

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea Wells Pumps 1&2 P2
RUSH Weekly Red Hill

JOB NUMBER

380-168205-1

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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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Detection Summary	7
Client Sample Results	8
Action Limit Summary	15
Surrogate Summary	16
QC Sample Results	19
QC Association Summary	37
Lab Chronicle	39
Certification Summary	41
Method Summary	43
Sample Summary	44
Chain of Custody	45
Receipt Checklists	47



Definitions/Glossary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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.

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
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Definitions/Glossary

Client: City & County of Honolulu
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Wells Pumps 1&2 P2

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Case Narrative

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

Job ID: 380-168205-1

Job ID: 380-168205-1

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Job Narrative 380-168205-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/27/2025 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.4°C and 2.0°C.

Receipt Exceptions

GC VOA

Method 625.1_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-617934 and analytical batch 570-619556 were outside control limits. Sample matrix interference is suspected.

Method 525.2_PREC: The matrix spike (MS) recovery for preparation batch 380-170954 and analytical batch 380-171761 was below control limits for Anthracene. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Gasoline Range Organics

8015B_GRO_LL for HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) (380-168205-1), HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-1[MS]), HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-1[MSD]), TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-2), AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) (380-168205-3) and TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-168205-4) sampled on 08/25/25 are a resample for HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) (380-167051-1), TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-167051-2), AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) (380-167051-3), TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-167051-4) collected on 08/18/25. (XWB4)

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-618766 and analytical batch 570-621987 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Detection Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-168205-1

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.045		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0098	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-168205-2

No Detections.

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.011		0.010	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-168205-4

No Detections.

Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-168205-1

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

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		08/27/25 14:18	09/01/25 12:15	1
2,4'-DDD	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
2,4'-DDE	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
2,4' DDT	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
4,4'-DDD	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
4,4'-DDE	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
4,4'-DDT	<0.098	^3+	0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Acenaphthene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Acenaphthylene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Acetochlor	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Alachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
alpha-BHC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
alpha-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Anthracene	<0.020	F1	0.020	ug/L		08/27/25 14:18	09/01/25 12:15	1
Atrazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:15	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:15	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:15	1
beta-BHC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 12:15	1
Bromacil	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Butachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 12:15	1
Chlorobenzilate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Chloroneb	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Chlorpyrifos	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Chrysene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:15	1
delta-BHC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 12:15	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Dieldrin	0.045		0.0098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Diethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 12:15	1
Dimethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 12:15	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/27/25 14:18	09/01/25 12:15	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Endrin	<0.0098		0.0098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Endrin aldehyde	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1

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Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-168205-1

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Fluoranthene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Fluorene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
gamma-Chlordane	0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Heptachlor	<0.0098		0.0098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Heptachlor epoxide (isomer B)	0.012		0.0098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Isophorone	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Lindane	<0.0098		0.0098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Malathion	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Methoxychlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Metolachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Molinate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Naphthalene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Parathion	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Phenanthrene	<0.039		0.039	ug/L		08/27/25 14:18	09/01/25 12:15	1
Propachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Simazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Terbacil	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Terbutylazine	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Thiobencarb	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/25 14:18	09/01/25 12:15	1
trans-Nonachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 12:15	1
Trifluralin	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 12:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/27/25 14:18	09/01/25 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	08/27/25 14:18	09/01/25 12:15	1
Perylene-d12	85		70 - 130	08/27/25 14:18	09/01/25 12:15	1
Triphenylphosphate	100		70 - 130	08/27/25 14:18	09/01/25 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Acenaphthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Acenaphthylene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Anthracene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-168205-1

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

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
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Chrysene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Fluorene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Naphthalene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Phenanthrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1
Pyrene	<0.19	F1	0.19	ug/L		08/28/25 08:30	09/02/25 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		28 - 127	08/28/25 08:30	09/02/25 10:04	1
2-Fluorobiphenyl (Surr)	80		31 - 120	08/28/25 08:30	09/02/25 10:04	1
2-Fluorophenol (Surr)	54		17 - 120	08/28/25 08:30	09/02/25 10:04	1
Nitrobenzene-d5 (Surr)	81		27 - 120	08/28/25 08:30	09/02/25 10:04	1
Phenol-d6 (Surr)	33		10 - 120	08/28/25 08:30	09/02/25 10:04	1
p-Terphenyl-d14 (Surr)	90		45 - 120	08/28/25 08:30	09/02/25 10:04	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	9.3	T J N	ug/L		9.78	10544-50-0	08/28/25 08:30	09/10/25 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		33 - 139	08/28/25 08:30	09/10/25 12:36	1
2-Fluorobiphenyl (Surr)	86		33 - 126	08/28/25 08:30	09/10/25 12:36	1
2-Fluorophenol (Surr)	54		12 - 120	08/28/25 08:30	09/10/25 12:36	1
Nitrobenzene-d5 (Surr)	89		36 - 120	08/28/25 08:30	09/10/25 12:36	1
Phenol-d6 (Surr)	31		10 - 120	08/28/25 08:30	09/10/25 12:36	1
p-Terphenyl-d14 (Surr)	82		47 - 131	08/28/25 08:30	09/10/25 12:36	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			09/02/25 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		09/02/25 19:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/29/25 09:41	09/07/25 05:53	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/29/25 09:41	09/07/25 05:53	1
C8-C18	<25		25	ug/L		08/29/25 09:41	09/07/25 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		60 - 130	08/29/25 09:41	09/07/25 05:53	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-168205-2

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

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			09/02/25 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134				09/02/25 20:48	1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

Date Collected: 08/25/25 12:16

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
2,4'-DDD	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
2,4'-DDE	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
2,4'-DDT	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
2-Methylnaphthalene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
4,4'-DDD	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
4,4'-DDE	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
4,4'-DDT	<0.10	^3+	0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Acenaphthene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Acenaphthylene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Acetochlor	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Alachlor	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
alpha-BHC	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
alpha-Chlordane	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Anthracene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:56	1
Atrazine	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:56	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:56	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:56	1
beta-BHC	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/27/25 14:18	09/01/25 12:56	1
Bromacil	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Butachlor	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/27/25 14:18	09/01/25 12:56	1
Chlorobenzilate	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Chloroneb	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Chlorpyrifos	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Chrysene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 12:56	1
delta-BHC	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/27/25 14:18	09/01/25 12:56	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

