methylnaphthalene	20.0	15.9		ug/L		80	43 - 120	5	20
2-Methylphenol	20.0	15.7		ug/L		78	46 - 120	1	20
2-Nitroaniline	20.0	18.7		ug/L		94	51 - 125	2	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCSD 570-597175/3-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 597175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitrophenol	20.0	14.4		ug/L		72	45 - 167	1	33
3/4-Methylphenol	40.0	28.5		ug/L		71	29 - 120	1	20
3-Nitroaniline	20.0	18.7		ug/L		93	62 - 129	3	20
4,6-Dinitro-2-methylphenol	20.0	17.1		ug/L		86	53 - 130	5	122
4-Bromophenyl phenyl ether	20.0	16.5		ug/L		82	65 - 120	3	26
4-Chloro-3-methylphenol	20.0	14.3		ug/L		72	41 - 128	1	44
4-Chloroaniline	20.0	14.6		ug/L		73	51 - 120	4	20
4-Chlorophenyl phenyl ether	20.0	17.3		ug/L		87	38 - 145	3	36
4-Nitroaniline	20.0	19.3		ug/L		97	64 - 129	4	20
4-Nitrophenol	20.0	8.22		ug/L		41	13 - 129	6	79
Acenaphthene	20.0	19.0		ug/L		95	60 - 132	4	29
Acenaphthylene	20.0	19.2		ug/L		96	54 - 126	4	45
Aniline	20.0	12.1		ug/L		60	52 - 121	17	21
Anthracene	20.0	18.8		ug/L		94	43 - 120	4	40
Benzidine	20.0	<0.94	*-	ug/L		0.1	20 - 164	26	30
Benzo[a]anthracene	20.0	18.5		ug/L		93	42 - 133	0	32
Benzo[a]pyrene	20.0	18.2		ug/L		91	32 - 148	2	43
Benzo[b]fluoranthene	20.0	19.0		ug/L		95	42 - 140	5	43
Benzo[g,h,i]perylene	20.0	19.5		ug/L		98	1 - 195	1	61
Benzo[k]fluoranthene	20.0	18.8		ug/L		94	25 - 146	3	38
Benzoic acid	20.0	6.94	J	ug/L		35	20 - 120	24	30
Benzyl alcohol	20.0	13.7		ug/L		69	44 - 122	0	20
Bis(2-chloroethoxy)methane	20.0	14.9		ug/L		75	49 - 165	1	32
Bis(2-chloroethyl)ether	20.0	17.8		ug/L		89	43 - 126	1	65
bis (2-Chloroisopropyl) ether	20.0	17.4		ug/L		87	63 - 139	0	46
Chrysene	20.0	18.8		ug/L		94	44 - 140	0	53
Dibenz(a,h)anthracene	20.0	19.3		ug/L		96	1 - 200	3	75
Dibenzofuran	20.0	17.4		ug/L		87	48 - 120	4	20
Fluoranthene	20.0	19.5		ug/L		98	43 - 121	4	40
Fluorene	20.0	19.5		ug/L		97	70 - 120	3	23
Hexachloroethane	20.0	15.9		ug/L		80	55 - 120	4	32
Indeno[1,2,3-cd]pyrene	20.0	18.0		ug/L		90	1 - 151	1	60
Naphthalene	20.0	15.8		ug/L		79	36 - 120	3	39
Nitrobenzene	20.0	14.3		ug/L		72	54 - 158	0	37
N-Nitrosodi-n-propylamine	20.0	18.4		ug/L		92	14 - 198	1	52
N-Nitrosodiphenylamine	20.0	22.4		ug/L		112	65 - 133	4	20
Pentachlorophenol	20.0	17.5		ug/L		87	38 - 152	5	52
Phenanthrene	20.0	19.4		ug/L		97	65 - 120	4	24
Phenol	20.0	7.90		ug/L		40	17 - 120	3	39
Pyrene	20.0	19.8		ug/L		99	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	37		10 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCSD 570-597175/3-A

Matrix: Water

Analysis Batch: 600411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 597175

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
p-Terphenyl-d14 (Surr)	87		45 - 120

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

Lab Sample ID: MB 570-599688/10

Matrix: Water

Analysis Batch: 599688

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	Result	Qualifier					07/20/25 14:56	1
	<10		10	ug/L				

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier			07/20/25 14:56	1
	79		38 - 134			

Lab Sample ID: LCS 570-599688/1008

Matrix: Water

Analysis Batch: 599688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier			95	Limits
	400	379		ug/L			78 - 120

Surrogate	LCS	LCS	Limits
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	
	99		38 - 134

Lab Sample ID: LCSD 570-599688/9

Matrix: Water

Analysis Batch: 599688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier			97	Limits	3	Limit
	400	389		ug/L			78 - 120		10

Surrogate	LCSD	LCSD	Limits
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	
	89		38 - 134

Lab Sample ID: MRL 570-599688/11

Matrix: Water

Analysis Batch: 599688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier			85	Limits
	10.0	8.45	J	ug/L			50 - 150

Surrogate	MRL	MRL	Limits
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	
	82		38 - 134

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-159486-C-1 MS

Matrix: Water

Analysis Batch: 599688

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	379		ug/L		95	68 - 122		
Surrogate	%Recovery	MS Qualifier	MS Limits								
4-Bromofluorobenzene (Surr)	98		38 - 134								

Lab Sample ID: 380-159486-C-1 MSD

Matrix: Water

Analysis Batch: 599688

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	380		ug/L		95	68 - 122	0	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

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

Lab Sample ID: MBL 380-162921/4-A

Matrix: Water

Analysis Batch: 163134

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162921

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.0040		0.020	ug/L		07/15/25 16:49	07/15/25 23:31	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.010	ug/L		07/15/25 16:49	07/15/25 23:31	1
1,2-Dibromoethane	<0.0040		0.010	ug/L		07/15/25 16:49	07/15/25 23:31	1
Surrogate	%Recovery	MBL Qualifier	MBL Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	97		60 - 140			07/15/25 16:49	07/15/25 23:31	1

