

ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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JOB DESCRIPTION

RED-HILL
525.2
RUSH Weekly Red Hill

JOB NUMBER

380-80984-1

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



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Definitions/Glossary

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

Job ID: 380-80984-1
SDG: 525.2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

Glossary

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

Case Narrative

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

Job ID: 380-80984-1

Job ID: 380-80984-1

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Job Narrative 380-80984-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 1/31/2024 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4°C, 1.6°C and 3.0°C

GC/MS Semi VOA

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: 380-80984-1
SDG: 525.2

Client Sample ID: MOANALUA WELLS
PWSID Number: HI0000331

Lab Sample ID: 380-80984-1

No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2
PWSID Number: HI0000331

Lab Sample ID: 380-80984-2

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
PWSID Number: HI0000331

Lab Sample ID: 380-80984-3

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
PWSID Number: HI0000331

Lab Sample ID: 380-80984-4

No Detections.

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

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: 380-80984-1
SDG: 525.2

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-80984-1

Date Collected: 01/29/24 09:49

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
2,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
2,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
2,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
4,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
4,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
4,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Acenaphthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Acenaphthylene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Acetochlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Alachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
alpha-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
alpha-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Anthracene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:23	1
Atrazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:23	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:23	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:23	1
beta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 13:23	1
Bromacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Butachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:23	1
Chlorobenzilate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Chloroneb	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Chlorpyrifos	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Chrysene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:23	1
delta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 13:23	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Dieldrin	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 13:23	1
Diethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:23	1
Dimethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:23	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/02/24 15:58	02/04/24 13:23	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Endrin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Endrin aldehyde	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
EPTC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Fluoranthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1

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Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-80984-1

Date Collected: 01/29/24 09:49

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
gamma-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Heptachlor	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 13:23	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Isophorone	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:23	1
Lindane	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 13:23	1
Malathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Methoxychlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Metolachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Molinate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Naphthalene	<0.29		0.29	ug/L		02/02/24 15:58	02/04/24 13:23	1
Parathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Phenanthrene	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 13:23	1
Propachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Simazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Terbacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Terbutylazine	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1
Thiobencarb	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 13:23	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 13:23	1
trans-Nonachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:23	1
Trifluralin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexathiane	3.8	T J N	ug/L		4.52	13798-23-7	02/02/24 15:58	02/04/24 13:23	1
Unknown	200	T J	ug/L		6.47	N/A	02/02/24 15:58	02/04/24 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	87		70 - 130	02/02/24 15:58	02/04/24 13:23	1
Perylene-d12	104		70 - 130	02/02/24 15:58	02/04/24 13:23	1
Triphenylphosphate	107		70 - 130	02/02/24 15:58	02/04/24 13:23	1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-80984-2

Date Collected: 01/29/24 10:45

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
2,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
2,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
2,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
4,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-80984-2

Date Collected: 01/29/24 10:45

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
4,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Acenaphthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Acenaphthylene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Acetochlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Alachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
alpha-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
alpha-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Anthracene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:43	1
Atrazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:43	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:43	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:43	1
beta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 13:43	1
Bromacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Butachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:43	1
Chlorobenzilate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Chloroneb	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Chlorpyrifos	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Chrysene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 13:43	1
delta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 13:43	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Dieldrin	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 13:43	1
Diethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:43	1
Dimethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:43	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/02/24 15:58	02/04/24 13:43	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Endrin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Endrin aldehyde	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
EPTC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Fluoranthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Fluorene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
gamma-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Heptachlor	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 13:43	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Isophorone	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 13:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-80984-2

Date Collected: 01/29/24 10:45

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lindane	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 13:43	1
Malathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Methoxychlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Metolachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Molinate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Naphthalene	<0.30		0.30	ug/L		02/02/24 15:58	02/04/24 13:43	1
Parathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Phenanthrene	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 13:43	1
Propachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Simazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Terbacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Terbutylazine	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1
Thiobencarb	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 13:43	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 13:43	1
trans-Nonachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 13:43	1
Trifluralin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 13:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexathiane	2.1	T J N	ug/L		4.52	13798-23-7	02/02/24 15:58	02/04/24 13:43	1
Unknown	69	T J	ug/L		6.43	N/A	02/02/24 15:58	02/04/24 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	88		70 - 130	02/02/24 15:58	02/04/24 13:43	1
Perylene-d12	105		70 - 130	02/02/24 15:58	02/04/24 13:43	1
Triphenylphosphate	107		70 - 130	02/02/24 15:58	02/04/24 13:43	1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-80984-3

Date Collected: 01/29/24 11:13

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
2,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
2,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
2,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
4,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
4,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
4,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Acenaphthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Acenaphthylene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Acetochlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Alachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
alpha-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
alpha-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-80984-3

Date Collected: 01/29/24 11:13

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:03	1
Atrazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:03	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:03	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:03	1
beta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 14:03	1
Bromacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Butachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:03	1
Chlorobenzilate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Chloroneb	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Chlorpyrifos	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Chrysene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:03	1
delta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 14:03	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Dieldrin	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 14:03	1
Diethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:03	1
Dimethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:03	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/02/24 15:58	02/04/24 14:03	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Endrin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Endrin aldehyde	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
EPTC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Fluoranthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Fluorene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
gamma-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Heptachlor	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 14:03	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Isophorone	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:03	1
Lindane	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 14:03	1
Malathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Methoxychlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Metolachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Molinate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Naphthalene	<0.29		0.29	ug/L		02/02/24 15:58	02/04/24 14:03	1
Parathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-80984-3

Date Collected: 01/29/24 11:13

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 14:03	1
Propachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Simazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Terbacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Terbutylazine	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1
Thiobencarb	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 14:03	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 14:03	1
trans-Nonachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:03	1
Trifluralin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexathiane	1.6	T J N	ug/L		4.52	13798-23-7	02/02/24 15:58	02/04/24 14:03	1
Unknown	13	T J	ug/L		6.43	N/A	02/02/24 15:58	02/04/24 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	89		70 - 130	02/02/24 15:58	02/04/24 14:03	1
Perylene-d12	110		70 - 130	02/02/24 15:58	02/04/24 14:03	1
Triphenylphosphate	107		70 - 130	02/02/24 15:58	02/04/24 14:03	1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-80984-4