Date Collected: 08/25/25 12:16

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Dieldrin	0.011		0.010	ug/L		08/27/25 14:18	09/01/25 12:56	1
Diethylphthalate	<0.50		0.50	ug/L		08/27/25 14:18	09/01/25 12:56	1
Dimethylphthalate	<0.50		0.50	ug/L		08/27/25 14:18	09/01/25 12:56	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		08/27/25 14:18	09/01/25 12:56	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Endosulfan sulfate	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Endrin	<0.010		0.010	ug/L		08/27/25 14:18	09/01/25 12:56	1
Endrin aldehyde	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
EPTC	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Fluoranthene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Fluorene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
gamma-Chlordane	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Heptachlor	<0.010		0.010	ug/L		08/27/25 14:18	09/01/25 12:56	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		08/27/25 14:18	09/01/25 12:56	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Isophorone	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Lindane	<0.010		0.010	ug/L		08/27/25 14:18	09/01/25 12:56	1
Malathion	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Methoxychlor	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Metolachlor	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Molinate	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Naphthalene	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Parathion	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Phenanthrene	<0.040		0.040	ug/L		08/27/25 14:18	09/01/25 12:56	1
Propachlor	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Pyrene	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Simazine	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Terbacil	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Terbuthylazine	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Thiobencarb	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/25 14:18	09/01/25 12:56	1
trans-Nonachlor	<0.050		0.050	ug/L		08/27/25 14:18	09/01/25 12:56	1
Trifluralin	<0.10		0.10	ug/L		08/27/25 14:18	09/01/25 12:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/27/25 14:18	09/01/25 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	08/27/25 14:18	09/01/25 12:56	1
Perylene-d12	84		70 - 130	08/27/25 14:18	09/01/25 12:56	1
Triphenylphosphate	98		70 - 130	08/27/25 14:18	09/01/25 12:56	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

Date Collected: 08/25/25 12:16

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Acenaphthene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Acenaphthylene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Anthracene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Chrysene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Fluorene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Naphthalene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Phenanthrene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1
Pyrene	<0.20		0.20	ug/L		08/28/25 08:30	09/02/25 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	08/28/25 08:30	09/02/25 10:26	1
2-Fluorobiphenyl (Surr)	83		31 - 120	08/28/25 08:30	09/02/25 10:26	1
2-Fluorophenol (Surr)	59		17 - 120	08/28/25 08:30	09/02/25 10:26	1
Nitrobenzene-d5 (Surr)	86		27 - 120	08/28/25 08:30	09/02/25 10:26	1
Phenol-d6 (Surr)	36		10 - 120	08/28/25 08:30	09/02/25 10:26	1
p-Terphenyl-d14 (Surr)	97		45 - 120	08/28/25 08:30	09/02/25 10:26	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	13	T J N	ug/L		9.78	10544-50-0	08/28/25 08:30	09/10/25 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139	08/28/25 08:30	09/10/25 12:58	1
2-Fluorobiphenyl (Surr)	84		33 - 126	08/28/25 08:30	09/10/25 12:58	1
2-Fluorophenol (Surr)	58		12 - 120	08/28/25 08:30	09/10/25 12:58	1
Nitrobenzene-d5 (Surr)	96		36 - 120	08/28/25 08:30	09/10/25 12:58	1
Phenol-d6 (Surr)	34		10 - 120	08/28/25 08:30	09/10/25 12:58	1
p-Terphenyl-d14 (Surr)	82		47 - 131	08/28/25 08:30	09/10/25 12:58	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			09/02/25 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		38 - 134		09/02/25 21:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

Date Collected: 08/25/25 12:16

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/29/25 09:41	09/07/25 06:14	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/29/25 09:41	09/07/25 06:14	1
C8-C18	<25		25	ug/L		08/29/25 09:41	09/07/25 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130			08/29/25 09:41	09/07/25 06:14	1

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-168205-4

Date Collected: 08/25/25 12:16

Matrix: Water

Date Received: 08/27/25 10:04

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			09/02/25 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134				09/02/25 21:12	1

Action Limit Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-168205-1

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	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

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			
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60		ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.010		ug/L	2	0.010	525.2	Total/NA
Heptachlor	<0.010		ug/L	0.4	0.010	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Matrix: Drinking 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)
380-168205-1	HALAWA WELLS UNITS 1 & 2 F	97	85	100
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	94	95	102

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-168205-3	AIEA WELLS PUMPS 1&2 (260)	94	84	98
380-168209-I-1-A DU	Duplicate	93	89	102
LCS 380-170954/21-A	Lab Control Sample	96	94	101
LCSD 380-170954/22-A	Lab Control Sample Dup	94	95	100
MB 380-170954/19-A	Method Blank	95	87	104
MRL 380-170954/20-A	Lab Control Sample	97	88	112

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Drinking 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)
380-168205-1	HALAWA WELLS UNITS 1 & 2 F	82	86	54	89	31	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - 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)
380-168205-3	AIEA WELLS PUMPS 1&2 (260)	85	84	58	96	34	82
MB 570-617934/1-A	Method Blank	78	79	52	87	31	79

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Surrogate Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking 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)
380-168205-1	HALAWA WELLS UNITS 1 & 2 F	79	80	54	81	33	90
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	82	75	59	66	39	84
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	87	83	62	72	39	83

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-168205-3	AIEA WELLS PUMPS 1&2 (260)	85	83	59	86	36	97
LCS 570-617934/2-A	Lab Control Sample	88	75	53	63	34	72
LCSD 570-617934/3-A	Lab Control Sample Dup	92	78	53	66	34	77
MB 570-617934/1-A	Method Blank	95	78	53	81	32	76

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: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-168205-1	HALAWA WELLS UNITS 1 & 2 F	80					
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	90					
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	87					

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Surrogate Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-168205-2	TB: HALAWA WELLS UNITS 1 & 2	77

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-168205-3	AIEA WELLS PUMPS 1&2 (260)	74
380-168205-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	78
LCS 570-619752/4	Lab Control Sample	87
LCSD 570-619752/5	Lab Control Sample Dup	88
MB 570-619752/6	Method Blank	77
MRL 570-619752/3	Lab Control Sample	80

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-168205-1	HALAWA WELLS UNITS 1 & 2	116
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	119
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	104

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-168205-3	AIEA WELLS PUMPS 1&2 (260)	103
LCS 570-618766/2-A	Lab Control Sample	101
LCSD 570-618766/3-A	Lab Control Sample Dup	103
MB 570-618766/1-A	Method Blank	112
MRL 570-618766/4-A	Lab Control Sample	87

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4'-DDD	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4'-DDE	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4'-DDT	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
4,4'-DDD	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
4,4'-DDE	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
4,4'-DDT	<0.099	^3+	0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Acenaphthene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Acenaphthylene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Acetochlor	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Alachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
alpha-BHC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
alpha-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Anthracene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
Atrazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
beta-BHC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 09:34	1
Bromacil	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Butachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chlorobenzilate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chloroneb	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chlorpyrifos	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chrysene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
delta-BHC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 09:34	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Dieldrin	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Diethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 09:34	1
Dimethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 09:34	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/27/25 14:18	09/01/25 09:34	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endrin	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endrin aldehyde	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1

