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# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

Generated 11/26/2025 8:04:53 AM

## 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

380-181052-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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# Definitions/Glossary

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

Job ID: 380-181052-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

## Qualifiers

### GC/MS Semi VOA

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

### GC/MS Semi VOA TICs

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

### GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

## Glossary

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

# Case Narrative

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

Job ID: 380-181052-1

**Job ID: 380-181052-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-181052-1

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 11/5/2025 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.2°C, 2.4°C and 2.7°C.

### GC/MS Semi VOA

Method 625.1\_SIM: There is no LCSD for this PB: 652517 due to it being lost during concentration. The LCS is passing. The PB has a MS/MSD and is passing. The MS/MSD will be used for precision (RPD). Data has been reported. (LCS 570-652517/2-A)

Method 525.2\_PREC: Sample AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) (380-181052-2) is a follow up sample for Job # 380-179754-3 (Aiea Wells Pumps 1 & 2 (260) collected on 10/27/25. (XWB4)

AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) (380-181052-2)

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

### Gasoline Range Organics

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

### Diesel Range Organics

Method 8015B\_DRO\_LL\_CS: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-181052-1[MS]) and HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-181052-1[MSD]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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: 380-181052-1  
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)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-181052-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.034		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		0.0098	ug/L	1		525.2	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2  
(331-203-TP400)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-181052-2**

No Detections.

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

**Lab Sample ID: 380-181052-3**

No Detections.

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

**Lab Sample ID: 380-181052-4**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-1**

**Date Collected: 11/03/25 10:27**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:55**

**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		11/06/25 14:15	11/07/25 15:18	1
2,4'-DDD	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
2,4'-DDE	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
2,4' DDT	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
2-Methylnaphthalene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
4,4'-DDD	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
4,4'-DDE	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
4,4'-DDT	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Acenaphthene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Acenaphthylene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Acetochlor	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Alachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
alpha-BHC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
alpha-Chlordane	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Anthracene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:18	1
Atrazine	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Benz(a)anthracene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Benzo[a]pyrene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:18	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:18	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:18	1
beta-BHC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		11/06/25 14:15	11/07/25 15:18	1
Bromacil	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Butachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Butylbenzylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 15:18	1
Chlorobenzilate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Chloroneb	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Chlorpyrifos	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Chrysene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:18	1
delta-BHC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		11/06/25 14:15	11/07/25 15:18	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
<b>Dieldrin</b>	<b>0.034</b>		0.0098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Diethylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 15:18	1
Dimethylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 15:18	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		11/06/25 14:15	11/07/25 15:18	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Endosulfan sulfate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Endrin	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Endrin aldehyde	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1

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# Client Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-1**

**Date Collected: 11/03/25 10:27**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:55**

**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		11/06/25 14:15	11/07/25 15:18	1
Fluoranthene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Fluorene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
gamma-Chlordane	0.049		0.049	ug/L		11/06/25 14 15	11/07/25 15 18	1
Heptachlor	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 15:18	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.014</b>		0.0098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Hexachlorobenzene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Isophorone	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Lindane	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Malathion	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Methoxychlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Metolachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Molinate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Naphthalene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Parathion	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Phenanthrene	<0.039		0.039	ug/L		11/06/25 14:15	11/07/25 15:18	1
Propachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Pyrene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Simazine	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Terbacil	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Terbutylazine	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Thiobencarb	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		11/06/25 14:15	11/07/25 15:18	1
trans-Nonachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:18	1
Trifluralin	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 15:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/06/25 14:15	11/07/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	11/06/25 14:15	11/07/25 15:18	1
Perylene-d12	95		70 - 130	11/06/25 14:15	11/07/25 15:18	1
Triphenylphosphate	95		70 - 130	11/06/25 14:15	11/07/25 15:18	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		11/07/25 05:00	11/19/25 23:02	1
2-Methylnaphthalene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Acenaphthene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Acenaphthylene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Anthracene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Benzo[a]anthracene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Benzo[a]pyrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-1**