Date Collected: 01/29/24 10:21

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
2,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
2,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
2,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
4,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
4,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
4,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Acenaphthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Acenaphthylene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Acetochlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Alachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
alpha-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
alpha-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Anthracene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:23	1
Atrazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:23	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:23	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:23	1
beta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-80984-4

Date Collected: 01/29/24 10:21

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 14:23	1
Bromacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Butachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:23	1
Chlorobenzilate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Chloroneb	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Chlorpyrifos	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Chrysene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 14:23	1
delta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 14:23	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Dieldrin	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 14:23	1
Diethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:23	1
Dimethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:23	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/02/24 15:58	02/04/24 14:23	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Endrin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Endrin aldehyde	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
EPTC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Fluoranthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Fluorene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
gamma-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Heptachlor	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 14:23	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Isophorone	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 14:23	1
Lindane	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 14:23	1
Malathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Methoxychlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Metolachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Molinate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Naphthalene	<0.29		0.29	ug/L		02/02/24 15:58	02/04/24 14:23	1
Parathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Phenanthrene	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 14:23	1
Propachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Simazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Terbacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Terbutylazine	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1
Thiobencarb	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 14:23	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 14:23	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-80984-4

Date Collected: 01/29/24 10:21

Matrix: Drinking Water

Date Received: 01/31/24 10:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Nonachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 14:23	1
Trifluralin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 14:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/02/24 15:58	02/04/24 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	87		70 - 130	02/02/24 15:58	02/04/24 14:23	1
Perylene-d12	91		70 - 130	02/02/24 15:58	02/04/24 14:23	1
Triphenylphosphate	108		70 - 130	02/02/24 15:58	02/04/24 14:23	1

Action Limit Summary

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: MOANALUA WELLS
PWSID Number: HI0000331

Lab Sample ID: 380-80984-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.098		ug/L	2	0.098	525.2	Total/NA
Heptachlor	<0.039		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.049		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.039		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	<0.098		ug/L	40	0.098	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2
PWSID Number: HI0000331

Lab Sample ID: 380-80984-2

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.098		ug/L	2	0.098	525.2	Total/NA
Heptachlor	<0.039		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.049		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.039		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	<0.098		ug/L	40	0.098	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
PWSID Number: HI0000331

Lab Sample ID: 380-80984-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-80984-1
SDG: 525.2

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(Continued)

Lab Sample ID: 380-80984-3

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		RL	Method	Prep Type
				Limit				
Benzo[a]pyrene	<0.020		ug/L	0.2		0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6		0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400		0.59	525.2	Total/NA
Endrin	<0.098		ug/L	2		0.098	525.2	Total/NA
Heptachlor	<0.039		ug/L	0.4		0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.049		ug/L	0.2		0.049	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1		0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50		0.049	525.2	Total/NA
Lindane	<0.039		ug/L	0.2		0.039	525.2	Total/NA
Methoxychlor	<0.098		ug/L	40		0.098	525.2	Total/NA
Simazine	<0.049		ug/L	4		0.049	525.2	Total/NA

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-80984-4

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		RL	Method	Prep Type
				Limit				
Alachlor	<0.049		ug/L	2		0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3		0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2		0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6		0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400		0.59	525.2	Total/NA
Endrin	<0.098		ug/L	2		0.098	525.2	Total/NA
Heptachlor	<0.039		ug/L	0.4		0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.049		ug/L	0.2		0.049	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1		0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50		0.049	525.2	Total/NA
Lindane	<0.039		ug/L	0.2		0.039	525.2	Total/NA
Methoxychlor	<0.098		ug/L	40		0.098	525.2	Total/NA
Simazine	<0.049		ug/L	4		0.049	525.2	Total/NA

Surrogate Summary

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

Job ID: 380-80984-1
 SDG: 525.2

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-80984-1	MOANALUA WELLS	87	104	107
380-80984-2	AIEA GULCH WELLS PUMP 2	88	105	107
380-80984-3	AIEA WELLS PUMPS 1&2 (260) P2	89	110	107
380-80984-4	HALAWA WELLS UNITS 1 & 2 P1	87	91	108

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-80901-CF-1-A MS	Matrix Spike	86	112	116
380-80901-CG-1-A MSD	Matrix Spike Duplicate	87	111	115
LCS 380-74633/23-A	Lab Control Sample	84	103	116
MB 380-74633/21-A	Method Blank	87	96	105
MRL 380-74633/22-A	Lab Control Sample	87	105	114

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: MB 380-74633/21-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74633

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
2,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
2,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
2,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
4,4'-DDD	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
4,4'-DDE	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
4,4'-DDT	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Acenaphthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Acenaphthylene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Acetochlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Alachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
alpha-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
alpha-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Anthracene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 11:05	1
Atrazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 11:05	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 11:05	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 11:05	1
beta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 11:05	1
Bromacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Butachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 11:05	1
Chlorobenzilate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Chloroneb	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Chlorpyrifos	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Chrysene	<0.020		0.020	ug/L		02/02/24 15:58	02/04/24 11:05	1
delta-BHC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/02/24 15:58	02/04/24 11:05	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Dieldrin	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 11:05	1
Diethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 11:05	1
Dimethylphthalate	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 11:05	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/02/24 15:58	02/04/24 11:05	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Endrin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Endrin aldehyde	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
EPTC	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1

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QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: MB 380-74633/21-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74633

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Fluorene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
gamma-Chlordane	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Heptachlor	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 11:05	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Isophorone	<0.49		0.49	ug/L		02/02/24 15:58	02/04/24 11:05	1
Lindane	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 11:05	1
Malathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Methoxychlor	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Metolachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Molinate	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Naphthalene	<0.29		0.29	ug/L		02/02/24 15:58	02/04/24 11:05	1
Parathion	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Phenanthrene	<0.039		0.039	ug/L		02/02/24 15:58	02/04/24 11:05	1
Propachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Pyrene	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Simazine	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Terbacil	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Terbutylazine	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1
Thiobencarb	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 11:05	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/24 15:58	02/04/24 11:05	1
trans-Nonachlor	<0.049		0.049	ug/L		02/02/24 15:58	02/04/24 11:05	1
Trifluralin	<0.098		0.098	ug/L		02/02/24 15:58	02/04/24 11:05	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane	2.42	T J N	ug/L		2.35	124-18-5	02/02/24 15:58	02/04/24 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	87		70 - 130	02/02/24 15:58	02/04/24 11:05	1
Perylene-d12	96		70 - 130	02/02/24 15:58	02/04/24 11:05	1
Triphenylphosphate	105		70 - 130	02/02/24 15:58	02/04/24 11:05	1