Lab Sample ID: LCS 380-162921/29-A

Matrix: Water

Analysis Batch: 163134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane	0.200	0.216		ug/L		108	70 - 130		
1,2-Dibromo-3-Chloropropane	0.200	0.205		ug/L		103	70 - 130		
1,2-Dibromoethane	0.200	0.216		ug/L		108	70 - 130		
Surrogate	%Recovery	LCS Qualifier	LCS Limits						
1,2-Dibromopropane (Surr)	91		60 - 140						

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-162921/2-A
Matrix: Water
Analysis Batch: 163134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162921

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane			0.0200	0.0199	J	ug/L		99	60 - 140
Surrogate	MRL %Recovery	MRL Qualifier	Limits						
1,2-Dibromopropane (Surr)	103		60 - 140						

Lab Sample ID: MRL 380-162921/3-A
Matrix: Water
Analysis Batch: 163134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162921

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane			0.0500	0.0510		ug/L		102	60 - 140
1,2-Dibromo-3-Chloropropane			0.0100	0.00934	J	ug/L		93	60 - 140
1,2-Dibromoethane			0.0100	0.00930	J	ug/L		93	60 - 140
Surrogate	MRL %Recovery	MRL Qualifier	Limits						
1,2-Dibromopropane (Surr)	96		60 - 140						

Lab Sample ID: 380-160405-DF-1-A MS
Matrix: Water
Analysis Batch: 163134

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 162921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	<0.020		1.25	1.19		ug/L		96	65 - 135
1,2-Dibromo-3-Chloropropane	<0.010		0.249	0.232		ug/L		93	65 - 135
1,2-Dibromoethane	<0.010		0.249	0.246		ug/L		99	65 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dibromopropane (Surr)	92		60 - 140						

Lab Sample ID: 380-160406-DE-1-A DU
Matrix: Water
Analysis Batch: 163134

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 162921

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	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					

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 380-163108/12-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 163108

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.51		0.51	ug/L		07/16/25 10:30	07/16/25 16:07	1
Chlordane (n.o.s.)	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1016	<0.071		0.071	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1221	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1232	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1242	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1248	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1254	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1
PCB-1260	<0.071		0.071	ug/L		07/16/25 10:30	07/16/25 16:07	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		07/16/25 10:30	07/16/25 16:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		70 - 130	07/16/25 10:30	07/16/25 16:07	1

Lab Sample ID: LCS 380-163108/37-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	2.50	2.55		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	99		70 - 130

Lab Sample ID: LCS 380-163108/38-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	0.500	0.527		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	94		70 - 130

Lab Sample ID: LCS 380-163108/40-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1242	0.500	0.470		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	91		70 - 130

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-163108/8-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1242			0.506	0.502		ug/L		99	70 - 130	
Surrogate	%Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene	101		70 - 130							

Lab Sample ID: LCSD 380-163108/39-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 163108

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chlordane (n.o.s.)			0.500	0.496		ug/L		99	70 - 130	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits								
Tetrachloro-m-xylene	93		70 - 130								

Lab Sample ID: MRL 380-163108/10-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Chlordane (n.o.s.)			0.0997	0.104		ug/L		104	50 - 150	
Surrogate	%Recovery	MRL Qualifier	Limits							
Tetrachloro-m-xylene	98		70 - 130							

Lab Sample ID: MRL 380-163108/11-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1242			0.100	0.104		ug/L		104	50 - 150	
Surrogate	%Recovery	MRL Qualifier	Limits							
Tetrachloro-m-xylene	97		70 - 130							

Lab Sample ID: MRL 380-163108/9-A

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163108

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Toxaphene			0.507	0.454	J	ug/L		90	50 - 150	
Surrogate	%Recovery	MRL Qualifier	Limits							
Tetrachloro-m-xylene	97		70 - 130							

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-160125-E-1-A MS

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	<0.50		2.51	2.52		ug/L		100	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	96		70 - 130						

Lab Sample ID: 380-160125-F-1-A MS

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	<0.10		0.500	0.489		ug/L		98	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	97		70 - 130						

Lab Sample ID: 380-160465-F-1-A MS

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	<0.50		2.50	2.51		ug/L		100	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	93		70 - 130						

Lab Sample ID: 380-160465-G-1-A MS

Matrix: Water

Analysis Batch: 163429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 163108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1242	<0.10		0.504	0.482		ug/L		96	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	97		70 - 130						

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

Lab Sample ID: MB 570-596824/1-A

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 596824

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/14/25 10:40	07/19/25 01:21	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/14/25 10:40	07/19/25 01:21	1
C8-C18	<25		25	ug/L		07/14/25 10:40	07/19/25 01:21	1

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MB 570-596824/1-A

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 596824

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		60 - 130	07/14/25 10:40	07/19/25 01:21	1

Lab Sample ID: LCS 570-596824/2-A

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 596824

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			1600	1520		ug/L		95	56 - 127		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	105		60 - 130								

Lab Sample ID: LCSD 570-596824/3-A

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 596824

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1470		ug/L		92	56 - 127	4	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	101		60 - 130								

Lab Sample ID: MRL 570-596824/4-A

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 596824

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			0.0200	0.0225	J	mg/L		113	50 - 150		
Surrogate	MRL	MRL									
n-Octacosane (Surr)	%Recovery	Qualifier	Limits								
	94		60 - 130								

Lab Sample ID: 380-159486-B-1-B MS

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 596824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	48		1660	1740		ug/L		102	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-159486-B-1-C MSD

Matrix: Water

Analysis Batch: 599363

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 596824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	48		1670	1700		ug/L		99	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	109		60 - 130								

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

Lab Sample ID: MB 570-596929/23

Matrix: Water

Analysis Batch: 596929

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			07/15/25 09:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	86		54 - 120				07/15/25 09:38	1

Lab Sample ID: LCS 570-596929/24

Matrix: Water

Analysis Batch: 596929

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	2.08		mg/L		104	78 - 131
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Hexafluoro-2-propanol (Surr)	80		54 - 120				

Lab Sample ID: LCSD 570-596929/22

Matrix: Water

Analysis Batch: 596929

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	1.69		mg/L		84	78 - 131	21	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Hexafluoro-2-propanol (Surr)	89		54 - 120						