**Date Collected: 11/03/25 10:27**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:55**

**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		11/07/25 05:00	11/19/25 23:02	1
Chrysene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Fluoranthene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Fluorene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Naphthalene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Phenanthrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1
Pyrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		28 - 127	11/07/25 05:00	11/19/25 23:02	1
2-Fluorobiphenyl (Surr)	77		31 - 120	11/07/25 05:00	11/19/25 23:02	1
2-Fluorophenol (Surr)	48		17 - 120	11/07/25 05:00	11/19/25 23:02	1
Nitrobenzene-d5 (Surr)	77		27 - 120	11/07/25 05:00	11/19/25 23:02	1
Phenol-d6 (Surr)	31		10 - 120	11/07/25 05:00	11/19/25 23:02	1
p-Terphenyl-d14 (Surr)	93		45 - 120	11/07/25 05:00	11/19/25 23:02	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	5.0	T J N	ug/L		9.96	10544-50-0	11/07/25 05:00	11/20/25 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		33 - 139	11/07/25 05:00	11/20/25 11:27	1
2-Fluorobiphenyl (Surr)	92		33 - 126	11/07/25 05:00	11/20/25 11:27	1
2-Fluorophenol (Surr)	49		12 - 120	11/07/25 05:00	11/20/25 11:27	1
Nitrobenzene-d5 (Surr)	82		36 - 120	11/07/25 05:00	11/20/25 11:27	1
Phenol-d6 (Surr)	29		10 - 120	11/07/25 05:00	11/20/25 11:27	1
p-Terphenyl-d14 (Surr)	89		47 - 131	11/07/25 05:00	11/20/25 11:27	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			11/08/25 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		11/08/25 18:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		11/09/25 11:05	11/17/25 23:22	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		11/09/25 11:05	11/17/25 23:22	1
C8-C18	<26		26	ug/L		11/09/25 11:05	11/17/25 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	120		60 - 130	11/09/25 11:05	11/17/25 23:22	1

# Client Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-2**

**Date Collected: 11/03/25 11:38**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:55**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
2,4'-DDD	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
2,4'-DDE	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
2,4' DDT	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
2-Methylnaphthalene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
4,4'-DDD	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
4,4'-DDE	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
4,4'-DDT	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Acenaphthene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Acenaphthylene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Acetochlor	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Alachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
alpha-BHC	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
alpha-Chlordane	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Anthracene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:59	1
Atrazine	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Benz(a)anthracene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Benzo[a]pyrene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:59	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:59	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:59	1
beta-BHC	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		11/06/25 14:15	11/07/25 15:59	1
Bromacil	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Butachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Butylbenzylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 15:59	1
Chlorobenzilate	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Chloroneb	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Chlorpyrifos	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Chrysene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 15:59	1
delta-BHC	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		11/06/25 14:15	11/07/25 15:59	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Dieldrin	<0.0099		0.0099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Diethylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 15:59	1
Dimethylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 15:59	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		11/06/25 14:15	11/07/25 15:59	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Endosulfan sulfate	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Endrin	<0.0099		0.0099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Endrin aldehyde	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1

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# Client Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-2**

**Date Collected: 11/03/25 11:38**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:55**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Fluoranthene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Fluorene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
gamma-Chlordane	0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Heptachlor	<0.0099		0.0099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Hexachlorobenzene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Isophorone	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Lindane	<0.0099		0.0099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Malathion	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Methoxychlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Metolachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Molinate	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Naphthalene	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Parathion	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Phenanthrene	<0.040		0.040	ug/L		11/06/25 14:15	11/07/25 15:59	1
Propachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Pyrene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Simazine	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Terbacil	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Terbutylazine	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Thiobencarb	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		11/06/25 14:15	11/07/25 15:59	1
trans-Nonachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 15:59	1
Trifluralin	<0.099		0.099	ug/L		11/06/25 14:15	11/07/25 15:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/06/25 14:15	11/07/25 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	11/06/25 14:15	11/07/25 15:59	1
Perylene-d12	98		70 - 130	11/06/25 14:15	11/07/25 15:59	1
Triphenylphosphate	94		70 - 130	11/06/25 14:15	11/07/25 15:59	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		11/07/25 05:00	11/19/25 23:24	1
2-Methylnaphthalene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Acenaphthene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Acenaphthylene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Anthracene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Benzo[a]anthracene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Benzo[a]pyrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1

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# Client Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-2**