Lab Sample ID: LCS 380-74633/23-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.95	1.79		ug/L		92	70 - 130
2,4'-DDD	1.95	2.16		ug/L		111	70 - 130
2,4'-DDE	1.95	2.13		ug/L		110	70 - 130
2,4'-DDT	1.95	2.30		ug/L		118	70 - 130
2,4-Dinitrotoluene	1.95	2.01		ug/L		103	70 - 130
2,6-Dinitrotoluene	1.95	1.89		ug/L		97	70 - 130
2-Methylnaphthalene	1.95	1.84		ug/L		95	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: LCS 380-74633/23-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.95	2.22		ug/L		114	70 - 130
4,4'-DDE	1.95	2.09		ug/L		107	70 - 130
4,4'-DDT	1.95	2.19		ug/L		112	70 - 130
Acenaphthene	1.95	1.72		ug/L		88	70 - 130
Acenaphthylene	1.95	1.71		ug/L		88	70 - 130
Acetochlor	1.95	1.72		ug/L		89	70 - 130
Alachlor	1.95	2.06		ug/L		106	70 - 130
alpha-BHC	1.95	1.81		ug/L		93	70 - 130
alpha-Chlordane	1.95	2.47		ug/L		127	70 - 130
Anthracene	1.95	1.91		ug/L		98	70 - 130
Atrazine	1.95	2.27		ug/L		117	70 - 130
Benz(a)anthracene	1.95	2.16		ug/L		111	70 - 130
Benzo[a]pyrene	1.95	2.16		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.95	2.18		ug/L		112	70 - 130
Benzo[g,h,i]perylene	1.95	2.01		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.95	2.32		ug/L		119	70 - 130
beta-BHC	1.95	1.92		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.84		ug/L		94	70 - 130
Bromacil	1.95	2.25		ug/L		116	70 - 130
Butachlor	1.95	2.25		ug/L		115	70 - 130
Butylbenzylphthalate	1.95	2.19		ug/L		113	70 - 130
Chlorobenzilate	1.95	1.91		ug/L		98	70 - 130
Chloroneb	1.95	1.94		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.08		ug/L		107	70 - 130
Chlorpyrifos	1.95	2.24		ug/L		115	70 - 130
Chrysene	1.95	2.14		ug/L		110	70 - 130
delta-BHC	1.95	1.80		ug/L		92	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.10		ug/L		108	70 - 130
Dibenz(a,h)anthracene	1.95	2.14		ug/L		110	70 - 130
Diclorvos (DDVP)	1.95	1.47		ug/L		76	70 - 130
Dieldrin	1.95	2.01		ug/L		103	70 - 130
Diethylphthalate	1.95	1.86		ug/L		96	70 - 130
Dimethylphthalate	1.95	1.86		ug/L		96	70 - 130
Di-n-butyl phthalate	3.89	4.51		ug/L		116	70 - 130
Di-n-octyl phthalate	1.95	1.49		ug/L		77	70 - 130
Endosulfan I (Alpha)	1.95	1.90		ug/L		98	70 - 130
Endosulfan II (Beta)	1.95	2.10		ug/L		108	70 - 130
Endosulfan sulfate	1.95	2.39		ug/L		123	70 - 130
Endrin	1.95	2.16		ug/L		111	70 - 130
Endrin aldehyde	1.95	1.86		ug/L		96	70 - 130
EPTC	1.95	1.95		ug/L		100	70 - 130
Fluoranthene	1.95	2.19		ug/L		112	70 - 130
Fluorene	1.95	1.96		ug/L		101	70 - 130
gamma-Chlordane	1.95	2.52		ug/L		129	70 - 130
Heptachlor	1.95	1.85		ug/L		95	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.34		ug/L		120	70 - 130
Hexachlorobenzene	1.95	2.05		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.95	2.22		ug/L		114	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.15		ug/L		110	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: LCS 380-74633/23-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.95	1.47		ug/L		76	70 - 130
Lindane	1.95	1.94		ug/L		100	70 - 130
Malathion	1.95	2.35		ug/L		121	70 - 130
Methoxychlor	1.95	2.11		ug/L		108	70 - 130
Metolachlor	1.95	2.15		ug/L		111	70 - 130
Molinate	1.95	1.88		ug/L		96	70 - 130
Naphthalene	1.95	1.69		ug/L		87	70 - 130
Parathion	1.95	1.91		ug/L		98	70 - 130
Pendimethalin (Penoxaline)	1.95	2.22		ug/L		114	70 - 130
Phenanthrene	1.95	1.89		ug/L		97	70 - 130
Propachlor	1.95	1.88		ug/L		97	70 - 130
Pyrene	1.95	2.18		ug/L		112	70 - 130
Simazine	1.95	2.34		ug/L		120	70 - 130
Terbacil	1.95	2.09		ug/L		108	70 - 130
Terbutylazine	1.95	2.24		ug/L		115	70 - 130
Thiobencarb	1.95	1.92		ug/L		99	70 - 130
trans-Nonachlor	1.95	2.26		ug/L		116	70 - 130
Trifluralin	1.95	2.29		ug/L		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	84		70 - 130
Perylene-d12	103		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: MRL 380-74633/22-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0977	0.0979	J	ug/L		100	50 - 150
2,4'-DDD	0.0977	0.116		ug/L		119	50 - 150
2,4'-DDE	0.0977	0.108		ug/L		110	50 - 150
2,4'-DDT	0.0977	0.100		ug/L		103	50 - 150
2,4-Dinitrotoluene	0.0977	0.0758	J	ug/L		78	50 - 150
2,6-Dinitrotoluene	0.0977	0.0819	J	ug/L		84	50 - 150
2-Methylnaphthalene	0.0977	0.0941	J	ug/L		96	50 - 150
4,4'-DDD	0.0977	0.103		ug/L		105	50 - 150
4,4'-DDE	0.0977	0.127		ug/L		130	50 - 150
4,4'-DDT	0.0977	0.127		ug/L		130	50 - 150
Acenaphthene	0.0977	0.0838	J	ug/L		86	50 - 150
Acenaphthylene	0.0977	0.0783	J	ug/L		80	50 - 150
Acetochlor	0.0489	0.0418	J	ug/L		86	50 - 150
Alachlor	0.0489	0.0527		ug/L		108	50 - 150
alpha-BHC	0.0977	0.0884	J	ug/L		90	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		114	50 - 150
Anthracene	0.0195	<0.019		ug/L		93	50 - 150
Atrazine	0.0489	0.0510		ug/L		104	50 - 150
Benz(a)anthracene	0.0489	0.0582		ug/L		119	50 - 150