Lab Sample ID: MRL 570-596929/26

Matrix: Water

Analysis Batch: 596929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	0.100	0.0946	J	mg/L		95	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
Hexafluoro-2-propanol (Surr)	118		54 - 120				

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-158427-AB-1 MS

Matrix: Water

Analysis Batch: 596929

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		
Ethanol	<0.10		2.00	2.07		mg/L		104	20 - 173		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
Hexafluoro-2-propanol (Surr)	87		54 - 120								

Lab Sample ID: 380-158427-AB-1 MSD

Matrix: Water

Analysis Batch: 596929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Date: 05/02/25											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethanol	<0.10		2.00	2.01		mg/L		100	20 - 173	3	21
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
Hexafluoro-2-propanol (Surr)	80		54 - 120								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-162429/41

Matrix: Water

Analysis Batch: 162429

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			07/11/25 19:55	1
Sulfate	<0.25		0.25	mg/L			07/11/25 19:55	1

Lab Sample ID: LCS 380-162429/44

Matrix: Water

Analysis Batch: 162429

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	25.8		mg/L		103	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: LCSD 380-162429/45

Matrix: Water

Analysis Batch: 162429

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	25.9		mg/L		103	90 - 110	0	20
Sulfate	50.0	50.6		mg/L		101	90 - 110	0	20

Lab Sample ID: MRL 380-162429/42

Matrix: Water

Analysis Batch: 162429

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	0.131	J	mg/L		105	50 - 150
Sulfate	0.250	0.250		mg/L		100	50 - 150

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-162429/43

Matrix: Water

Analysis Batch: 162429

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	0.484	J	mg/L		97	50 - 150
Sulfate	1.00	1.03		mg/L		103	50 - 150

Lab Sample ID: 380-160142-AT-1 MS

Matrix: Water

Analysis Batch: 162429

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	52	E ^2	12.5	61.7	E 4	mg/L		81	80 - 120
Sulfate	12		25.0	37.9		mg/L		103	80 - 120

Lab Sample ID: 380-160142-AT-1 MSD

Matrix: Water

Analysis Batch: 162429

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	52	E ^2	12.5	61.7	E 4	mg/L		81	80 - 120	0	20
Sulfate	12		25.0	38.0		mg/L		103	80 - 120	0	20

Lab Sample ID: MB 380-162460/4

Matrix: Water

Analysis Batch: 162460

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			07/12/25 08:54	1
Sulfate	<0.25		0.25	mg/L			07/12/25 08:54	1

Lab Sample ID: LCS 380-162460/7

Matrix: Water

Analysis Batch: 162460

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	25.9		mg/L		104	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: LCSD 380-162460/8

Matrix: Water

Analysis Batch: 162460

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	25.9		mg/L		103	90 - 110	0	20
Sulfate	50.0	50.5		mg/L		101	90 - 110	0	20

Lab Sample ID: MRL 380-162460/5

Matrix: Water

Analysis Batch: 162460

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	0.124	J	mg/L		99	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 380-162460/5

Matrix: Water

Analysis Batch: 162460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.250	0.246	J	mg/L		98	50 - 150

Lab Sample ID: MRL 380-162460/6

Matrix: Water

Analysis Batch: 162460

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	0.470	J	mg/L		94	50 - 150
Sulfate	1.00	1.03		mg/L		103	50 - 150

Lab Sample ID: 380-160142-AT-1 MS

Matrix: Water

Analysis Batch: 162460

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	54	^2	25.0	76.8		mg/L		93	80 - 120
Sulfate	12		50.0	62.5		mg/L		100	80 - 120

Lab Sample ID: 380-160142-AT-1 MSD

Matrix: Water

Analysis Batch: 162460

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	54	^2	25.0	76.6		mg/L		92	80 - 120	0	20
Sulfate	12		50.0	62.0		mg/L		99	80 - 120	1	20

Lab Sample ID: MB 380-162774/14

Matrix: Water

Analysis Batch: 162774

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			07/14/25 17:11	1

Lab Sample ID: LCS 380-162774/15

Matrix: Water

Analysis Batch: 162774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	95.5		ug/L		95	90 - 110

Lab Sample ID: LCSD 380-162774/16

Matrix: Water

Analysis Batch: 162774

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	96.7		ug/L		97	90 - 110	1	10

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 380-162774/13

Matrix: Water

Analysis Batch: 162774

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	5.72		ug/L		114	75 - 125

Lab Sample ID: 380-160142-W-1 MS

Matrix: Water

Analysis Batch: 162774

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	190	F1	50.0	214	F1	ug/L		46	80 - 120

Lab Sample ID: 380-160142-W-1 MSD

Matrix: Water

Analysis Batch: 162774

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	190	F1	50.0	214	F1	ug/L		45	80 - 120	0	20

Lab Sample ID: MB 380-162972/6

Matrix: Water

Analysis Batch: 162972

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			07/15/25 14:56	1

Lab Sample ID: LCS 380-162972/7

Matrix: Water

Analysis Batch: 162972

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	96.7		ug/L		97	90 - 110

Lab Sample ID: LCSD 380-162972/8

Matrix: Water

Analysis Batch: 162972

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	97.2		ug/L		97	90 - 110	1	10

Lab Sample ID: MRL 380-162972/5

Matrix: Water

Analysis Batch: 162972

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	4.66	J	ug/L		93	75 - 125

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 380-160027-AF-1 MS

Matrix: Water

Analysis Batch: 162972

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	49.8		ug/L		100	80 - 120

Lab Sample ID: 380-160027-AF-1 MSD

Matrix: Water

Analysis Batch: 162972

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	49.2		ug/L		98	80 - 120	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MBL 380-162737/125

Matrix: Water

Analysis Batch: 162737

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.031		0.10	mg/L			07/14/25 13:28	1
Magnesium	<0.0099		0.10	mg/L			07/14/25 13:28	1
Potassium	<0.044		0.10	mg/L			07/14/25 13:28	1
Sodium	<0.019		0.10	mg/L			07/14/25 13:28	1