**Date Collected: 11/03/25 11:38**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:55**

**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		11/07/25 05:00	11/19/25 23:24	1
Chrysene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Fluoranthene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Fluorene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Naphthalene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Phenanthrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1
Pyrene	<0.19		0.19	ug/L		11/07/25 05:00	11/19/25 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		28 - 127	11/07/25 05:00	11/19/25 23:24	1
2-Fluorobiphenyl (Surr)	79		31 - 120	11/07/25 05:00	11/19/25 23:24	1
2-Fluorophenol (Surr)	51		17 - 120	11/07/25 05:00	11/19/25 23:24	1
Nitrobenzene-d5 (Surr)	80		27 - 120	11/07/25 05:00	11/19/25 23:24	1
Phenol-d6 (Surr)	33		10 - 120	11/07/25 05:00	11/19/25 23:24	1
p-Terphenyl-d14 (Surr)	96		45 - 120	11/07/25 05:00	11/19/25 23:24	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	11	T J N	ug/L		9.96	10544-50-0	11/07/25 05:00	11/20/25 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	11/07/25 05:00	11/20/25 11:51	1
2-Fluorobiphenyl (Surr)	90		33 - 126	11/07/25 05:00	11/20/25 11:51	1
2-Fluorophenol (Surr)	50		12 - 120	11/07/25 05:00	11/20/25 11:51	1
Nitrobenzene-d5 (Surr)	83		36 - 120	11/07/25 05:00	11/20/25 11:51	1
Phenol-d6 (Surr)	31		10 - 120	11/07/25 05:00	11/20/25 11:51	1
p-Terphenyl-d14 (Surr)	91		47 - 131	11/07/25 05:00	11/20/25 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			11/08/25 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		11/08/25 22:13	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		11/09/25 11:05	11/17/25 23:01	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		11/09/25 11:05	11/17/25 23:01	1
C8-C18	<25		25	ug/L		11/09/25 11:05	11/17/25 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		60 - 130	11/09/25 11:05	11/17/25 23:01	1

# Client Sample Results

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

Job ID: 380-181052-1  
 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: 380-181052-3**

Date Collected: 11/03/25 10:27  
 Date Received: 11/05/25 09:55

Matrix: Water

**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			11/08/25 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134				11/08/25 20:45	1

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

**Lab Sample ID: 380-181052-4**

Date Collected: 11/03/25 11:38  
 Date Received: 11/05/25 09:55

Matrix: Water

**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			11/08/25 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134				11/08/25 21:07	1

# Action Limit Summary

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

Job ID: 380-181052-1  
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)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-181052-1**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		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)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-181052-2**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	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	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-181052-1  
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)
380-181052-1	HALAWA WELLS UNITS 1 & 2 F	95	95	95
380-181052-1 DU	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	95	92	97
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	96	98	94

**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)
380-181047-I-1-A MS	Matrix Spike	94	97	101
LCS 380-184888/22-A	Lab Control Sample	96	98	100
MB 380-184888/20-A	Method Blank	95	89	97
MRL 380-184888/21-A	Lab Control Sample	95	96	94

**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)
380-181052-1	HALAWA WELLS UNITS 1 & 2 F	76	92	49	82	29	89
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	79	90	50	83	31	91

**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)
MB 570-652517/1-A	Method Blank	100	108	67	105	39	99

Eurofins Eaton Analytical Pomona

# Surrogate Summary

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

Job ID: 380-181052-1  
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)
380-181052-1	HALAWA WELLS UNITS 1 & 2 F	92	77	48	77	31	93
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	96	86	65	72	43	94
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	92	82	64	72	42	94
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	95	79	51	80	33	96

## 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)
LCS 570-652517/2-A	Lab Control Sample	94	86	58	71	38	95
MB 570-652517/1-A	Method Blank	99	86	59	87	38	98

## 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)
380-181052-1	HALAWA WELLS UNITS 1 & 2 F	95
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	98
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	94

# Surrogate Summary

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

Job ID: 380-181052-1  
 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)
380-181052-2	AIEA WELLS PUMPS 1&2 (260)	95

**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)
380-181052-3	TB: HALAWA WELLS UNITS 1&	94
380-181052-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	98
LCS 570-653207/4	Lab Control Sample	92
LCSD 570-653207/5	Lab Control Sample Dup	98
MB 570-653207/6	Method Blank	95
MRL 570-653207/3	Lab Control Sample	91

**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)
380-181052-1	HALAWA WELLS UNITS 1 & 2 F	120
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	132 S1+
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	134 S1+
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	127

**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)
LCS 570-653516/2-A	Lab Control Sample	115
LCSD 570-653516/3-A	Lab Control Sample Dup	102
MB 570-653516/1-A	Method Blank	94
MRL 570-653516/4-A	Lab Control Sample	88