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: MRL 380-74633/22-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzo[a]pyrene	0.0195	0.0175	J	ug/L		90	50 - 150
Benzo[b]fluoranthene	0.0195	0.0190	J	ug/L		97	50 - 150
Benzo[g,h,i]perylene	0.0489	0.0429	J	ug/L		88	50 - 150
Benzo[k]fluoranthene	0.0195	0.0195	J	ug/L		100	50 - 150
beta-BHC	0.0977	0.0874	J	ug/L		89	50 - 150
Bis(2-ethylhexyl) phthalate	0.586	0.575	J	ug/L		98	50 - 150
Bromacil	0.0977	0.0989		ug/L		101	50 - 150
Butachlor	0.0489	0.0540		ug/L		111	50 - 150
Butylbenzylphthalate	0.147	0.150	J	ug/L		102	50 - 150
Chlorobenzilate	0.0977	0.0904	J	ug/L		92	50 - 150
Chloroneb	0.0977	0.0952	J	ug/L		97	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0977	0.159	^3+	ug/L		163	50 - 150
Chlorpyrifos	0.0489	0.0513		ug/L		105	50 - 150
Chrysene	0.0195	0.0208		ug/L		107	50 - 150
delta-BHC	0.0977	0.107		ug/L		109	50 - 150
Di(2-ethylhexyl)adipate	0.293	0.322	J	ug/L		110	50 - 150
Dibenz(a,h)anthracene	0.0489	0.0460	J	ug/L		94	50 - 150
Diclorvos (DDVP)	0.0489	0.0370	J	ug/L		76	50 - 150
Dieldrin	0.0977	0.104	J	ug/L		107	50 - 150
Diethylphthalate	0.147	0.145	J	ug/L		99	50 - 150
Dimethylphthalate	0.293	0.265	J	ug/L		90	50 - 150
Di-n-butyl phthalate	0.293	0.404	J	ug/L		138	49 - 243
Di-n-octyl phthalate	0.0977	0.110		ug/L		113	50 - 150
Endosulfan I (Alpha)	0.0977	0.0854	J	ug/L		87	50 - 150
Endosulfan II (Beta)	0.0977	0.120		ug/L		123	50 - 150
Endosulfan sulfate	0.0977	0.119		ug/L		121	50 - 150
Endrin	0.0977	0.108		ug/L		111	50 - 150
Endrin aldehyde	0.0977	0.133		ug/L		136	50 - 150
EPTC	0.0977	0.0947	J	ug/L		97	50 - 150
Fluoranthene	0.0489	0.0501	J	ug/L		103	50 - 150
Fluorene	0.0489	<0.049		ug/L		90	50 - 150
gamma-Chlordane	0.0244	0.0269	J	ug/L		110	50 - 150
Heptachlor	0.0391	0.0400		ug/L		102	50 - 150
Heptachlor epoxide (isomer B)	0.0489	0.0593		ug/L		121	50 - 150
Hexachlorobenzene	0.0489	0.0496		ug/L		102	50 - 150
Hexachlorocyclopentadiene	0.0489	0.0465	J	ug/L		95	50 - 150
Indeno[1,2,3-cd]pyrene	0.0489	0.0410	J	ug/L		84	50 - 150
Isophorone	0.0977	0.0840	J	ug/L		86	50 - 150
Lindane	0.0391	0.0395		ug/L		101	50 - 150
Malathion	0.0977	0.0984		ug/L		101	50 - 150
Methoxychlor	0.0977	0.108		ug/L		111	50 - 150
Metolachlor	0.0489	0.0539		ug/L		110	50 - 150
Molinate	0.0977	0.0917	J	ug/L		94	50 - 150
Naphthalene	0.0977	0.0985	J	ug/L		101	50 - 150
Parathion	0.0977	0.114		ug/L		117	50 - 150
Pendimethalin (Penoxaline)	0.0977	0.105		ug/L		108	50 - 150
Phenanthrene	0.0195	0.0206	J	ug/L		106	50 - 150
Propachlor	0.0489	0.0458	J	ug/L		94	50 - 150
Pyrene	0.0489	0.0489	J	ug/L		100	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: MRL 380-74633/22-A
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Simazine	0.0489	0.0563		ug/L		115	50 - 150
Terbacil	0.0977	0.0972	J	ug/L		99	50 - 150
Terbuthylazine	0.0977	0.101		ug/L		103	50 - 150
Thiobencarb	0.0977	0.0965	J	ug/L		99	50 - 150
trans-Nonachlor	0.0244	<0.025		ug/L		100	50 - 150
Trifluralin	0.0977	0.0863	J	ug/L		88	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
2-Nitro-m-xylene	87		70 - 130
Perylene-d12	105		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: 380-80901-CF-1-A MS
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.96	1.86		ug/L		95	70 - 130
2,4'-DDD	<0.097		1.96	2.14		ug/L		109	70 - 130
2,4'-DDE	<0.097		1.96	2.06		ug/L		105	70 - 130
2,4'-DDT	<0.097		1.96	2.23		ug/L		113	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	2.04		ug/L		104	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	1.94		ug/L		99	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.94		ug/L		99	70 - 130
4,4'-DDD	<0.097		1.96	2.16		ug/L		110	70 - 130
4,4'-DDE	<0.097		1.96	2.00		ug/L		102	70 - 130
4,4'-DDT	<0.097		1.96	2.10		ug/L		107	70 - 130
Acenaphthene	<0.097		1.96	1.74		ug/L		89	70 - 130
Acenaphthylene	<0.097		1.96	1.78		ug/L		91	70 - 130
Acetochlor	<0.097		1.96	1.74		ug/L		89	70 - 130
Alachlor	<0.049		1.96	2.11		ug/L		108	70 - 130
alpha-BHC	<0.097		1.96	1.82		ug/L		93	70 - 130
alpha-Chlordane	<0.049		1.96	2.46		ug/L		126	70 - 130
Anthracene	<0.019		1.96	1.78		ug/L		91	70 - 130
Atrazine	<0.049		1.96	2.26		ug/L		115	70 - 130
Benz(a)anthracene	<0.049		1.96	2.09		ug/L		107	70 - 130
Benzo[a]pyrene	<0.019		1.96	2.18		ug/L		111	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	2.28		ug/L		116	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.26		ug/L		115	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.45		ug/L		125	70 - 130
beta-BHC	<0.097		1.96	1.89		ug/L		96	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.91		ug/L		97	70 - 130
Bromacil	<0.097		1.96	2.43		ug/L		124	70 - 130
Butachlor	<0.049		1.96	2.29		ug/L		117	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.21		ug/L		112	70 - 130
Chlorobenzilate	<0.097		1.96	1.97		ug/L		101	70 - 130
Chloroneb	<0.097		1.96	2.07		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097	^3+	1.96	2.08		ug/L		106	70 - 130