Lab Sample ID: LCS 380-162737/127

Matrix: Water

Analysis Batch: 162737

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	49.2		mg/L		98	85 - 115
Magnesium	20.0	20.0		mg/L		100	85 - 115
Potassium	20.0	20.4		mg/L		102	85 - 115
Sodium	50.0	50.3		mg/L		101	85 - 115

Lab Sample ID: LCSD 380-162737/128

Matrix: Water

Analysis Batch: 162737

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	49.1		mg/L		98	85 - 115	0	20
Magnesium	20.0	20.0		mg/L		100	85 - 115	0	20
Potassium	20.0	20.3		mg/L		101	85 - 115	0	20
Sodium	50.0	50.1		mg/L		100	85 - 115	0	20

Lab Sample ID: LLCS 380-162737/126

Matrix: Water

Analysis Batch: 162737

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	0.0970	J	mg/L		97	50 - 150
Magnesium	0.100	0.0996	J	mg/L		100	50 - 150
Potassium	0.100	0.119		mg/L		119	50 - 150

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LLCS 380-162737/126

Matrix: Water

Analysis Batch: 162737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.100	0.101		mg/L		101	50 - 150

Lab Sample ID: 380-160180-A-1 MS

Matrix: Water

Analysis Batch: 162737

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	18		50.0	64.4		mg/L		93	70 - 130
Magnesium	9.7		20.0	28.8		mg/L		96	70 - 130
Potassium	1.5		20.0	21.2		mg/L		99	70 - 130
Sodium	6.7		50.0	55.1		mg/L		97	70 - 130

Lab Sample ID: 380-160180-A-1 MSD

Matrix: Water

Analysis Batch: 162737

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	18		50.0	63.6		mg/L		92	70 - 130	1	20
Magnesium	9.7		20.0	28.4		mg/L		93	70 - 130	1	20
Potassium	1.5		20.0	20.8		mg/L		97	70 - 130	2	20
Sodium	6.7		50.0	54.1		mg/L		95	70 - 130	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MBL 380-162750/81

Matrix: Water

Analysis Batch: 162750

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			07/14/25 13:02	1
Arsenic	<0.25		1.0	ug/L			07/14/25 13:02	1
Beryllium	<0.12		0.30	ug/L			07/14/25 13:02	1
Cadmium	<0.081		0.50	ug/L			07/14/25 13:02	1
Chromium	0.450	J B	0.90	ug/L			07/14/25 13:02	1
Copper	<0.28		1.0	ug/L			07/14/25 13:02	1
Lead	<0.084		0.50	ug/L			07/14/25 13:02	1
Nickel	<0.38		1.0	ug/L			07/14/25 13:02	1
Selenium	<0.25		2.0	ug/L			07/14/25 13:02	1
Silver	<0.30		0.50	ug/L			07/14/25 13:02	1
Thallium	<0.10		0.30	ug/L			07/14/25 13:02	1
Zinc	<1.3		5.0	ug/L			07/14/25 13:02	1

Lab Sample ID: LCS 380-162750/83

Matrix: Water

Analysis Batch: 162750

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	50.8		ug/L		102	85 - 115
Arsenic	50.0	51.1		ug/L		102	85 - 115

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCS 380-162750/83

Matrix: Water

Analysis Batch: 162750

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	51.1		ug/L		102	85 - 115
Cadmium	50.0	52.5		ug/L		105	85 - 115
Chromium	50.0	51.1		ug/L		102	85 - 115
Copper	50.0	49.5		ug/L		99	85 - 115
Lead	50.0	52.5		ug/L		105	85 - 115
Nickel	50.0	50.0		ug/L		100	85 - 115
Selenium	50.0	51.2		ug/L		102	85 - 115
Silver	50.0	52.7		ug/L		105	85 - 115
Thallium	50.0	53.0		ug/L		106	85 - 115
Zinc	50.0	49.4		ug/L		99	85 - 115

Lab Sample ID: LCSD 380-162750/84

Matrix: Water

Analysis Batch: 162750

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	51.6		ug/L		103	85 - 115	2	20
Arsenic	50.0	51.1		ug/L		102	85 - 115	0	20
Beryllium	50.0	51.3		ug/L		103	85 - 115	0	20
Cadmium	50.0	52.7		ug/L		105	85 - 115	0	20
Chromium	50.0	50.7		ug/L		101	85 - 115	1	20
Copper	50.0	49.2		ug/L		98	85 - 115	1	20
Lead	50.0	52.0		ug/L		104	85 - 115	1	20
Nickel	50.0	50.2		ug/L		100	85 - 115	0	20
Selenium	50.0	51.3		ug/L		103	85 - 115	0	20
Silver	50.0	52.8		ug/L		106	85 - 115	0	20
Thallium	50.0	52.7		ug/L		105	85 - 115	1	20
Zinc	50.0	49.8		ug/L		100	85 - 115	1	20

Lab Sample ID: LLCS 380-162750/82

Matrix: Water

Analysis Batch: 162750

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	1.03		ug/L		103	50 - 150
Arsenic	1.00	0.991	J	ug/L		99	50 - 150
Beryllium	0.300	0.303		ug/L		101	50 - 150
Cadmium	0.500	0.393	J	ug/L		79	50 - 150
Chromium	0.900	1.31		ug/L		145	50 - 150
Copper	1.00	1.01		ug/L		101	50 - 150
Lead	0.500	0.514		ug/L		103	50 - 150
Nickel	1.00	0.912	J	ug/L		91	50 - 150
Selenium	2.00	2.04		ug/L		102	50 - 150
Silver	0.500	0.510		ug/L		102	50 - 150
Thallium	0.300	0.310		ug/L		103	50 - 150
Zinc	5.00	4.97	J	ug/L		99	50 - 150

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: 380-160194-R-1 MS

Matrix: Water

Analysis Batch: 162750

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	57.4		ug/L		115	70 - 130
Arsenic	<1.0		50.0	58.5		ug/L		116	70 - 130
Beryllium	<0.30		50.0	55.1		ug/L		110	70 - 130
Cadmium	<0.50		50.0	56.8		ug/L		114	70 - 130
Chromium	<0.90	B	50.0	53.6		ug/L		106	70 - 130
Copper	31		50.0	82.4		ug/L		104	70 - 130
Lead	<0.50		50.0	53.7		ug/L		107	70 - 130
Nickel	<1.0		50.0	52.3		ug/L		103	70 - 130
Selenium	<2.0		50.0	63.0		ug/L		126	70 - 130
Silver	<0.50		50.0	45.1		ug/L		90	70 - 130
Thallium	<0.30		50.0	54.8		ug/L		110	70 - 130
Zinc	<5.0		50.0	56.2		ug/L		110	70 - 130