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-181052-1  
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 380-184888/20-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
2,4'-DDD	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
2,4'-DDE	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
2,4'-DDT	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
2-Methylnaphthalene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
4,4'-DDD	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
4,4'-DDE	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
4,4'-DDT	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Acenaphthene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Acenaphthylene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Acetochlor	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Alachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
alpha-BHC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
alpha-Chlordane	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Anthracene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 13:37	1
Atrazine	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Benz(a)anthracene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Benzo[a]pyrene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 13:37	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 13:37	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 13:37	1
beta-BHC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		11/06/25 14:15	11/07/25 13:37	1
Bromacil	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Butachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Butylbenzylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 13:37	1
Chlorobenzilate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Chloroneb	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Chlorpyrifos	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Chrysene	<0.020		0.020	ug/L		11/06/25 14:15	11/07/25 13:37	1
delta-BHC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		11/06/25 14:15	11/07/25 13:37	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Dieldrin	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Diethylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 13:37	1
Dimethylphthalate	<0.49		0.49	ug/L		11/06/25 14:15	11/07/25 13:37	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		11/06/25 14:15	11/07/25 13:37	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Endosulfan sulfate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Endrin	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Endrin aldehyde	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1

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# QC Sample Results

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

Job ID: 380-181052-1  
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 380-184888/20-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Fluoranthene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Fluorene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
gamma-Chlordane	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Heptachlor	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Hexachlorobenzene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Isophorone	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Lindane	<0.0098		0.0098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Malathion	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Methoxychlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Metolachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Molinate	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Naphthalene	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Parathion	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Phenanthrene	<0.039		0.039	ug/L		11/06/25 14:15	11/07/25 13:37	1
Propachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Pyrene	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Simazine	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Terbacil	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Terbutylazine	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Thiobencarb	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		11/06/25 14:15	11/07/25 13:37	1
trans-Nonachlor	<0.049		0.049	ug/L		11/06/25 14:15	11/07/25 13:37	1
Trifluralin	<0.098		0.098	ug/L		11/06/25 14:15	11/07/25 13:37	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Cyclopentene, 1,2,3,4,5-pentamethyl-</i>	0.912	T J N	ug/L		2.63	1000154-28-6	11/06/25 14:15	11/07/25 13:37	1
<i>Bacchotricuneatin c</i>	0.735	T J N	ug/L		3.10	66563-30-2	11/06/25 14:15	11/07/25 13:37	1
<i>Undecane</i>	2.78	T J N	ug/L		3.22	1120-21-4	11/06/25 14:15	11/07/25 13:37	1
<i>Cyclopentasiloxane, decamethyl-</i>	0.538	T J N	ug/L		3.36	541-02-6	11/06/25 14:15	11/07/25 13:37	1
<i>n-Hexadecanoic acid</i>	0.581	T J N	ug/L		6.35	57-10-3	11/06/25 14:15	11/07/25 13:37	1
<i>9-Octadecenamamide, (Z)-</i>	1.92	T J N	ug/L		8.16	301-02-0	11/06/25 14:15	11/07/25 13:37	1
<i>Unknown</i>	0.520	T J	ug/L		15.50	N/A	11/06/25 14:15	11/07/25 13:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	11/06/25 14:15	11/07/25 13:37	1
Perylene-d12	89		70 - 130	11/06/25 14:15	11/07/25 13:37	1
Triphenylphosphate	97		70 - 130	11/06/25 14:15	11/07/25 13:37	1

# QC Sample Results

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

Job ID: 380-181052-1  
 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 380-184888/22-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	2.14		ug/L		109	70 - 130
2,4'-DDD	1.96	2.18		ug/L		111	70 - 130
2,4'-DDE	1.96	2.15		ug/L		110	70 - 130
2,4'-DDT	1.96	2.06		ug/L		105	70 - 130
2,4-Dinitrotoluene	1.96	1.75		ug/L		89	70 - 130
2,6-Dinitrotoluene	1.96	1.95		ug/L		99	70 - 130
2-Methylnaphthalene	1.96	2.16		ug/L		110	70 - 130
4,4'-DDD	1.96	2.20		ug/L		112	70 - 130
4,4'-DDE	1.96	1.76		ug/L		90	70 - 130
4,4'-DDT	1.96	2.13		ug/L		109	70 - 130
Acenaphthene	1.96	2.01		ug/L		102	70 - 130
Acenaphthylene	1.96	1.94		ug/L		99	70 - 130
Acetochlor	1.96	1.97		ug/L		100	70 - 130
Alachlor	1.96	1.88		ug/L		96	70 - 130
alpha-BHC	1.96	1.93		ug/L		98	70 - 130
alpha-Chlordane	1.96	2.07		ug/L		105	70 - 130
Anthracene	1.96	1.72		ug/L		88	70 - 130
Atrazine	1.96	2.28		ug/L		116	70 - 130
Benz(a)anthracene	1.96	2.10		ug/L		107	70 - 130
Benzo[a]pyrene	1.96	2.01		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.96	2.31		ug/L		118	70 - 130
Benzo[g,h,i]perylene	1.96	2.24		ug/L		114	70 - 130
Benzo[k]fluoranthene	1.96	2.11		ug/L		108	70 - 130
beta-BHC	1.96	1.91		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.85		ug/L		94	70 - 130
Bromacil	1.96	1.63		ug/L		83	70 - 130
Butachlor	1.96	1.99		ug/L		101	70 - 130
Butylbenzylphthalate	1.96	2.16		ug/L		110	70 - 130
Chlorobenzilate	1.96	2.01		ug/L		102	70 - 130
Chloroneb	1.96	2.01		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.29		ug/L		117	70 - 130
Chlorpyrifos	1.96	1.94		ug/L		99	70 - 130
Chrysene	1.96	1.91		ug/L		97	70 - 130
delta-BHC	1.96	1.85		ug/L		94	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.29		ug/L		117	70 - 130
Dibenz(a,h)anthracene	1.96	2.25		ug/L		114	70 - 130
Diclorvos (DDVP)	1.96	2.10		ug/L		107	70 - 130
Dieldrin	1.96	2.18		ug/L		111	70 - 130
Diethylphthalate	1.96	2.17		ug/L		111	70 - 130
Dimethylphthalate	1.96	2.06		ug/L		105	70 - 130
Di-n-butyl phthalate	3.93	4.49		ug/L		114	70 - 130
Di-n-octyl phthalate	1.96	1.88		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.96	1.79		ug/L		91	70 - 130
Endosulfan II (Beta)	1.96	1.77		ug/L		90	70 - 130
Endosulfan sulfate	1.96	2.24		ug/L		114	70 - 130
Endrin	1.96	2.32		ug/L		118	70 - 130
Endrin aldehyde	1.96	1.64		ug/L		83	60 - 130