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: 380-80901-CF-1-A MS
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Chlorpyrifos	<0.049		1.96	2.29		ug/L		117	70 - 130
Chrysene	<0.019		1.96	2.20		ug/L		112	70 - 130
delta-BHC	<0.097		1.96	1.79		ug/L		91	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	2.01		ug/L		102	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.36		ug/L		120	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.56		ug/L		79	70 - 130
Dieldrin	<0.19		1.96	2.04		ug/L		104	70 - 130
Diethylphthalate	<0.49		1.96	1.90		ug/L		97	70 - 130
Dimethylphthalate	<0.49		1.96	1.92		ug/L		98	70 - 130
Di-n-butyl phthalate	<0.97		3.92	4.59		ug/L		117	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.58		ug/L		80	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	1.96		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.097		1.96	2.11		ug/L		108	70 - 130
Endosulfan sulfate	<0.097		1.96	2.42		ug/L		124	70 - 130
Endrin	<0.097		1.96	2.24		ug/L		114	70 - 130
Endrin aldehyde	<0.097	F1	1.96	1.35	F1	ug/L		69	70 - 130
EPTC	<0.097		1.96	2.10		ug/L		107	70 - 130
Fluoranthene	<0.097		1.96	2.14		ug/L		109	70 - 130
Fluorene	<0.049		1.96	1.97		ug/L		100	70 - 130
gamma-Chlordane	<0.049	F1	1.96	2.51		ug/L		128	70 - 130
Heptachlor	<0.039		1.96	1.84		ug/L		94	70 - 130
Heptachlor epoxide (isomer B)	<0.049		1.96	2.35		ug/L		120	70 - 130
Hexachlorobenzene	<0.049		1.96	2.01		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.20		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.34		ug/L		119	70 - 130
Isophorone	<0.49		1.96	1.58		ug/L		81	70 - 130
Lindane	<0.039		1.96	1.93		ug/L		98	70 - 130
Malathion	<0.097		1.96	2.42		ug/L		124	70 - 130
Methoxychlor	<0.097		1.96	2.28		ug/L		116	70 - 130
Metolachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Molinate	<0.097		1.96	1.96		ug/L		100	70 - 130
Naphthalene	<0.29		1.96	1.75		ug/L		89	70 - 130
Parathion	<0.097		1.96	1.97		ug/L		100	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.27		ug/L		116	70 - 130
Phenanthrene	<0.039		1.96	1.91		ug/L		97	70 - 130
Propachlor	<0.049		1.96	1.91		ug/L		97	70 - 130
Pyrene	<0.049		1.96	2.16		ug/L		110	70 - 130
Simazine	<0.049		1.96	2.34		ug/L		119	70 - 130
Terbacil	<0.097		1.96	2.14		ug/L		109	70 - 130
Terbutylazine	<0.097		1.96	2.25		ug/L		115	70 - 130
Thiobencarb	<0.19		1.96	1.97		ug/L		100	70 - 130
trans-Nonachlor	<0.049		1.96	2.27		ug/L		116	70 - 130
Trifluralin	<0.097		1.96	2.36		ug/L		121	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	86		70 - 130
Perylene-d12	112		70 - 130
Triphenylphosphate	116		70 - 130

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: 380-80901-CG-1-A MSD
Matrix: Water
Analysis Batch: 74817