Lab Sample ID: 380-160194-R-1 MSD

Matrix: Water

Analysis Batch: 162750

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	55.5		ug/L		111	70 - 130	3	20
Arsenic	<1.0		50.0	56.5		ug/L		112	70 - 130	4	20
Beryllium	<0.30		50.0	52.7		ug/L		105	70 - 130	4	20
Cadmium	<0.50		50.0	53.6		ug/L		107	70 - 130	6	20
Chromium	<0.90	B	50.0	51.9		ug/L		102	70 - 130	3	20
Copper	31		50.0	80.3		ug/L		99	70 - 130	3	20
Lead	<0.50		50.0	51.6		ug/L		102	70 - 130	4	20
Nickel	<1.0		50.0	50.3		ug/L		99	70 - 130	4	20
Selenium	<2.0		50.0	60.8		ug/L		122	70 - 130	3	20
Silver	<0.50		50.0	46.4		ug/L		93	70 - 130	3	20
Thallium	<0.30		50.0	53.0		ug/L		106	70 - 130	3	20
Zinc	<5.0		50.0	54.6		ug/L		106	70 - 130	3	20

Method: 200.8 - Mercury (ICP/MS)

Lab Sample ID: MBL 380-162751/81

Matrix: Water

Analysis Batch: 162751

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			07/14/25 13:02	1

Lab Sample ID: LCS 380-162751/83

Matrix: Water

Analysis Batch: 162751

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	1.03		ug/L		103	85 - 115

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: LCSD 380-162751/84
Matrix: Water
Analysis Batch: 162751

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	1.03		ug/L		103	85 - 115	0	20

Lab Sample ID: LLCS 380-162751/82
Matrix: Water
Analysis Batch: 162751

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	0.205		ug/L		103	50 - 150		

Lab Sample ID: 380-160194-R-1 MS
Matrix: Water
Analysis Batch: 162751

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	1.08		ug/L		108	70 - 130		

Lab Sample ID: 380-160194-R-1 MSD
Matrix: Water
Analysis Batch: 162751

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	0.962		ug/L		96	70 - 130	11	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 380-162869/1
Matrix: Water
Analysis Batch: 162869

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			07/14/25 17:33	1
Bicarbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			07/14/25 17:33	1
Carbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			07/14/25 17:33	1

Lab Sample ID: LCS 380-162869/4
Matrix: Water
Analysis Batch: 162869

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity	100	94.0		mg/L		94	90 - 110		

Lab Sample ID: LCSD 380-162869/19
Matrix: Water
Analysis Batch: 162869

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	92.6		mg/L		93	90 - 110	2	20

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QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LLCS 380-162869/5

Matrix: Water

Analysis Batch: 162869

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	18.2		mg/L		91	90 - 110

Lab Sample ID: MRL 380-162869/3

Matrix: Water

Analysis Batch: 162869

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	3.51	J	mg/L		88	50 - 150

Lab Sample ID: 380-159778-E-1 MS

Matrix: Water

Analysis Batch: 162869

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	120	F1	100	154	F1	mg/L		33	80 - 120

Lab Sample ID: 380-159778-E-1 MSD

Matrix: Water

Analysis Batch: 162869

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	120	F1	100	153	F1	mg/L		32	80 - 120	1	20

Lab Sample ID: 380-159778-E-1 DU

Matrix: Water

Analysis Batch: 162869

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	120	F1	120		mg/L		0.2	20
Bicarbonate Alkalinity as CaCO3	120		117		mg/L		0.4	20
Carbonate Alkalinity as CaCO3	4.1		<4.0		mg/L		NC	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 380-162938/3

Matrix: Water

Analysis Batch: 162938

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			07/14/25 17:33	1

Lab Sample ID: LCS 380-162938/5

Matrix: Water

Analysis Batch: 162938

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCSD 380-162938/17
Matrix: Water
Analysis Batch: 162938

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	997		umhos/cm		100	90 - 110	1	10

Lab Sample ID: MRL 380-162938/4
Matrix: Water
Analysis Batch: 162938

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
Specific Conductance	2.00	1.90	J	umhos/cm		95	50 - 150		

Lab Sample ID: 380-159778-E-1 DU
Matrix: Water
Analysis Batch: 162938

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	1000		1040		umhos/cm		0.2	20

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

Lab Sample ID: MB 380-162690/1
Matrix: Water
Analysis Batch: 162690

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			07/14/25 12:53	1

Lab Sample ID: HLCS 380-162690/5
Matrix: Water
Analysis Batch: 162690

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	700	692		mg/L		99	80 - 114		

Lab Sample ID: LCS 380-162690/4
Matrix: Water
Analysis Batch: 162690

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
Total Dissolved Solids	175	176		mg/L		101	80 - 114		

Lab Sample ID: MRL 380-162690/2
Matrix: Water
Analysis Batch: 162690

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
Total Dissolved Solids	10.0	8.00	J	mg/L		80	50 - 150		

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-162690/3
Matrix: Water
Analysis Batch: 162690

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: 380-160100-G-2 DU
Matrix: Water
Analysis Batch: 162690

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	220		216		mg/L		0.9	10

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 380-162868/74
Matrix: Water
Analysis Batch: 162868

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			07/14/25 23:14	1

Lab Sample ID: LCS 380-162868/76
Matrix: Water
Analysis Batch: 162868

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	1.02		mg/L		102	90 - 110

Lab Sample ID: LCSD 380-162868/77
Matrix: Water
Analysis Batch: 162868

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	1.02		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 380-162868/75
Matrix: Water
Analysis Batch: 162868

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	0.0497	J	mg/L		99	50 - 150

Lab Sample ID: 380-159607-C-2 MS
Matrix: Water
Analysis Batch: 162868

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	1.1		1.00	2.15		mg/L		104	80 - 120