# QC Sample Results

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

Job ID: 380-181052-1  
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 380-184888/22-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
EPTC	1.96	2.11		ug/L		108	70 - 130
Fluoranthene	1.96	1.92		ug/L		98	70 - 130
Fluorene	1.96	2.13		ug/L		109	70 - 130
gamma-Chlordane	1.96	2.07		ug/L		106	70 - 130
Heptachlor	1.96	2.13		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	1.96	1.63		ug/L		83	70 - 130
Hexachlorobenzene	1.96	2.11		ug/L		108	70 - 130
Hexachlorocyclopentadiene	1.96	2.23		ug/L		114	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.24		ug/L		114	70 - 130
Isophorone	1.96	1.77		ug/L		90	70 - 130
Lindane	1.96	2.15		ug/L		110	70 - 130
Malathion	1.96	1.92		ug/L		98	70 - 130
Methoxychlor	1.96	1.74		ug/L		89	70 - 130
Metolachlor	1.96	2.01		ug/L		102	70 - 130
Molinate	1.96	2.10		ug/L		107	70 - 130
Naphthalene	1.96	2.13		ug/L		108	70 - 130
Parathion	1.96	2.16		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	1.96	2.12		ug/L		108	70 - 130
Phenanthrene	1.96	1.89		ug/L		96	70 - 130
Propachlor	1.96	2.23		ug/L		113	70 - 130
Pyrene	1.96	2.00		ug/L		102	70 - 130
Simazine	1.96	2.09		ug/L		106	70 - 130
Terbacil	1.96	2.04		ug/L		104	70 - 130
Terbutylazine	1.96	2.21		ug/L		113	70 - 130
Thiobencarb	1.96	2.14		ug/L		109	70 - 130
trans-Nonachlor	1.96	2.02		ug/L		103	70 - 130
Trifluralin	1.96	1.94		ug/L		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	100		70 - 130

**Lab Sample ID: MRL 380-184888/21-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.122		ug/L		124	50 - 150
2,4'-DDD	0.0983	0.0854	J	ug/L		87	50 - 150
2,4'-DDE	0.0983	0.102		ug/L		104	50 - 150
2,4'-DDT	0.0983	0.109		ug/L		111	50 - 150
2,4-Dinitrotoluene	0.0983	0.108		ug/L		110	50 - 150
2,6-Dinitrotoluene	0.0983	0.127		ug/L		129	50 - 150
2-Methylnaphthalene	0.0983	0.116		ug/L		118	50 - 150
4,4'-DDD	0.0983	0.0991		ug/L		101	50 - 150
4,4'-DDE	0.0983	0.111		ug/L		113	50 - 150