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QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Fluoranthene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Fluorene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
gamma-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Heptachlor	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Isophorone	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Lindane	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Malathion	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Methoxychlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Metolachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Molinate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Naphthalene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Parathion	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Phenanthrene	<0.039		0.039	ug/L		08/27/25 14:18	09/01/25 09:34	1
Propachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Simazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Terbacil	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Terbutylazine	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Thiobencarb	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/25 14:18	09/01/25 09:34	1
trans-Nonachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Trifluralin	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Phenol, m-tert-butyl-	0.723	T J N	ug/L		3.82	585-34-2	08/27/25 14:18	09/01/25 09:34	1
Phenol, 4-(1,1-dimethylpropyl)-	0.516	T J N	ug/L		4.21	80-46-6	08/27/25 14:18	09/01/25 09:34	1
9-Octadecenamide, (Z)-	6.00	T J N	ug/L		7.81	301-02-0	08/27/25 14:18	09/01/25 09:34	1
13-Docosenamide, (Z)-	1.64	T J	ug/L		10.30	N/A	08/27/25 14:18	09/01/25 09:34	1
Unknown	1.06	T J	ug/L		15.33	N/A	08/27/25 14:18	09/01/25 09:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	08/27/25 14:18	09/01/25 09:34	1
Perylene-d12	87		70 - 130	08/27/25 14:18	09/01/25 09:34	1
Triphenylphosphate	104		70 - 130	08/27/25 14:18	09/01/25 09:34	1