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 380-159607-C-2 MSD

Matrix: Water

Analysis Batch: 162868

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	1.1		1.00	2.14		mg/L		103	80 - 120	0	20

Lab Sample ID: MB 380-164040/6

Matrix: Water

Analysis Batch: 164040

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			07/18/25 17:53	1

Lab Sample ID: LCS 380-164040/8

Matrix: Water

Analysis Batch: 164040

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 380-164040/9

Matrix: Water

Analysis Batch: 164040

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	1	10

Lab Sample ID: MRL 380-164040/7

Matrix: Water

Analysis Batch: 164040

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	0.0525		mg/L		105	50 - 150

Lab Sample ID: 380-160853-C-4 MS

Matrix: Water

Analysis Batch: 164040

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	1.3		1.00	2.33		mg/L		99	80 - 120

Lab Sample ID: 380-160853-C-4 MSD

Matrix: Water

Analysis Batch: 164040

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	1.3		1.00	2.35		mg/L		101	80 - 120	1	20

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 380-162939/5
Matrix: Water
Analysis Batch: 162939

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			07/14/25 17:33	1

Lab Sample ID: LCS 380-162939/6
Matrix: Water
Analysis Batch: 162939

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

Lab Sample ID: LCSD 380-162939/18
Matrix: Water
Analysis Batch: 162939

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: 380-159778-E-1 DU
Matrix: Water
Analysis Batch: 162939

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.4		8.4		SU		0.2	2

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 380-162964/3
Matrix: Water
Analysis Batch: 162964

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			07/15/25 17:13	1

Lab Sample ID: LCS 380-162964/5
Matrix: Water
Analysis Batch: 162964

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	0.272		mg/L		109	90 - 110

Lab Sample ID: LCSD 380-162964/6
Matrix: Water
Analysis Batch: 162964

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	0.247		mg/L		99	90 - 110	10	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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

Lab Sample ID: MRL 380-162964/4

Matrix: Water

Analysis Batch: 162964

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	0.0578		mg/L		116	50 - 150		

Lab Sample ID: 380-159445-J-1 MS

Matrix: Water

Analysis Batch: 162964

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		
Sulfide	<0.050		0.250	0.255		mg/L		102	80 - 120		

Lab Sample ID: 380-159445-J-1 MSD

Matrix: Water

Analysis Batch: 162964

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
Sulfide	<0.050		0.250	0.244		mg/L		98	80 - 120	5	20

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

GC/MS VOA

Analysis Batch: 164064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	524.2	
MB 380-164064/15	Method Blank	Total/NA	Water	524.2	
LCS 380-164064/11	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-164064/12	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-164064/13	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-164064/14	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 164070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-164070/13	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-164070/14	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 164128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	524.2	
MB 380-164128/5	Method Blank	Total/NA	Water	524.2	
LCS 380-164128/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-164128/4	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 164471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	524.2	
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 162833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	525.2	
MB 380-162833/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-162833/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-162833/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-160162-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-160191-Q-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 163097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	525.2	162833
MB 380-162833/21-A	Method Blank	Total/NA	Water	525.2	162833
LCS 380-162833/23-A	Lab Control Sample	Total/NA	Water	525.2	162833
MRL 380-162833/22-A	Lab Control Sample	Total/NA	Water	525.2	162833
380-160162-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	162833
380-160191-Q-1-A DU	Duplicate	Total/NA	Water	525.2	162833

Prep Batch: 597175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	625.1	
MB 570-597175/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-597175/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-597175/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

GC/MS Semi VOA

Analysis Batch: 600411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-597175/1-A	Method Blank	Total/NA	Water	625.1 SIM	597175
LCS 570-597175/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	597175
LCSD 570-597175/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	597175

Analysis Batch: 601009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	625.1 SIM	597175

Analysis Batch: 601736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	625.1	597175
MB 570-597175/1-A	Method Blank	Total/NA	Water	625.1	597175

GC VOA

Analysis Batch: 599688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	8015B GRO LL	
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	8015B GRO LL	
MB 570-599688/10	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-599688/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-599688/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-599688/11	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-159486-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-159486-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 162921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	504.1	
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	504.1	
MBL 380-162921/4-A	Method Blank	Total/NA	Water	504.1	
LCS 380-162921/29-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-162921/2-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-162921/3-A	Lab Control Sample	Total/NA	Water	504.1	
380-160405-DF-1-A MS	Matrix Spike	Total/NA	Water	504.1	
380-160406-DE-1-A DU	Duplicate	Total/NA	Water	504.1	

Prep Batch: 163108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	505	
MB 380-163108/12-A	Method Blank	Total/NA	Water	505	
LCS 380-163108/37-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-163108/38-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-163108/40-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-163108/8-A	Lab Control Sample	Total/NA	Water	505	
LCSD 380-163108/39-A	Lab Control Sample Dup	Total/NA	Water	505	
MRL 380-163108/10-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-163108/11-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-163108/9-A	Lab Control Sample	Total/NA	Water	505	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

GC Semi VOA (Continued)

Prep Batch: 163108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160125-E-1-A MS	Matrix Spike	Total/NA	Water	505	
380-160125-F-1-A MS	Matrix Spike	Total/NA	Water	505	
380-160465-F-1-A MS	Matrix Spike	Total/NA	Water	505	
380-160465-G-1-A MS	Matrix Spike	Total/NA	Water	505	

Analysis Batch: 163134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	504.1	162921
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	504.1	162921
MBL 380-162921/4-A	Method Blank	Total/NA	Water	504.1	162921
LCS 380-162921/29-A	Lab Control Sample	Total/NA	Water	504.1	162921
MRL 380-162921/2-A	Lab Control Sample	Total/NA	Water	504.1	162921
MRL 380-162921/3-A	Lab Control Sample	Total/NA	Water	504.1	162921
380-160405-DF-1-A MS	Matrix Spike	Total/NA	Water	504.1	162921
380-160406-DE-1-A DU	Duplicate	Total/NA	Water	504.1	162921