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# QC Sample Results

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

Job ID: 380-181052-1  
 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 380-184888/21-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	0.0983	0.115		ug/L		117	50 - 150
Acenaphthene	0.0983	0.0988		ug/L		100	50 - 150
Acenaphthylene	0.0983	0.0936	J	ug/L		95	50 - 150
Acetochlor	0.0983	0.130		ug/L		132	50 - 150
Alachlor	0.0492	0.0638		ug/L		130	50 - 150
alpha-BHC	0.0983	0.0937	J	ug/L		95	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		104	50 - 150
Anthracene	0.0197	0.0208		ug/L		106	50 - 150
Atrazine	0.0492	0.0479	J	ug/L		98	50 - 150
Benz(a)anthracene	0.0492	0.0536		ug/L		109	50 - 150
Benzo[a]pyrene	0.0197	0.0219		ug/L		111	50 - 150
Benzo[b]fluoranthene	0.0197	0.0198	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0575		ug/L		117	50 - 150
Benzo[k]fluoranthene	0.0197	<0.017		ug/L		85	50 - 150
beta-BHC	0.0983	0.0983		ug/L		100	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.610		ug/L		103	50 - 150
Bromacil	0.0983	0.108		ug/L		110	50 - 150
Butachlor	0.0492	0.0737		ug/L		150	50 - 150
Butylbenzylphthalate	0.492	0.578		ug/L		118	50 - 150
Chlorobenzilate	0.0983	0.123		ug/L		125	50 - 150
Chloroneb	0.0983	0.0875	J	ug/L		89	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.107		ug/L		109	50 - 150
Chlorpyrifos	0.0492	0.0548		ug/L		111	50 - 150
Chrysene	0.0197	0.0187	J	ug/L		95	50 - 150
delta-BHC	0.0983	0.0977	J	ug/L		99	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.684		ug/L		116	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0582		ug/L		118	50 - 150
Diclorvos (DDVP)	0.0492	0.0548		ug/L		112	50 - 150
Dieldrin	0.00983	0.00966	J	ug/L		98	50 - 150
Diethylphthalate	0.492	0.556		ug/L		113	50 - 150
Dimethylphthalate	0.492	0.518		ug/L		105	50 - 150
Di-n-butyl phthalate	0.492	0.508	J	ug/L		103	49 - 243
Di-n-octyl phthalate	0.0983	0.113		ug/L		115	50 - 150
Endosulfan I (Alpha)	0.0983	0.0876	J	ug/L		89	50 - 150
Endosulfan II (Beta)	0.0983	0.0946	J	ug/L		96	50 - 150
Endosulfan sulfate	0.0983	0.115		ug/L		117	50 - 150
Endrin	0.00983	0.0106		ug/L		108	50 - 150
Endrin aldehyde	0.0983	0.115		ug/L		117	50 - 150
EPTC	0.0983	0.114		ug/L		116	50 - 150
Fluoranthene	0.0983	0.101		ug/L		103	50 - 150
Fluorene	0.0492	0.0546		ug/L		111	50 - 150
gamma-Chlordane	0.0246	0.0248	J	ug/L		101	50 - 150
Heptachlor	0.00983	0.0141		ug/L		143	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.0129		ug/L		131	50 - 150
Hexachlorobenzene	0.0492	0.0561		ug/L		114	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0466	J	ug/L		95	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0591		ug/L		120	50 - 150
Isophorone	0.0983	0.108		ug/L		110	50 - 150

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# QC Sample Results

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

Job ID: 380-181052-1  
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 380-184888/21-A**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Lindane	0.00983	0.0114		ug/L		116	50 - 150
Malathion	0.0983	0.112		ug/L		114	50 - 150
Methoxychlor	0.0492	0.0730		ug/L		149	50 - 150
Metolachlor	0.0492	0.0649		ug/L		132	50 - 150
Molinate	0.0983	0.115		ug/L		117	50 - 150
Naphthalene	0.0983	0.117		ug/L		119	50 - 150
Parathion	0.0983	0.100		ug/L		102	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.102		ug/L		104	50 - 150
Phenanthrene	0.0393	0.0417		ug/L		106	50 - 150
Propachlor	0.0492	0.0669		ug/L		136	50 - 150
Pyrene	0.0492	0.0583		ug/L		119	50 - 150
Simazine	0.0492	0.0448	J	ug/L		91	50 - 150
Terbacil	0.0983	0.108		ug/L		109	50 - 150
Terbutylazine	0.0983	0.103		ug/L		105	50 - 150
Thiobencarb	0.0983	0.106		ug/L		108	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		85	50 - 150
Trifluralin	0.0983	0.116		ug/L		118	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	94		70 - 130