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.99		ug/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	2.13		ug/L		108	70 - 130
2,4'-DDE	1.97	2.11		ug/L		107	70 - 130
2,4'-DDT	1.97	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.97	2.05		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.97	1.89		ug/L		96	70 - 130
2-Methylnaphthalene	1.97	1.89		ug/L		96	70 - 130
4,4'-DDD	1.97	2.18		ug/L		111	70 - 130
4,4'-DDE	1.97	2.06		ug/L		105	70 - 130
4,4'-DDT	1.97	2.15		ug/L		109	70 - 130
Acenaphthene	1.97	1.93		ug/L		98	70 - 130
Acenaphthylene	1.97	1.81		ug/L		92	70 - 130
Acetochlor	1.97	2.26		ug/L		115	70 - 130
Alachlor	1.97	2.24		ug/L		114	70 - 130
alpha-BHC	1.97	2.07		ug/L		105	70 - 130
alpha-Chlordane	1.97	2.16		ug/L		110	70 - 130
Anthracene	1.97	1.93		ug/L		98	70 - 130
Atrazine	1.97	2.10		ug/L		106	70 - 130
Benz(a)anthracene	1.97	1.97		ug/L		100	70 - 130
Benzo[a]pyrene	1.97	1.99		ug/L		101	70 - 130
Benzo[b]fluoranthene	1.97	2.02		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.97	2.02		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.97	2.03		ug/L		103	70 - 130
beta-BHC	1.97	2.09		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.98		ug/L		101	70 - 130
Bromacil	1.97	2.06		ug/L		104	70 - 130
Butachlor	1.97	2.37		ug/L		121	70 - 130
Butylbenzylphthalate	1.97	2.23		ug/L		113	70 - 130
Chlorobenzilate	1.97	2.28		ug/L		116	70 - 130
Chloroneb	1.97	2.02		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.94		ug/L		99	70 - 130
Chlorpyrifos	1.97	2.14		ug/L		109	70 - 130
Chrysene	1.97	2.08		ug/L		106	70 - 130
delta-BHC	1.97	2.01		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.18		ug/L		111	70 - 130
Dibenz(a,h)anthracene	1.97	1.96		ug/L		99	70 - 130
Diclorvos (DDVP)	1.97	2.08		ug/L		106	70 - 130
Dieldrin	1.97	2.03		ug/L		103	70 - 130
Diethylphthalate	1.97	2.26		ug/L		115	70 - 130
Dimethylphthalate	1.97	2.03		ug/L		103	70 - 130
Di-n-butyl phthalate	3.94	4.45		ug/L		113	70 - 130
Di-n-octyl phthalate	1.97	2.06		ug/L		105	70 - 130
Endosulfan I (Alpha)	1.97	1.89		ug/L		96	70 - 130
Endosulfan II (Beta)	1.97	2.06		ug/L		104	70 - 130
Endosulfan sulfate	1.97	2.07		ug/L		105	70 - 130
Endrin	1.97	2.19		ug/L		111	70 - 130
Endrin aldehyde	1.97	1.80		ug/L		92	60 - 130
EPTC	1.97	2.07		ug/L		105	70 - 130
Fluoranthene	1.97	2.14		ug/L		109	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	1.97	2.14		ug/L		109	70 - 130
gamma-Chlordane	1.97	2.21		ug/L		112	70 - 130
Heptachlor	1.97	2.21		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.13		ug/L		108	70 - 130
Hexachlorobenzene	1.97	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	1.98		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.95		ug/L		99	70 - 130
Isophorone	1.97	2.04		ug/L		103	70 - 130
Lindane	1.97	2.33		ug/L		119	70 - 130
Malathion	1.97	2.15		ug/L		109	70 - 130
Methoxychlor	1.97	2.25		ug/L		114	70 - 130
Metolachlor	1.97	2.27		ug/L		115	70 - 130
Molinate	1.97	2.23		ug/L		114	70 - 130
Naphthalene	1.97	1.84		ug/L		94	70 - 130
Parathion	1.97	2.31		ug/L		117	70 - 130
Pendimethalin (Penoxaline)	1.97	2.06		ug/L		105	70 - 130
Phenanthrene	1.97	1.95		ug/L		99	70 - 130
Propachlor	1.97	2.25		ug/L		115	70 - 130
Pyrene	1.97	2.21		ug/L		112	70 - 130
Simazine	1.97	2.23		ug/L		113	70 - 130
Terbacil	1.97	2.30		ug/L		117	70 - 130
Terbutylazine	1.97	2.29		ug/L		116	70 - 130
Thiobencarb	1.97	2.29		ug/L		116	70 - 130
trans-Nonachlor	1.97	2.20		ug/L		112	70 - 130
Trifluralin	1.97	2.15		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	1.96		ug/L		100	70 - 130	1	20
2,4'-DDD	1.97	2.04		ug/L		104	70 - 130	4	20
2,4'-DDE	1.97	2.09		ug/L		106	70 - 130	1	20
2,4'-DDT	1.97	1.99		ug/L		101	70 - 130	1	20
2,4-Dinitrotoluene	1.97	2.14		ug/L		109	70 - 130	4	20
2,6-Dinitrotoluene	1.97	2.02		ug/L		103	70 - 130	7	20
2-Methylnaphthalene	1.97	1.83		ug/L		93	70 - 130	3	20
4,4'-DDD	1.97	2.10		ug/L		107	70 - 130	4	20
4,4'-DDE	1.97	1.99		ug/L		101	70 - 130	4	20
4,4'-DDT	1.97	2.12		ug/L		108	70 - 130	2	20
Acenaphthene	1.97	1.99		ug/L		101	70 - 130	3	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthylene	1.97	1.87		ug/L		95	70 - 130	3	20
Acetochlor	1.97	2.22		ug/L		113	70 - 130	2	20
Alachlor	1.97	2.20		ug/L		112	70 - 130	2	20
alpha-BHC	1.97	2.07		ug/L		105	70 - 130	0	20
alpha-Chlordane	1.97	2.03		ug/L		103	70 - 130	6	20
Anthracene	1.97	1.92		ug/L		98	70 - 130	1	20
Atrazine	1.97	2.13		ug/L		108	70 - 130	2	20
Benz(a)anthracene	1.97	1.96		ug/L		100	70 - 130	1	20
Benzo[a]pyrene	1.97	1.97		ug/L		100	70 - 130	1	20
Benzo[b]fluoranthene	1.97	2.14		ug/L		109	70 - 130	6	20
Benzo[g,h,i]perylene	1.97	2.11		ug/L		107	70 - 130	4	20
Benzo[k]fluoranthene	1.97	2.01		ug/L		102	70 - 130	1	20
beta-BHC	1.97	2.14		ug/L		109	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.97	2.07		ug/L		106	70 - 130	4	20
Bromacil	1.97	2.11		ug/L		108	70 - 130	3	20
Butachlor	1.97	2.27		ug/L		116	70 - 130	4	20
Butylbenzylphthalate	1.97	2.09		ug/L		106	70 - 130	6	20
Chlorobenzilate	1.97	2.10		ug/L		107	70 - 130	8	20
Chloroneb	1.97	2.03		ug/L		104	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.97	2.04		ug/L		104	70 - 130	5	20
Chlorpyrifos	1.97	2.17		ug/L		110	70 - 130	1	20
Chrysene	1.97	2.04		ug/L		104	70 - 130	2	20
delta-BHC	1.97	2.06		ug/L		105	70 - 130	2	20
Di(2-ethylhexyl)adipate	1.97	2.09		ug/L		106	70 - 130	5	20
Dibenz(a,h)anthracene	1.97	1.99		ug/L		101	70 - 130	2	20
Diclorvos (DDVP)	1.97	2.03		ug/L		103	70 - 130	2	20
Dieldrin	1.97	1.98		ug/L		101	70 - 130	3	20
Diethylphthalate	1.97	2.20		ug/L		112	70 - 130	2	20
Dimethylphthalate	1.97	1.98		ug/L		101	70 - 130	2	20
Di-n-butyl phthalate	3.93	4.43		ug/L		113	70 - 130	0	20
Di-n-octyl phthalate	1.97	2.15		ug/L		109	70 - 130	4	20
Endosulfan I (Alpha)	1.97	1.76		ug/L		89	70 - 130	7	20
Endosulfan II (Beta)	1.97	1.91		ug/L		97	70 - 130	7	20
Endosulfan sulfate	1.97	2.00		ug/L		102	70 - 130	3	20
Endrin	1.97	2.13		ug/L		108	70 - 130	3	20
Endrin aldehyde	1.97	1.77		ug/L		90	60 - 130	2	20
EPTC	1.97	2.02		ug/L		103	70 - 130	3	20
Fluoranthene	1.97	2.13		ug/L		108	70 - 130	0	20
Fluorene	1.97	2.08		ug/L		106	70 - 130	3	20
gamma-Chlordane	1.97	2.13		ug/L		108	70 - 130	4	20
Heptachlor	1.97	2.22		ug/L		113	70 - 130	0	20
Heptachlor epoxide (isomer B)	1.97	2.11		ug/L		107	70 - 130	1	20
Hexachlorobenzene	1.97	2.05		ug/L		104	70 - 130	0	20
Hexachlorocyclopentadiene	1.97	1.95		ug/L		99	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	1.97	2.05		ug/L		104	70 - 130	5	20
Isophorone	1.97	2.00		ug/L		102	70 - 130	2	20
Lindane	1.97	2.24		ug/L		114	70 - 130	4	20
Malathion	1.97	2.16		ug/L		110	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor	1.97	2.26		ug/L		115	70 - 130	0	20
Metolachlor	1.97	2.24		ug/L		114	70 - 130	1	20
Molinate	1.97	2.19		ug/L		111	70 - 130	2	20
Naphthalene	1.97	1.81		ug/L		92	70 - 130	2	20
Parathion	1.97	2.27		ug/L		115	70 - 130	2	20
Pendimethalin (Penoxaline)	1.97	2.05		ug/L		104	70 - 130	1	20
Phenanthrene	1.97	1.95		ug/L		99	70 - 130	0	20
Propachlor	1.97	2.25		ug/L		114	70 - 130	0	20
Pyrene	1.97	2.09		ug/L		107	70 - 130	6	20
Simazine	1.97	2.26		ug/L		115	70 - 130	2	20
Terbacil	1.97	2.34		ug/L		119	70 - 130	1	20
Terbutylazine	1.97	2.32		ug/L		118	70 - 130	2	20
Thiobencarb	1.97	2.31		ug/L		118	70 - 130	1	20
trans-Nonachlor	1.97	2.03		ug/L		103	70 - 130	8	20
Trifluralin	1.97	2.17		ug/L		110	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0985	0.104		ug/L		105	50 - 150
2,4'-DDD	0.0985	0.106		ug/L		107	50 - 150
2,4'-DDE	0.0985	0.115		ug/L		117	50 - 150
2,4'-DDT	0.0985	0.141		ug/L		144	50 - 150
2,4-Dinitrotoluene	0.0985	0.120		ug/L		122	50 - 150
2,6-Dinitrotoluene	0.0985	0.128		ug/L		130	50 - 150
2-Methylnaphthalene	0.0985	0.105		ug/L		107	50 - 150
4,4'-DDD	0.0985	0.124		ug/L		126	50 - 150
4,4'-DDE	0.0985	0.113		ug/L		115	50 - 150
4,4'-DDT	0.0985	0.157	^3+	ug/L		159	50 - 150
Acenaphthene	0.0985	0.106		ug/L		108	50 - 150
Acenaphthylene	0.0985	0.0848	J	ug/L		86	50 - 150
Acetochlor	0.0985	0.135		ug/L		137	50 - 150
Alachlor	0.0492	0.0604		ug/L		123	50 - 150
alpha-BHC	0.0985	0.114		ug/L		116	50 - 150
alpha-Chlordane	0.0246	0.0307	J	ug/L		125	50 - 150
Anthracene	0.0197	0.0224		ug/L		114	50 - 150
Atrazine	0.0492	0.0640		ug/L		130	50 - 150
Benz(a)anthracene	0.0492	0.0632		ug/L		128	50 - 150
Benzo[a]pyrene	0.0197	0.0234		ug/L		119	50 - 150
Benzo[b]fluoranthene	0.0197	0.0268		ug/L		136	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	0.0492	0.0468	J	ug/L		95	50 - 150
Benzo[k]fluoranthene	0.0197	0.0239		ug/L		121	50 - 150
beta-BHC	0.0985	0.125		ug/L		127	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.674		ug/L		114	50 - 150
Bromacil	0.0985	0.118		ug/L		120	50 - 150
Butachlor	0.0492	0.0678		ug/L		138	50 - 150
Butylbenzylphthalate	0.492	0.725		ug/L		147	50 - 150
Chlorobenzilate	0.0985	0.124		ug/L		126	50 - 150
Chloroneb	0.0985	0.115		ug/L		117	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.106		ug/L		108	50 - 150
Chlorpyrifos	0.0492	0.0681		ug/L		138	50 - 150
Chrysene	0.0197	0.0257		ug/L		131	50 - 150
delta-BHC	0.0985	0.121		ug/L		122	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.822		ug/L		139	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0537		ug/L		109	50 - 150
Diclorvos (DDVP)	0.0492	0.0635		ug/L		129	50 - 150
Dieldrin	0.00985	0.0127		ug/L		129	50 - 150
Diethylphthalate	0.492	0.636		ug/L		129	50 - 150
Dimethylphthalate	0.492	0.576		ug/L		117	50 - 150
Di-n-butyl phthalate	0.492	0.750	J	ug/L		152	49 - 243
Di-n-octyl phthalate	0.0985	0.107		ug/L		108	50 - 150
Endosulfan I (Alpha)	0.0985	0.123		ug/L		125	50 - 150
Endosulfan II (Beta)	0.0985	0.146		ug/L		148	50 - 150
Endosulfan sulfate	0.0985	0.131		ug/L		133	50 - 150
Endrin	0.00985	0.0124		ug/L		126	50 - 150
Endrin aldehyde	0.0985	0.121		ug/L		123	50 - 150
EPTC	0.0985	0.104		ug/L		106	50 - 150
Fluoranthene	0.0985	0.112		ug/L		113	50 - 150
Fluorene	0.0492	0.0566		ug/L		115	50 - 150
gamma-Chlordane	0.0246	0.0282	J	ug/L		114	50 - 150
Heptachlor	0.00985	0.0126		ug/L		127	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.0132		ug/L		134	50 - 150
Hexachlorobenzene	0.0492	0.0523		ug/L		106	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0486	J	ug/L		99	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0591		ug/L		120	50 - 150
Isophorone	0.0985	0.123		ug/L		125	50 - 150
Lindane	0.00985	0.0119		ug/L		121	50 - 150
Malathion	0.0985	0.122		ug/L		124	50 - 150
Methoxychlor	0.0492	0.0716		ug/L		145	50 - 150
Metolachlor	0.0492	0.0663		ug/L		135	50 - 150
Molinate	0.0985	0.119		ug/L		121	50 - 150
Naphthalene	0.0985	0.108		ug/L		110	50 - 150
Parathion	0.0985	0.113		ug/L		114	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.131		ug/L		133	50 - 150
Phenanthrene	0.0394	0.0460		ug/L		117	50 - 150
Propachlor	0.0492	0.0625		ug/L		127	50 - 150
Pyrene	0.0492	0.0590		ug/L		120	50 - 150
Simazine	0.0492	0.0540		ug/L		110	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Terbacil	0.0985	0.121		ug/L		123	50 - 150
Terbutylazine	0.0985	0.118		ug/L		120	50 - 150
Thiobencarb	0.0985	0.124		ug/L		126	50 - 150
trans-Nonachlor	0.0246	0.0296	J	ug/L		120	50 - 150
Trifluralin	0.0985	0.128		ug/L		130	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: 380-168205-1 MS