Analysis Batch: 163429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	505	163108
MB 380-163108/12-A	Method Blank	Total/NA	Water	505	163108
LCS 380-163108/37-A	Lab Control Sample	Total/NA	Water	505	163108
LCS 380-163108/38-A	Lab Control Sample	Total/NA	Water	505	163108
LCS 380-163108/40-A	Lab Control Sample	Total/NA	Water	505	163108
LCS 380-163108/8-A	Lab Control Sample	Total/NA	Water	505	163108
LCSD 380-163108/39-A	Lab Control Sample Dup	Total/NA	Water	505	163108
MRL 380-163108/10-A	Lab Control Sample	Total/NA	Water	505	163108
MRL 380-163108/11-A	Lab Control Sample	Total/NA	Water	505	163108
MRL 380-163108/9-A	Lab Control Sample	Total/NA	Water	505	163108
380-160125-E-1-A MS	Matrix Spike	Total/NA	Water	505	163108
380-160125-F-1-A MS	Matrix Spike	Total/NA	Water	505	163108
380-160465-F-1-A MS	Matrix Spike	Total/NA	Water	505	163108
380-160465-G-1-A MS	Matrix Spike	Total/NA	Water	505	163108

Prep Batch: 596824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	3510C	
MB 570-596824/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-596824/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-596824/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-596824/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-159486-B-1-B MS	Matrix Spike	Total/NA	Water	3510C	
380-159486-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 596929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	8015B	
MB 570-596929/23	Method Blank	Total/NA	Water	8015B	
LCS 570-596929/24	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-596929/22	Lab Control Sample Dup	Total/NA	Water	8015B	
MRL 570-596929/26	Lab Control Sample	Total/NA	Water	8015B	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

GC Semi VOA (Continued)

Analysis Batch: 596929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-158427-AB-1 MS	Matrix Spike	Total/NA	Water	8015B	
380-158427-AB-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

Analysis Batch: 599363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	8015B	596824
MB 570-596824/1-A	Method Blank	Total/NA	Water	8015B	596824
LCS 570-596824/2-A	Lab Control Sample	Total/NA	Water	8015B	596824
LCSD 570-596824/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	596824
MRL 570-596824/4-A	Lab Control Sample	Total/NA	Water	8015B	596824
380-159486-B-1-B MS	Matrix Spike	Total/NA	Water	8015B	596824
380-159486-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	596824

HPLC/IC

Analysis Batch: 162429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	300.0	
380-160197-2	MOANALUA WELLS (331-223-TP202)	Total/NA	Water	300.0	
380-160197-3	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	300.0	
MB 380-162429/41	Method Blank	Total/NA	Water	300.0	
LCS 380-162429/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-162429/45	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-162429/42	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-162429/43	Lab Control Sample	Total/NA	Water	300.0	
380-160142-AT-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-160142-AT-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 162460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	300.0	
MB 380-162460/4	Method Blank	Total/NA	Water	300.0	
LCS 380-162460/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-162460/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-162460/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-162460/6	Lab Control Sample	Total/NA	Water	300.0	
380-160142-AT-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-160142-AT-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 162774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	300.0	
380-160197-2	MOANALUA WELLS (331-223-TP202)	Total/NA	Water	300.0	
MB 380-162774/14	Method Blank	Total/NA	Water	300.0	
LCS 380-162774/15	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-162774/16	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-162774/13	Lab Control Sample	Total/NA	Water	300.0	
380-160142-W-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-160142-W-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

HPLC/IC

Analysis Batch: 162972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-3	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	300.0	
MB 380-162972/6	Method Blank	Total/NA	Water	300.0	
LCS 380-162972/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-162972/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-162972/5	Lab Control Sample	Total/NA	Water	300.0	
380-160027-AF-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-160027-AF-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Analysis Batch: 162737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	200.7 Rev 4.4	
MBL 380-162737/125	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 380-162737/127	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LCSD 380-162737/128	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	
LLCS 380-162737/126	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
380-160180-A-1 MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	
380-160180-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 162750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	200.8	
MBL 380-162750/81	Method Blank	Total/NA	Water	200.8	
LCS 380-162750/83	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-162750/84	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-162750/82	Lab Control Sample	Total/NA	Water	200.8	
380-160194-R-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-160194-R-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 162751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	200.8	
MBL 380-162751/81	Method Blank	Total/NA	Water	200.8	
LCS 380-162751/83	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-162751/84	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-162751/82	Lab Control Sample	Total/NA	Water	200.8	
380-160194-R-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-160194-R-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

General Chemistry

Analysis Batch: 162690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	SM 2540C	
MB 380-162690/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-162690/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-162690/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-162690/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-162690/3	Lab Control Sample	Total/NA	Water	SM 2540C	
380-160100-G-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

General Chemistry

Analysis Batch: 162868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	SM 4500 F C	
MB 380-162868/74	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 380-162868/76	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCSD 380-162868/77	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
MRL 380-162868/75	Lab Control Sample	Total/NA	Water	SM 4500 F C	
380-159607-C-2 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
380-159607-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 162869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	SM 2320B	
MB 380-162869/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 380-162869/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 380-162869/19	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 380-162869/5	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 380-162869/3	Lab Control Sample	Total/NA	Water	SM 2320B	
380-159778-E-1 MS	Matrix Spike	Total/NA	Water	SM 2320B	
380-159778-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2320B	
380-159778-E-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 162938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	SM 2510B	
MB 380-162938/3	Method Blank	Total/NA	Water	SM 2510B	
LCS 380-162938/5	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 380-162938/17	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
MRL 380-162938/4	Lab Control Sample	Total/NA	Water	SM 2510B	
380-159778-E-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 162939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	SM 4500 H+ B	
MB 380-162939/5	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCS 380-162939/6	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 380-162939/18	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
380-159778-E-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 162964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Total/NA	Water	SM 4500 S2 D	
MB 380-162964/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 380-162964/5	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 380-162964/6	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
MRL 380-162964/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
380-159445-J-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
380-159445-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 164040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-2	MOANALUA WELLS (331-223-TP202)	Total/NA	Water	SM 4500 F C	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

General Chemistry (Continued)