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74633

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1-Methylnaphthalene	<0.097		1.96	1.84		ug/L		94	70 - 130	1	20
2,4'-DDD	<0.097		1.96	2.15		ug/L		110	70 - 130	1	20
2,4'-DDE	<0.097		1.96	2.08		ug/L		106	70 - 130	1	20
2,4'-DDT	<0.097		1.96	2.25		ug/L		115	70 - 130	1	20
2,4-Dinitrotoluene	<0.097		1.96	1.99		ug/L		102	70 - 130	3	20
2,6-Dinitrotoluene	<0.097		1.96	1.90		ug/L		97	70 - 130	2	20
2-Methylnaphthalene	<0.097		1.96	1.90		ug/L		97	70 - 130	2	20
4,4'-DDD	<0.097		1.96	2.17		ug/L		111	70 - 130	1	20
4,4'-DDE	<0.097		1.96	2.00		ug/L		102	70 - 130	0	20
4,4'-DDT	<0.097		1.96	2.09		ug/L		107	70 - 130	0	20
Acenaphthene	<0.097		1.96	1.72		ug/L		88	70 - 130	1	20
Acenaphthylene	<0.097		1.96	1.75		ug/L		89	70 - 130	2	20
Acetochlor	<0.097		1.96	1.78		ug/L		91	70 - 130	3	20
Alachlor	<0.049		1.96	2.14		ug/L		109	70 - 130	1	20
alpha-BHC	<0.097		1.96	1.79		ug/L		91	70 - 130	2	20
alpha-Chlordane	<0.049		1.96	2.50		ug/L		128	70 - 130	2	20
Anthracene	<0.019		1.96	1.76		ug/L		90	70 - 130	1	20
Atrazine	<0.049		1.96	2.21		ug/L		113	70 - 130	2	20
Benz(a)anthracene	<0.049		1.96	2.07		ug/L		106	70 - 130	1	20
Benzo[a]pyrene	<0.019		1.96	2.13		ug/L		109	70 - 130	2	20
Benzo[b]fluoranthene	<0.019		1.96	2.20		ug/L		112	70 - 130	4	20
Benzo[g,h,i]perylene	<0.049		1.96	2.25		ug/L		115	70 - 130	1	20
Benzo[k]fluoranthene	<0.019		1.96	2.42		ug/L		124	70 - 130	1	20
beta-BHC	<0.097		1.96	1.85		ug/L		95	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.85		ug/L		95	70 - 130	3	20
Bromacil	<0.097		1.96	2.37		ug/L		121	70 - 130	3	20
Butachlor	<0.049		1.96	2.28		ug/L		117	70 - 130	1	20
Butylbenzylphthalate	<0.49		1.96	2.18		ug/L		111	70 - 130	1	20
Chlorobenzilate	<0.097		1.96	1.81		ug/L		93	70 - 130	9	20
Chloroneb	<0.097		1.96	2.02		ug/L		103	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	<0.097	^3+	1.96	2.15		ug/L		110	70 - 130	3	20
Chlorpyrifos	<0.049		1.96	2.24		ug/L		115	70 - 130	2	20
Chrysene	<0.019		1.96	2.16		ug/L		111	70 - 130	2	20
delta-BHC	<0.097		1.96	1.80		ug/L		92	70 - 130	0	20
Di(2-ethylhexyl)adipate	<0.58		1.96	1.98		ug/L		102	70 - 130	1	20
Dibenz(a,h)anthracene	<0.049		1.96	2.35		ug/L		120	70 - 130	0	20
Diclorvos (DDVP)	<0.049		1.96	1.57		ug/L		80	70 - 130	1	20
Dieldrin	<0.19		1.96	2.04		ug/L		104	70 - 130	0	20
Diethylphthalate	<0.49		1.96	1.90		ug/L		97	70 - 130	0	20
Dimethylphthalate	<0.49		1.96	1.87		ug/L		96	70 - 130	2	20
Di-n-butyl phthalate	<0.97		3.91	4.60		ug/L		118	70 - 130	0	20
Di-n-octyl phthalate	<0.097		1.96	1.54		ug/L		79	70 - 130	2	20
Endosulfan I (Alpha)	<0.097		1.96	1.99		ug/L		102	70 - 130	2	20
Endosulfan II (Beta)	<0.097		1.96	2.14		ug/L		109	70 - 130	1	20
Endosulfan sulfate	<0.097		1.96	2.38		ug/L		122	70 - 130	2	20
Endrin	<0.097		1.96	2.15		ug/L		110	70 - 130	4	20
Endrin aldehyde	<0.097	F1	1.96	1.39		ug/L		71	70 - 130	3	20
EPTC	<0.097		1.96	2.09		ug/L		107	70 - 130	1	20

QC Sample Results

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

Job ID: 380-80984-1
SDG: 525.2

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

Lab Sample ID: 380-80901-CG-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 74817

Prep Batch: 74633

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Fluoranthene	<0.097		1.96	2.17		ug/L		111	70 - 130	1	20
Fluorene	<0.049		1.96	1.93		ug/L		99	70 - 130	2	20
gamma-Chlordane	<0.049	F1	1.96	2.55	F1	ug/L		131	70 - 130	2	20
Heptachlor	<0.039		1.96	1.90		ug/L		97	70 - 130	3	20
Heptachlor epoxide (isomer B)	<0.049		1.96	2.39		ug/L		122	70 - 130	2	20
Hexachlorobenzene	<0.049		1.96	1.98		ug/L		101	70 - 130	1	20
Hexachlorocyclopentadiene	<0.049		1.96	2.15		ug/L		110	70 - 130	3	20
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.31		ug/L		118	70 - 130	1	20
Isophorone	<0.49		1.96	1.57		ug/L		80	70 - 130	0	20
Lindane	<0.039		1.96	1.91		ug/L		98	70 - 130	1	20
Malathion	<0.097		1.96	2.42		ug/L		124	70 - 130	0	20
Methoxychlor	<0.097		1.96	2.21		ug/L		113	70 - 130	3	20
Metolachlor	<0.049		1.96	2.23		ug/L		114	70 - 130	0	20
Molinate	<0.097		1.96	1.91		ug/L		98	70 - 130	3	20
Naphthalene	<0.29		1.96	1.71		ug/L		87	70 - 130	3	20
Parathion	<0.097		1.96	1.95		ug/L		100	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.097		1.96	2.25		ug/L		115	70 - 130	1	20
Phenanthrene	<0.039		1.96	1.91		ug/L		98	70 - 130	0	20
Propachlor	<0.049		1.96	1.91		ug/L		98	70 - 130	0	20
Pyrene	<0.049		1.96	2.16		ug/L		110	70 - 130	0	20
Simazine	<0.049		1.96	2.27		ug/L		116	70 - 130	3	20
Terbacil	<0.097		1.96	2.11		ug/L		108	70 - 130	2	20
Terbutylazine	<0.097		1.96	2.22		ug/L		114	70 - 130	1	20
Thiobencarb	<0.19		1.96	1.95		ug/L		100	70 - 130	1	20
trans-Nonachlor	<0.049		1.96	2.28		ug/L		117	70 - 130	0	20
Trifluralin	<0.097		1.96	2.41		ug/L		123	70 - 130	2	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	87		70 - 130
Perylene-d12	111		70 - 130
Triphenylphosphate	115		70 - 130

QC Association Summary

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

Job ID: 380-80984-1
 SDG: 525.2

GC/MS Semi VOA

Prep Batch: 74633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-80984-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	
380-80984-2	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	525.2	
380-80984-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	525.2	
380-80984-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	525.2	
MB 380-74633/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-74633/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-74633/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-80901-CF-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-80901-CG-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 74817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-80984-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	74633
380-80984-2	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	525.2	74633
380-80984-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	525.2	74633
380-80984-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	525.2	74633
MB 380-74633/21-A	Method Blank	Total/NA	Water	525.2	74633
LCS 380-74633/23-A	Lab Control Sample	Total/NA	Water	525.2	74633
MRL 380-74633/22-A	Lab Control Sample	Total/NA	Water	525.2	74633
380-80901-CF-1-A MS	Matrix Spike	Total/NA	Water	525.2	74633
380-80901-CG-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	74633