**Lab Sample ID: 380-181047-I-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.99	2.12		ug/L		107	70 - 130
2,4'-DDD	<0.098		1.99	2.20		ug/L		111	70 - 130
2,4'-DDE	<0.098		1.99	2.16		ug/L		109	70 - 130
2,4'-DDT	<0.098		1.99	2.11		ug/L		106	70 - 130
2,4-Dinitrotoluene	<0.098		1.99	1.86		ug/L		93	70 - 130
2,6-Dinitrotoluene	<0.098		1.99	2.05		ug/L		103	70 - 130
2-Methylnaphthalene	<0.098		1.99	2.13		ug/L		107	70 - 130
4,4'-DDD	<0.098		1.99	2.24		ug/L		113	70 - 130
4,4'-DDE	<0.098		1.99	1.80		ug/L		91	70 - 130
4,4'-DDT	<0.098		1.99	2.19		ug/L		110	70 - 130
Acenaphthene	<0.098		1.99	2.03		ug/L		102	70 - 130
Acenaphthylene	<0.098		1.99	2.04		ug/L		103	70 - 130
Acetochlor	<0.098		1.99	1.96		ug/L		98	70 - 130
Alachlor	<0.049		1.99	1.90		ug/L		96	70 - 130
alpha-BHC	<0.098		1.99	1.89		ug/L		95	70 - 130
alpha-Chlordane	<0.049		1.99	2.04		ug/L		103	70 - 130
Anthracene	<0.020		1.99	1.53		ug/L		77	70 - 130
Atrazine	<0.049		1.99	2.31		ug/L		116	70 - 130
Benz(a)anthracene	<0.049		1.99	2.10		ug/L		106	70 - 130

# QC Sample Results

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

Job ID: 380-181052-1  
 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: 380-181047-I-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzo[a]pyrene	<0.020		1.99	1.95		ug/L		98	70 - 130
Benzo[b]fluoranthene	<0.020		1.99	2.23		ug/L		112	70 - 130
Benzo[g,h,i]perylene	<0.049		1.99	2.24		ug/L		113	70 - 130
Benzo[k]fluoranthene	<0.020		1.99	2.18		ug/L		110	70 - 130
beta-BHC	<0.098		1.99	1.93		ug/L		97	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.99	1.84		ug/L		93	70 - 130
Bromacil	<0.098		1.99	1.69		ug/L		85	70 - 130
Butachlor	<0.049		1.99	2.00		ug/L		101	70 - 130
Butylbenzylphthalate	<0.49		1.99	2.16		ug/L		109	70 - 130
Chlorobenzilate	<0.098		1.99	2.04		ug/L		103	70 - 130
Chloroneb	<0.098		1.99	1.98		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.99	2.27		ug/L		114	70 - 130
Chlorpyrifos	<0.049		1.99	1.97		ug/L		99	70 - 130
Chrysene	<0.020		1.99	1.93		ug/L		97	70 - 130
delta-BHC	<0.098		1.99	1.82		ug/L		92	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.99	2.31		ug/L		116	70 - 130
Dibenz(a,h)anthracene	<0.049		1.99	2.24		ug/L		113	70 - 130
Diclorvos (DDVP)	<0.049		1.99	2.15		ug/L		108	70 - 130
Dieldrin	<0.0098		1.99	2.21		ug/L		111	70 - 130
Diethylphthalate	<0.49		1.99	2.11		ug/L		106	70 - 130
Dimethylphthalate	<0.49		1.99	2.01		ug/L		101	70 - 130
Di-n-butyl phthalate	<0.98		3.97	4.44		ug/L		112	70 - 130
Di-n-octyl phthalate	<0.098		1.99	1.87		ug/L		94	70 - 130
Endosulfan I (Alpha)	<0.098		1.99	1.79		ug/L		90	70 - 130
Endosulfan II (Beta)	<0.098		1.99	1.79		ug/L		90	70 - 130
Endosulfan sulfate	<0.098		1.99	2.20		ug/L		111	70 - 130
Endrin	<0.0098		1.99	2.30		ug/L		116	70 - 130
Endrin aldehyde	<0.098		1.99	1.40		ug/L		71	60 - 130
EPTC	<0.098		1.99	2.09		ug/L		105	70 - 130
Fluoranthene	<0.098		1.99	1.97		ug/L		99	70 - 130
Fluorene	<0.049		1.99	2.15		ug/L		108	70 - 130
gamma-Chlordane	<0.049		1.99	2.02		ug/L		102	70 - 130
Heptachlor	<0.0098		1.99	2.14		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.99	1.68		ug/L		84	70 - 130
Hexachlorobenzene	<0.049		1.99	2.11		ug/L		106	70 - 130
Hexachlorocyclopentadiene	<0.049		1.99	2.32		ug/L		117	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.99	2.26		ug/L		114	70 - 130
Isophorone	<0.098		1.99	1.79		ug/L		90	70 - 130
Lindane	<0.0098		1.99	2.13		ug/L		107	70 - 130
Malathion	<0.098		1.99	1.96		ug/L		99	70 - 130
Methoxychlor	<0.049		1.99	1.78		ug/L		90	70 - 130
Metolachlor	<0.049		1.99	2.00		ug/L		100	70 - 130
Molinate	<0.098		1.99	2.10		ug/L		106	70 - 130
Naphthalene	<0.098		1.99	2.13		ug/L		107	70 - 130
Parathion	<0.098		1.99	2.22		ug/L		112	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.99	2.26		ug/L		114	70 - 130
Phenanthrene	<0.039		1.99	1.90		ug/L		96	70 - 130
Propachlor	<0.049		1.99	2.21		ug/L		111	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-181052-1  
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: 380-181047-I-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 185110**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Pyrene	<0.049		1.99	2.01		ug/L		101	70 - 130	
Simazine	<0.049		1.99	2.04		ug/L		103	70 - 130	
Terbacil	<0.098		1.99	2.05		ug/L		103	70 - 130	
Terbutylazine	<0.098		1.99	2.24		ug/L		113	70 - 130	
Thiobencarb	<0.098		1.99	2.16		ug/L		109	70 - 130	
trans-Nonachlor	<0.049		1.99	2.10		ug/L		105	70 - 130	
Trifluralin	<0.098		1.99	2.02		ug/L		102	70 - 130	
		<b>MS</b>	<b>MS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
2-Nitro-m-xylene	94		70 - 130							
Perylene-d12	97		70 - 130							
Triphenylphosphate	101		70 - 130							