Analysis Batch: 164040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-160197-3	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	SM 4500 F C	
MB 380-164040/6	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 380-164040/8	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCSD 380-164040/9	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
MRL 380-164040/7	Lab Control Sample	Total/NA	Water	SM 4500 F C	
380-160853-C-4 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
380-160853-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Lab Chronicle

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-1

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	164064	N4CJ	EA POM	07/21/25 19:00
Total/NA	Analysis	524.2		1	164471	KP	EA POM	07/21/25 19:00
Total/NA	Prep	525.2			162833	OTM3	EA POM	07/15/25 06:23
Total/NA	Analysis	525.2		1	163097	Q8LA	EA POM	07/16/25 16:09
Total/NA	Prep	625.1			597175	H1SH	EET CAL 4	07/15/25 05:23
Total/NA	Analysis	625.1		1	601736	CG	EET CAL 4	07/24/25 15:51
Total/NA	Prep	625.1			597175	H1SH	EET CAL 4	07/15/25 05:23
Total/NA	Analysis	625.1 SIM		1	601009	PQS1	EET CAL 4	07/23/25 15:17
Total/NA	Analysis	8015B GRO LL		1	599688	W4LC	EET CAL 4	07/20/25 19:31
Total/NA	Prep	504 1			162921	GVC6	EA POM	07/15/25 16:49 - 07/15/25 18:23 ¹
Total/NA	Analysis	504.1		1	163134	GVC6	EA POM	07/16/25 05:15
Total/NA	Prep	505			163108	DR5R	EA POM	07/16/25 10:30 - 07/16/25 12:39 ¹
Total/NA	Analysis	505		1	163429	DR5R	EA POM	07/16/25 21:44
Total/NA	Prep	3510C			596824	TVD6	EET CAL 4	07/14/25 10:41
Total/NA	Analysis	8015B		1	599363	NR	EET CAL 4	07/19/25 06:04
Total/NA	Analysis	8015B		1	596929	ZE2W	EET CAL 4	07/15/25 14:22
Total/NA	Analysis	300.0		2	162429	BG6L	EA POM	07/12/25 02:20
Total/NA	Analysis	300.0		5	162460	DXD4	EA POM	07/12/25 14:38
Total/NA	Analysis	300.0		1	162774	UNJR	EA POM	07/15/25 03:12
Total/NA	Analysis	200.7 Rev 4.4		1	162737	MF7S	EA POM	07/14/25 14:15
Total/NA	Analysis	200.8		1	162750	T8BB	EA POM	07/14/25 13:42
Total/NA	Analysis	200.8		1	162751	T8BB	EA POM	07/14/25 13:49
Total/NA	Analysis	SM 2320B		1	162869	PK4Q	EA POM	07/14/25 21:21
Total/NA	Analysis	SM 2510B		1	162938	PK4Q	EA POM	07/14/25 21:21
Total/NA	Analysis	SM 2540C		1	162690	UJRF	EA POM	07/14/25 12:53
Total/NA	Analysis	SM 4500 F C		1	162868	PK4Q	EA POM	07/14/25 23:52
Total/NA	Analysis	SM 4500 H+ B		1	162939	PK4Q	EA POM	07/14/25 21:21
Total/NA	Analysis	SM 4500 S2 D		1	162964	ZJ2C	EA POM	07/15/25 17:13

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-160197-2

Date Collected: 07/09/25 09:52

Matrix: Water

Date Received: 07/11/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	162429	BG6L	EA POM	07/12/25 02:33
Total/NA	Analysis	300.0		1	162774	UNJR	EA POM	07/15/25 03:39
Total/NA	Analysis	SM 4500 F C		1	164040	PK4Q	EA POM	07/18/25 18:42

Lab Chronicle

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-160197-3

Date Collected: 07/09/25 10:10

Matrix: Water

Date Received: 07/11/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	162429	BG6L	EA POM	07/12/25 02:46
Total/NA	Analysis	300.0		5	162972	UNJR	EA POM	07/16/25 00:10
Total/NA	Analysis	SM 4500 F C		1	164040	PK4Q	EA POM	07/18/25 18:38

Client Sample ID: TB: AIEA WELLS P2 (260) (331-004-WL103)

Lab Sample ID: 380-160197-4

Date Collected: 07/09/25 10:34

Matrix: Water

Date Received: 07/11/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	164128	Q6AD	EA POM	07/22/25 06:44
Total/NA	Analysis	524.2		1	164471	KP	EA POM	07/22/25 06:44
Total/NA	Analysis	8015B GRO LL		1	599688	W4LC	EET CAL 4	07/20/25 21:42
Total/NA	Prep	504.1			162921	GVC6	EA POM	07/15/25 16:49 - 07/15/25 18:23 ¹
Total/NA	Analysis	504.1		1	163134	GVC6	EA POM	07/16/25 05:37

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

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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)

Accreditation/Certification Summary

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

Job ID: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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
525.2	525.2	Water	trans-Nonachlor
SM 2320B		Water	Bicarbonate Alkalinity as CaCO ₃
SM 2320B		Water	Carbonate Alkalinity as CaCO ₃
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	07-31-25
Nevada	State	CA00111	07-31-25
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: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

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: 380-160197-1
SDG: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-160197-1	AIEA WELLS P2 (260) (331-004-WL103)	Water	07/09/25 10:34	07/11/25 09:34	HI0000331
380-160197-2	MOANALUA WELLS (331-223-TP202)	Water	07/09/25 09:52	07/11/25 09:34	HI0000331
380-160197-3	HALAWA WELLS P1 (331-023-WL065)	Water	07/09/25 10:10	07/11/25 09:34	HI0000331
380-160197-4	TB: AIEA WELLS P2 (260) (331-004-WL103)	Water	07/09/25 10:34	07/11/25 09:34	

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**Environment Testing
America**

Loc: 380
Environ **160197**

1000

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-160197-1

SDG Number: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Login Number: 160197

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	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: 380-160197-1

SDG Number: Quarterly: Aiea Wells P2, Moanalua Wells, Halawa Wells P1,

Login Number: 160197

List Number: 2

Creator: Ablian, Samantha

List Source: Eurofins Calscience

List Creation: 07/12/25 11:14 AM

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	4.1/4.4
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	