Matrix: Drinking Water

Analysis Batch: 171761

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	1.93		ug/L		98	70 - 130
2,4'-DDD	<0.098		1.97	2.06		ug/L		104	70 - 130
2,4'-DDE	<0.098		1.97	2.03		ug/L		103	70 - 130
2,4'-DDT	<0.098		1.97	1.97		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.06		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	2.02		ug/L		103	70 - 130
2-Methylnaphthalene	<0.098		1.97	1.78		ug/L		90	70 - 130
4,4'-DDD	<0.098		1.97	2.09		ug/L		106	70 - 130
4,4'-DDE	<0.098		1.97	2.00		ug/L		102	70 - 130
4,4'-DDT	<0.098	^3+	1.97	2.10		ug/L		106	70 - 130
Acenaphthene	<0.098		1.97	1.95		ug/L		99	70 - 130
Acenaphthylene	<0.098		1.97	1.96		ug/L		100	70 - 130
Acetochlor	<0.098		1.97	2.08		ug/L		106	70 - 130
Alachlor	<0.049		1.97	2.08		ug/L		106	70 - 130
alpha-BHC	<0.098		1.97	2.03		ug/L		103	70 - 130
alpha-Chlordane	<0.049		1.97	2.12		ug/L		106	70 - 130
Anthracene	<0.020	F1	1.97	1.26	F1	ug/L		64	70 - 130
Atrazine	<0.049		1.97	2.07		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.97	1.93		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.97	1.84		ug/L		93	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.05		ug/L		104	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.04		ug/L		104	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	1.99		ug/L		101	70 - 130
beta-BHC	<0.098		1.97	2.13		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	2.14		ug/L		109	70 - 130
Bromacil	<0.098		1.97	2.06		ug/L		102	70 - 130
Butachlor	<0.049		1.97	2.26		ug/L		115	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.05		ug/L		104	70 - 130
Chlorobenzilate	<0.098		1.97	2.13		ug/L		108	70 - 130
Chloroneb	<0.098		1.97	1.98		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	1.87		ug/L		95	70 - 130

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QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: 380-168205-1 MS