Lab Chronicle

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

Job ID: 380-80984-1
 SDG: 525.2

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-80984-1

Date Collected: 01/29/24 09:49

Matrix: Drinking Water

Date Received: 01/31/24 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			74633	N8NE	EA POM	02/02/24 15:58
Total/NA	Analysis	525.2		1	74817	Q8LA	EA POM	02/04/24 13:23

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-80984-2

Date Collected: 01/29/24 10:45

Matrix: Drinking Water

Date Received: 01/31/24 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			74633	N8NE	EA POM	02/02/24 15:58
Total/NA	Analysis	525.2		1	74817	Q8LA	EA POM	02/04/24 13:43

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-80984-3

Date Collected: 01/29/24 11:13

Matrix: Drinking Water

Date Received: 01/31/24 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			74633	N8NE	EA POM	02/02/24 15:58
Total/NA	Analysis	525.2		1	74817	Q8LA	EA POM	02/04/24 14:03

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-80984-4

Date Collected: 01/29/24 10:21

Matrix: Drinking Water

Date Received: 01/31/24 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			74633	N8NE	EA POM	02/02/24 15:58
Total/NA	Analysis	525.2		1	74817	Q8LA	EA POM	02/04/24 14:23

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-80984-1
 SDG: 525.2

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-24 *

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	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acenaphthene
525.2	525.2	Drinking Water	Acenaphthylene
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	Anthracene
525.2	525.2	Drinking Water	Benz(a)anthracene
525.2	525.2	Drinking Water	Benzo[b]fluoranthene
525.2	525.2	Drinking Water	Benzo[g,h,i]perylene
525.2	525.2	Drinking Water	Benzo[k]fluoranthene
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Bromacil
525.2	525.2	Drinking Water	Butylbenzylphthalate
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	Chrysene
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Dibenz(a,h)anthracene
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Diethylphthalate
525.2	525.2	Drinking Water	Dimethylphthalate
525.2	525.2	Drinking Water	Di-n-butyl phthalate
525.2	525.2	Drinking Water	Di-n-octyl phthalate
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	Fluoranthene
525.2	525.2	Drinking Water	Fluorene
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Indeno[1,2,3-cd]pyrene
525.2	525.2	Drinking Water	Isophorone

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

Job ID: 380-80984-1
SDG: 525.2

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
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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	Drinking Water	Malathion
525.2	525.2	Drinking Water	Molinate
525.2	525.2	Drinking Water	Naphthalene
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Phenanthrene
525.2	525.2	Drinking Water	Pyrene
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Thiobencarb
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Drinking Water	Trifluralin

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

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

Job ID: 380-80984-1
SDG: 525.2

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

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Sample Summary

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

Job ID: 380-80984-1
SDG: 525.2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-80984-1	MOANALUA WELLS	Drinking Water	01/29/24 09:49	01/31/24 10:20	HI0000331
380-80984-2	AIEA GULCH WELLS PUMP 2	Drinking Water	01/29/24 10:45	01/31/24 10:20	HI0000331
380-80984-3	AIEA WELLS PUMPS 1&2 (260) P2	Drinking Water	01/29/24 11:13	01/31/24 10:20	HI0000331
380-80984-4	HALAWA WELLS UNITS 1 & 2 P1	Drinking Water	01/29/24 10:21	01/31/24 10:20	HI0000331

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Monrovia, CA (Suite 100)

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

Chain of Custody Record



Client Information

Client Contact: Dr. Ron Fenstermacher
 Phone: 808-748-5840
 Company: PWSID

Lab PM: Arada, Rachelle
 E-Mail: Rachelle.Arada@et.euronisus.com
 State of Origin:

COC No: 380-27984-2757 2
 Page: Page 1 of 2

Address

630 South Beretania Street, Chemistry Lab
 Honolulu HI, 96843

Due Date Requested:
 TAT Requested (days):
 Compliance Project: Y No

Project Name: RUSH-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill
 Project #: 38001111
 SSO#:

Project #:
 PO #:
 CQ0525101 exp 05312023
 WQ #:

Email: rfenstermacher@hbws.org

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	State of Origin	Job #	Special Instructions/Note:
MOANALUA WELLS	29-Jan-2024	0949	G	Water		R	Y	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs			chlorinated
AIEA GULCH WELLS PUMP2	22-Jan-2024	1045	G	Water		A	Y	8015B_GRO_LL - (MOD) GRO			chlorinated
AIEA WELLS PUMPS 1&2 (260)	22-Jan-2024	1113	G	Water		Q	Y	8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18			
HALAWA WELLS UNITS 1&2	22-Jan-2024	1021	G	Water		2	Y	525.2_PREC - (MOD) 525plus PLUS TICs			
						4	Y	537.1_DW_PREC - 537.1 Full List			
						2	N	533 - All Analytes			
TB MOANALUA WELLS	29-Jan-2024	0949		Water		2					
TB AIEA GULCH WELLS PUMP2	29-Jan-2024	1045		Water		2					
TB AIEA WELLS PUMPS 1&2 (260)	29-Jan-2024	1113		Water		2					
TB HALAWA WELLS UNITS 1&2	29-Jan-2024	1021		Water		2					

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by

Relinquished by: bailey
 Date/Time: 2024/01/29
 Company: HBWS

Relinquished by: bailey
 Date/Time: 2024/01/29
 Company: HBWS

Custody Seals Intact: Yes No
 Custody Seal No.:

Received by: bailey
 Date/Time: 2024/01/29
 Company: HBWS

Received by: bailey
 Date/Time: 2024/01/29
 Company: HBWS

Received by: bailey
 Date/Time: 2024/01/29
 Company: HBWS

Received by: bailey
 Date/Time: 2024/01/29
 Company: HBWS

Cooler Temperature(s) °C and Other Remarks:

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

Chain of Custody Record



Client Information
 Client Contact: **Dr. Ron Fenslemacher**
 Phone: 808-748-5840
 Email: Rachelle.Arada@el.euronisus.com

Sample Information
 Sample ID: **dalley**
 Lab PM: Arada, Rachelle
 Corner Tracking No(s):

Company
 City & County of Honolulu
 Address: 630 South Beretania Street, Chemistry Lab
 City: Honolulu
 State: HI, 96843
 Phone: 808-748-5091 (tel)
 Email: rfenslemacher@hbws.org

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 Compliance Project: A No
 PO #: C2052101 exp 05312023
 WO #:
 Project #: 38001111
 Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill
 SSSW#:

Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)

Analysis Requested
 SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs
 8015B_GRO_LL - (MOD) GRO
 8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18
 525.2_PREC - (MOD) 525plus PLUS TICs
 537.1_DW_PREC - 537.1 Full List
 533 - All Analytes

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amelch
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Y - Trizma
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=salt, O=oil, B=bitumen, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note
MOANALUA WELLS	29-Jan-2024	0949	G	Water				3	chlorinated
AIEA GULCH WELLS PUMP2	29-Jan-2024	1045	G	Water				3	chlorinated
AIEA WELLS PUMPS 1&2 (260)	29-Jan-2024	1113	G	Water				3	
HALAWA WELLS UNITS 1&2	29-Jan-2024	1021	G	Water				3	
FB MOANALUA WELLS	29-Jan-2024	0949		Water				1	
FB AIEA GULCH WELLS PUMP2	29-Jan-2024	1045		Water				1	
FB AIEA WELLS PUMPS 1&2 (260)	29-Jan-2024	1113		Water				1	
FB HALAWA WELLS UNITS 1&2	29-Jan-2024	1021		Water				1	

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

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

Empty Kit Relinquished by: _____ Date: _____

Reinquished by: **dalley** Date/Time: **30Jan.2024 1400** Company: HBWS

Reinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No

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

Special Instructions/OC Requirements

Method of Shipment: _____ Date/Time: _____ Company: _____

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

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

Cooler Temperature(s) °C and Other Remarks

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

Chain of Custody Record

eurofins

Client Information		Lab PM Arada, Rachelle		Carrier Tracking No(s) 380-27984-2757 2	
Client Contact: Dr Ron Fenstermacher		E-Mail Rachelle.Arada@eurofins.com		Page Page 1 of 4	
City & County of Honolulu		PWSID		Job #	
Address 630 South Beretania Street, Chemistry Lab		Due Date Requested		Total Number of Containers	
City Honolulu		TAT Requested (days)		Preservation Codes	
State, Zip HI, 96843		Compliance Project		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arniclor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other	
Phone 808-748-5091 (tel)		PO # C20525101 exp 05312023		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecanehydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Email rfenstermacher@hbws.org		WO #		Other	
Project Name RED-HILL/HBWS sites Event Desc. RUSH Weekly Red Hill		Project # 38001111		Special Instructions/Note	
Site SSOW#		SSOW#			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)
MOANALUA WELLS	22-Jan-2024	0949	G	GT	Water
AIEA GULCH WELLS PUMP2	22-Jan-2024	1045	G	GT	Water
AIEA WELLS PUMPS 1&2 (260) PZ	22-Jan-2024	1113	G	GT	Water
HALAWA WELLS UNITS 1&2 P1	22-Jan-2024	1021	G	GT	Water
TB MOANALUA WELLS	22-Jan-2024	0949			Water
TB AIEA GULCH WELLS PUMP2	22-Jan-2024	1045			Water
TB AIEA WELLS PUMPS 1&2 (260)	22-Jan-2024	1113			Water
TB HALAWA WELLS UNITS 1&2	22-Jan-2024	1021			Water
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)					
Empty Kit Relinquished by Relinquished by: Bailey Date/Time: 2024 1400 Company: HBWS					
Relinquished by: G. GREITNER Date/Time: 01/31/2024 10:20 Company: CEAP					
Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]					
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No Cooler Temperature(s) °C and Other Remarks (15.1) (17.0) (12.6) (1.5) (0.1) (1.4) (3.3) (0.1) (3.0) GEL-FROZEN					



Ver: 01/16/2019

Eurofins Eaton Analytical Pomona


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

Chain of Custody Record



eurofins | Enviro

Loc: 380
80984

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-104438.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin: Hawaii		Page: Page 1 of 1	
Company: Eurofins Environment Testing Southwest,				Accreditations Required (See note): State - Hawaii				Job #: 380-80984-1	
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 2/20/2024		Analysis Requested  380-80984 Chain of Custody				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Y - Trizma L - EDA Z - other (specify)	
City: Tustin		TAT Requested (days):							
State, Zip: CA, 92780		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
Phone: 714-895-5494(Tel)		WO #:		8015B_GRO_LL5030C (MOD) GRO		8015B_DRO_LL_CS/AS10C_LL_HNL Ranges: C10-C24/C24-C36/C8-C18		8015B_GRO_LL5030C GRO	
Email:		Project #: 38001111		SSOW#:		BT+Tissue, A=Air		Other:	
Project Name: RED-HILL		Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site: Honolulu BWS Sites		Matrix (Wwater, Ssolid, Owaste/oil, BT+Tissue, A=Air)		Preservation Code:		Special Instructions/Note:			
		MOANALUA WELLS (380-80984-1)		1/22/24		09:49 Hawaiian		Water	
		AIEA GULCH WELLS PUMP 2 (380-80984-2)		1/22/24		10:45 Hawaiian		Water	
		AIEA WELLS PUMPS 1&2 (260) P2 (380-80984-3)		1/22/24		11:13 Hawaiian		Water	
		HALAWA WELLS UNITS 1 & 2 P1 (380-80984-4)		1/22/24		10:21 Hawaiian		Water	
		TB: MOANALUA WELLS (380-80984-5)		1/22/24		09:49 Hawaiian		Water	
		TB: AIEA GULCH WELLS PUMP 2 (380-80984-6)		1/22/24		10:45 Hawaiian		Water	
		TB: AIEA WELLS PUMPS 1&2 (260) (380-80984-7)		1/22/24		11:13 Hawaiian		Water	
		TB: HALAWA WELLS UNITS 1 & 2 P1 (380-80984-8)		1/22/24		10:21 Hawaiian		Water	
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.									
Possible Hazard Identification Unconfirmed					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Michelle B. MD</i>		Date/Time: 1/31/24 14:54		Company: EET-Pom		Received by: <i>Daniel Villanueva</i>		Date/Time: 1/31/24 2:55	
Relinquished by: <i>Daniel Villanueva</i>		Date/Time: 1/31/24 4:31		Company: DCS		Received by: <i>[Signature]</i>		Date/Time: 1/31/24 16:31	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4/1.4 Seal					

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-80984-1

SDG Number: 525.2

Login Number: 80984

List Number: 1

Creator: Elyas, Matthew

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and 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.	False	Refer to NCM for affected items.
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