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 171761

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	<0.049		1.97	2.07		ug/L		105	70 - 130
Chrysene	<0.020		1.97	1.98		ug/L		101	70 - 130
delta-BHC	<0.098		1.97	1.93		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.05		ug/L		104	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.96		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.049		1.97	1.95		ug/L		99	70 - 130
Dieldrin	0.045		1.97	2.08		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.97	2.14		ug/L		109	70 - 130
Dimethylphthalate	<0.49		1.97	2.01		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.98		3.94	4.27		ug/L		108	70 - 130
Di-n-octyl phthalate	<0.098		1.97	2.26		ug/L		115	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	1.86		ug/L		94	70 - 130
Endosulfan II (Beta)	<0.098		1.97	1.97		ug/L		100	70 - 130
Endosulfan sulfate	<0.098		1.97	2.11		ug/L		107	70 - 130
Endrin	<0.0098		1.97	2.13		ug/L		108	70 - 130
Endrin aldehyde	<0.098		1.97	1.51		ug/L		77	60 - 130
EPTC	<0.098		1.97	1.99		ug/L		101	70 - 130
Fluoranthene	<0.098		1.97	2.05		ug/L		104	70 - 130
Fluorene	<0.049		1.97	1.97		ug/L		100	70 - 130
gamma-Chlordane	<0.049		1.97	2.14		ug/L		108	70 - 130
Heptachlor	<0.0098		1.97	2.15		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	0.012		1.97	2.11		ug/L		106	70 - 130
Hexachlorobenzene	<0.049		1.97	2.00		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.75		ug/L		89	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	1.96		ug/L		100	70 - 130
Isophorone	<0.098		1.97	1.93		ug/L		98	70 - 130
Lindane	<0.0098		1.97	2.14		ug/L		109	70 - 130
Malathion	<0.098		1.97	2.03		ug/L		103	70 - 130
Methoxychlor	<0.049		1.97	2.18		ug/L		111	70 - 130
Metolachlor	<0.049		1.97	2.18		ug/L		111	70 - 130
Molinate	<0.098		1.97	2.10		ug/L		107	70 - 130
Naphthalene	<0.098		1.97	1.81		ug/L		92	70 - 130
Parathion	<0.098		1.97	2.09		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	1.99		ug/L		101	70 - 130
Phenanthrene	<0.039		1.97	1.88		ug/L		95	70 - 130
Propachlor	<0.049		1.97	2.12		ug/L		107	70 - 130
Pyrene	<0.049		1.97	2.07		ug/L		105	70 - 130
Simazine	<0.049		1.97	2.19		ug/L		111	70 - 130
Terbacil	<0.098		1.97	2.25		ug/L		114	70 - 130
Terbutylazine	<0.098		1.97	2.25		ug/L		114	70 - 130
Thiobencarb	<0.098		1.97	2.10		ug/L		106	70 - 130
trans-Nonachlor	<0.049		1.97	2.13		ug/L		108	70 - 130
Trifluralin	<0.098		1.97	2.12		ug/L		108	70 - 130

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

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: 380-168205-1 MS

Matrix: Drinking Water

Analysis Batch: 171761

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 170954

Surrogate	MS %Recovery	MS Qualifier	Limits
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-168209-I-1-A DU

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
2,4'-DDD	<0.099		<0.098		ug/L		NC	20
2,4'-DDE	<0.099		<0.098		ug/L		NC	20
2,4'-DDT	<0.099		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
4,4'-DDD	<0.099		<0.098		ug/L		NC	20
4,4'-DDE	<0.099		<0.098		ug/L		NC	20
4,4'-DDT	<0.099		<0.098		ug/L		NC	20
Acenaphthene	<0.099		<0.098		ug/L		NC	20
Acenaphthylene	<0.099		<0.098		ug/L		NC	20
Acetochlor	<0.099		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.098		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	<0.099		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.099		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.098		ug/L		NC	20
Chloroneb	<0.099		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.098		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	<0.0099		<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: 380-168209-I-1-A DU

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Di-n-butyl phthalate	<0.99		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.098		ug/L		NC	20
Endrin	<0.0099		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.099		<0.098		ug/L		NC	20
EPTC	<0.099		<0.098		ug/L		NC	20
Fluoranthene	<0.099		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.099		<0.098		ug/L		NC	20
Lindane	<0.0099		<0.0098		ug/L		NC	20
Malathion	<0.099		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.099		<0.098		ug/L		NC	20
Naphthalene	<0.099		<0.098		ug/L		NC	20
Parathion	<0.099		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.098		ug/L		NC	20
Phenanthrene	<0.040		<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	<0.099		<0.098		ug/L		NC	20
Terbutylazine	<0.099		<0.098		ug/L		NC	20
Thiobencarb	<0.099		<0.098		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	<0.099		<0.098		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	93		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: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: MB 570-617934/1-A
Matrix: Water
Analysis Batch: 623413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 617934

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>08/28/25 08:30</i>	<i>09/10/25 10:00</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	78		33 - 139				08/28/25 08:30	09/10/25 10:00	1
2-Fluorobiphenyl (Surr)	79		33 - 126				08/28/25 08:30	09/10/25 10:00	1
2-Fluorophenol (Surr)	52		12 - 120				08/28/25 08:30	09/10/25 10:00	1
Nitrobenzene-d5 (Surr)	87		36 - 120				08/28/25 08:30	09/10/25 10:00	1
Phenol-d6 (Surr)	31		10 - 120				08/28/25 08:30	09/10/25 10:00	1
p-Terphenyl-d14 (Surr)	79		47 - 131				08/28/25 08:30	09/10/25 10:00	1

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

Lab Sample ID: MB 570-617934/1-A
Matrix: Water
Analysis Batch: 619301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 617934

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Acenaphthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Acenaphthylene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Anthracene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Chrysene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Fluorene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Naphthalene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Phenanthrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Pyrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	95		28 - 127			08/28/25 08:30	08/30/25 16:13	1
2-Fluorobiphenyl (Surr)	78		31 - 120			08/28/25 08:30	08/30/25 16:13	1
2-Fluorophenol (Surr)	53		17 - 120			08/28/25 08:30	08/30/25 16:13	1
Nitrobenzene-d5 (Surr)	81		27 - 120			08/28/25 08:30	08/30/25 16:13	1
Phenol-d6 (Surr)	32		10 - 120			08/28/25 08:30	08/30/25 16:13	1
p-Terphenyl-d14 (Surr)	76		45 - 120			08/28/25 08:30	08/30/25 16:13	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 570-617934/2-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.3		ug/L		82	47 - 120
2-Methylnaphthalene	20.0	16.0		ug/L		80	43 - 120
Acenaphthene	20.0	19.6		ug/L		98	60 - 132
Acenaphthylene	20.0	20.3		ug/L		102	54 - 126
Anthracene	20.0	19.4		ug/L		97	43 - 120
Benzo[a]anthracene	20.0	19.2		ug/L		96	42 - 133
Benzo[a]pyrene	20.0	20.6		ug/L		103	32 - 148
Benzo[b]fluoranthene	20.0	20.1		ug/L		101	42 - 140
Benzo[g,h,i]perylene	20.0	20.9		ug/L		104	1 - 195
Benzo[k]fluoranthene	20.0	20.4		ug/L		102	25 - 146
Chrysene	20.0	19.8		ug/L		99	44 - 140
Dibenz(a,h)anthracene	20.0	21.6		ug/L		108	1 - 200
Fluoranthene	20.0	20.2		ug/L		101	43 - 121
Fluorene	20.0	20.1		ug/L		100	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.7		ug/L		99	1 - 151
Naphthalene	20.0	16.1		ug/L		81	36 - 120
Phenanthrene	20.0	19.4		ug/L		97	65 - 120
Pyrene	20.0	19.5		ug/L		98	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	72		45 - 120

Lab Sample ID: LCSD 570-617934/3-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.7		ug/L		84	47 - 120	3	20
2-Methylnaphthalene	20.0	16.6		ug/L		83	43 - 120	4	20
Acenaphthene	20.0	20.4		ug/L		102	60 - 132	4	29
Acenaphthylene	20.0	21.1		ug/L		106	54 - 126	4	45
Anthracene	20.0	20.2		ug/L		101	43 - 120	4	40
Benzo[a]anthracene	20.0	20.4		ug/L		102	42 - 133	6	32
Benzo[a]pyrene	20.0	21.7		ug/L		108	32 - 148	5	43
Benzo[b]fluoranthene	20.0	21.3		ug/L		106	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	22.2		ug/L		111	1 - 195	6	61
Benzo[k]fluoranthene	20.0	21.0		ug/L		105	25 - 146	3	38
Chrysene	20.0	20.8		ug/L		104	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	22.7		ug/L		114	1 - 200	5	75
Fluoranthene	20.0	21.3		ug/L		106	43 - 121	5	40
Fluorene	20.0	21.0		ug/L		105	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	20.9		ug/L		104	1 - 151	6	60

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCSD 570-617934/3-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	20.0	17.1		ug/L		85	36 - 120	6	39
Phenanthrene	20.0	20.4		ug/L		102	65 - 120	5	24
Pyrene	20.0	20.7		ug/L		104	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

Lab Sample ID: 380-168205-1 MS

Matrix: Drinking Water

Analysis Batch: 619556

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	17.3		ug/L		90	36 - 120
2-Methylnaphthalene	<0.19		19.3	17.4		ug/L		90	32 - 124
Acenaphthene	<0.19		19.3	19.7		ug/L		102	47 - 145
Acenaphthylene	<0.19		19.3	20.1		ug/L		104	33 - 145
Anthracene	<0.19		19.3	19.9		ug/L		103	27 - 133
Benzo[a]anthracene	<0.19		19.3	21.2		ug/L		110	33 - 143
Benzo[a]pyrene	<0.19		19.3	17.4		ug/L		90	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	17.9		ug/L		93	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	17.4		ug/L		90	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	17.6		ug/L		91	11 - 162
Chrysene	<0.19		19.3	20.4		ug/L		106	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	17.9		ug/L		93	1 - 227
Fluoranthene	<0.19		19.3	20.5		ug/L		106	26 - 137
Fluorene	<0.19		19.3	20.6		ug/L		106	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	16.8		ug/L		87	1 - 171
Naphthalene	<0.19		19.3	16.5		ug/L		86	21 - 133
Phenanthrene	<0.19		19.3	19.5		ug/L		101	54 - 120
Pyrene	<0.19	F1	19.3	24.1	F1	ug/L		125	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: 380-168205-1 MSD

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 619556

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.6	18.3		ug/L		93	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.6	18.2		ug/L		93	32 - 124	5	30
Acenaphthene	<0.19		19.6	21.2		ug/L		108	47 - 145	7	48
Acenaphthylene	<0.19		19.6	21.8		ug/L		111	33 - 145	8	74
Anthracene	<0.19		19.6	21.9		ug/L		112	27 - 133	9	66
Benzo[a]anthracene	<0.19		19.6	22.5		ug/L		115	33 - 143	6	53
Benzo[a]pyrene	<0.19		19.6	20.5		ug/L		104	17 - 163	16	72
Benzo[b]fluoranthene	<0.19		19.6	20.5		ug/L		105	24 - 159	14	71
Benzo[g,h,i]perylene	<0.19		19.6	21.7		ug/L		110	1 - 219	22	97
Benzo[k]fluoranthene	<0.19		19.6	20.8		ug/L		106	11 - 162	17	63
Chrysene	<0.19		19.6	22.1		ug/L		112	17 - 168	8	87
Dibenz(a,h)anthracene	<0.19		19.6	22.1		ug/L		112	1 - 227	21	126
Fluoranthene	<0.19		19.6	21.9		ug/L		111	26 - 137	6	66
Fluorene	<0.19		19.6	21.7		ug/L		111	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.6	20.6		ug/L		105	1 - 171	20	99
Naphthalene	<0.19		19.6	18.1		ug/L		92	21 - 133	9	65
Phenanthrene	<0.19		19.6	21.5		ug/L		109	54 - 120	10	39
Pyrene	<0.19	F1	19.6	25.3	F1	ug/L		129	52 - 120	5	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	62		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

Lab Sample ID: MB 570-619752/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 619752

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			09/02/25 15:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134				09/02/25 15:09	1

Lab Sample ID: LCS 570-619752/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 619752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	357		ug/L		89	78 - 120

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QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 570-619752/4

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

Lab Sample ID: LCSD 570-619752/5

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)		400	365		ug/L		91	78 - 120	2	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		38 - 134

Lab Sample ID: MRL 570-619752/3

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)		10.0	8.68	J	ug/L		87	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		38 - 134

Lab Sample ID: 380-168205-1 MS

Matrix: Drinking Water

Analysis Batch: 619752

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

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	384		ug/L		96	68 - 122		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		38 - 134

Lab Sample ID: 380-168205-1 MSD

Matrix: Drinking Water

Analysis Batch: 619752

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

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	355		ug/L		89	68 - 122	8	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

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QC Sample Results

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

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

Lab Sample ID: MB 570-618766/1-A
Matrix: Water
Analysis Batch: 621987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 618766

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/29/25 09:40	09/07/25 03:44	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/29/25 09:40	09/07/25 03:44	1
C8-C18	<25		25	ug/L		08/29/25 09:40	09/07/25 03:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130			08/29/25 09:40	09/07/25 03:44	1

Lab Sample ID: LCS 570-618766/2-A
Matrix: Water
Analysis Batch: 621987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 618766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	2000	2010		ug/L		101	56 - 127	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	101		60 - 130					

Lab Sample ID: LCSD 570-618766/3-A
Matrix: Water
Analysis Batch: 621987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 618766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	2000	2130		ug/L		106	56 - 127	6	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	103		60 - 130						

Lab Sample ID: MRL 570-618766/4-A
Matrix: Water
Analysis Batch: 621987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 618766

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0221	J	mg/L		111	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	87		60 - 130					

Lab Sample ID: 380-168205-1 MS
Matrix: Drinking Water
Analysis Batch: 621987

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 618766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<25	F2	2020	2490		ug/L		123	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	119		60 - 130						

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Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Lab Sample ID: 380-168205-1 MSD				Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)								
Matrix: Drinking Water				Prep Type: Total/NA								
Analysis Batch: 621987				Prep Batch: 618766								
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
C10-C28	<25	F2	2050	1980	F2	ug/L		97	70 - 130	23	20	
Surrogate	MSD %Recovery	MSD Qualifier	Limits									
n-Octacosane (Surr)	104		60 - 130									

QC Association Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

GC/MS Semi VOA

Prep Batch: 170954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	525.2	
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP01)	Total/NA	Water	525.2	
MB 380-170954/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-170954/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-170954/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-170954/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	525.2	
380-168209-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 171761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	525.2	170954
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP01)	Total/NA	Water	525.2	170954
MB 380-170954/19-A	Method Blank	Total/NA	Water	525.2	170954
LCS 380-170954/21-A	Lab Control Sample	Total/NA	Water	525.2	170954
LCSD 380-170954/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	170954
MRL 380-170954/20-A	Lab Control Sample	Total/NA	Water	525.2	170954
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	525.2	170954
380-168209-I-1-A DU	Duplicate	Total/NA	Water	525.2	170954

Prep Batch: 617934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	625.1	
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP01)	Total/NA	Water	625.1	
MB 570-617934/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-617934/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-617934/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 619301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-617934/1-A	Method Blank	Total/NA	Water	625.1 SIM	617934
LCS 570-617934/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	617934
LCSD 570-617934/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	617934

Analysis Batch: 619556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	625.1 SIM	617934
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP01)	Total/NA	Water	625.1 SIM	617934
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	617934
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	617934

Analysis Batch: 623413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	625.1	617934
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP01)	Total/NA	Water	625.1	617934
MB 570-617934/1-A	Method Blank	Total/NA	Water	625.1	617934

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QC Association Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

GC VOA

Analysis Batch: 619752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	8015B GRO LL	
380-168205-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TPC)	Total/NA	Drinking Water	8015B GRO LL	
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP)	Total/NA	Water	8015B GRO LL	
380-168205-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF)	Total/NA	Water	8015B GRO LL	
MB 570-619752/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-619752/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-619752/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-619752/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 618766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	3510C	
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP)	Total/NA	Water	3510C	
MB 570-618766/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-618766/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-618766/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-618766/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 621987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	8015B	618766
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP)	Total/NA	Water	8015B	618766
MB 570-618766/1-A	Method Blank	Total/NA	Water	8015B	618766
LCS 570-618766/2-A	Lab Control Sample	Total/NA	Water	8015B	618766
LCSD 570-618766/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	618766
MRL 570-618766/4-A	Lab Control Sample	Total/NA	Water	8015B	618766
380-168205-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	618766
380-168205-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	618766

Lab Chronicle

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-168205-1

**Date Collected: 08/25/25 11:03
Date Received: 08/27/25 10:04**

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			170954	IQ42	EA POM	08/27/25 14:18
Total/NA	Analysis	525.2		1	171761	Q8LA	EA POM	09/01/25 12:15
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1		1	623413	PQS1	EET CAL 4	09/10/25 12:36
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1 SIM		1	619556	PQS1	EET CAL 4	09/02/25 10:04
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 19:36
Total/NA	Prep	3510C			618766	TVD6	EET CAL 4	08/29/25 09:41
Total/NA	Analysis	8015B		1	621987	H6FE	EET CAL 4	09/07/25 05:53

**Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-168205-2

**Date Collected: 08/25/25 11:03
Date Received: 08/27/25 10:04**

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 20:48

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-168205-3

**Date Collected: 08/25/25 12:16
Date Received: 08/27/25 10:04**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			170954	IQ42	EA POM	08/27/25 14:18
Total/NA	Analysis	525.2		1	171761	Q8LA	EA POM	09/01/25 12:56
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1		1	623413	PQS1	EET CAL 4	09/10/25 12:58
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1 SIM		1	619556	PQS1	EET CAL 4	09/02/25 10:26
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 21:36
Total/NA	Prep	3510C			618766	TVD6	EET CAL 4	08/29/25 09:41
Total/NA	Analysis	8015B		1	621987	H6FE	EET CAL 4	09/07/25 06:14

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-168205-4

**Date Collected: 08/25/25 12:16
Date Received: 08/27/25 10:04**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 21:12

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Accreditation/Certification Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
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	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
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	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans Nonachlor
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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation	9257304	07-31-26
	Districts		
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-168205-1
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea
Wells Pumps 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-168205-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	08/25/25 11:03	08/27/25 10:04	HI0000331
380-168205-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Drinking Water	08/25/25 11:03	08/27/25 10:04	
380-168205-3	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Water	08/25/25 12:16	08/27/25 10:04	HI0000331
380-168205-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	08/25/25 12:16	08/27/25 10:04	

Ver- 04/02/2024

Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins

Loc: 380
168205

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-246075-1		
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Maria.Lopez@et.eurofinsus.com		State of Origin: Hawaii		Page: Page 1 of 1		
Company: Eurofins Environment Testing Southwest				Accreditations Required (See note): State - Hawaii				Job #: 380-168205-1		
Address: 2841 Dow Avenue, Suite 100		Due Date Requested: 9/10/2025		Analysis Requested				Preservation Codes:		
City: Tustin		TAT Requested (days): N/A								
State, Zip: CA, 92780		PO #: N/A		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015B_DRO_LL_CS0510C_LLHNL_Ranges: C10- C24/C24-C36/C1-C18 625.1_SIM625_Prep(MOD) Extended PAH List 8015B_GRO_LL05030C(MOD) GRO 380-168205 Chain of Custody		Total Number of containers: N/A				
Phone: 714-895-5494(Tel)		WO #: N/A								
Email: N/A		Project #: 38001111								
Project Name: RED-HILL		SSOW#: N/A								
Site: Honolulu BWS Sites								Other: N/A		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (V=water, S=solid, O=organic, A=air)	Special Instructions/Note:				
				Preservation Code:						
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-1)		8/25/25	11:03 Hawaiian	G	Water		X	X	X	7 MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-1A)		8/25/25	11:03 Hawaiian	G	Water		X	X	X	4 MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-1B)		8/25/25	11:03 Hawaiian	G	Water		X	X	X	5 MRLs are needed. Confirm any hits >RL.
TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-168205-1C)		8/25/25	11:03 Hawaiian	G	Water				X	2 MRLs are needed.
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-168205-3)		8/25/25	12:16 Hawaiian	G	Water		X	X	X	7 MRLs are needed. Confirm any hits >RL.
TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-168205-3A)		8/25/25	12:16 Hawaiian	G	Water				X	2 MRLs are needed.
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:				
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:			
Relinquished by: <i>Mark Kurat</i>			Date/Time: <i>8/27/25 1505</i>		Company: <i>EEAP</i>		Received by: <i>2/4</i>		Date/Time: <i>8-27-25 1506</i>	
Relinquished by: <i>1/4</i>			Date/Time: <i>8-27-25 1614</i>		Company: <i>WLP</i>		Received by: <i>Julius</i>		Date/Time: <i>8/27/25 1614</i>	
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No			Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2.0 / 2.0 In 92</i>					

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168205-1

SDG Number: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea Wells Pumps 1&2 P2

Login Number: 168205

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Segura, Ryan

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168205-1

SDG Number: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD)/Aiea Wells Pumps 1&2 P2

Login Number: 168205

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/27/25 06:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
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	