**Lab Sample ID: 380-181052-1 DU**  
**Matrix: Drinking Water**  
**Analysis Batch: 185110**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
2,4'-DDD	<0.098		<0.099		ug/L		NC	20
2,4'-DDE	<0.098		<0.099		ug/L		NC	20
2,4'-DDT	<0.098		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
4,4'-DDD	<0.098		<0.099		ug/L		NC	20
4,4'-DDE	<0.098		<0.099		ug/L		NC	20
4,4'-DDT	<0.098		<0.099		ug/L		NC	20
Acenaphthene	<0.098		<0.099		ug/L		NC	20
Acenaphthylene	<0.098		<0.099		ug/L		NC	20
Acetochlor	<0.098		<0.099		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.099		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.099		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.099		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-1 DU**  
**Matrix: Drinking Water**  
**Analysis Batch: 185110**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chloroneb	<0.098		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.099		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.034		0.0365		ug/L		6	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.099		ug/L		NC	20
Endrin	<0.0098		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.098		<0.099		ug/L		NC	20
EPTC	<0.098		<0.099		ug/L		NC	20
Fluoranthene	<0.098		<0.099		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.014		0.0125		ug/L		8	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.099		ug/L		NC	20
Lindane	<0.0098		<0.0099		ug/L		NC	20
Malathion	<0.098		<0.099		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.099		ug/L		NC	20
Naphthalene	<0.098		<0.099		ug/L		NC	20
Parathion	<0.098		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.099		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.099		ug/L		NC	20
Terbutylazine	<0.098		<0.099		ug/L		NC	20
Thiobencarb	<0.098		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.099		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-181052-1  
 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: 380-181052-1 DU**  
**Matrix: Drinking Water**  
**Analysis Batch: 185110**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 184888**

Surrogate	%Recovery	DU DU Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	97		70 - 130

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

**Lab Sample ID: MB 570-652517/1-A**  
**Matrix: Water**  
**Analysis Batch: 659204**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Tentatively Identified Compound	Est. Result	MB MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/07/25 05:00	11/20/25 10:38	1

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		33 - 139	11/07/25 05:00	11/20/25 10:38	1
2-Fluorobiphenyl (Surr)	108		33 - 126	11/07/25 05:00	11/20/25 10:38	1
2-Fluorophenol (Surr)	67		12 - 120	11/07/25 05:00	11/20/25 10:38	1
Nitrobenzene-d5 (Surr)	105		36 - 120	11/07/25 05:00	11/20/25 10:38	1
Phenol-d6 (Surr)	39		10 - 120	11/07/25 05:00	11/20/25 10:38	1
p-Terphenyl-d14 (Surr)	99		47 - 131	11/07/25 05:00	11/20/25 10:38	1

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

**Lab Sample ID: MB 570-652517/1-A**  
**Matrix: Water**  
**Analysis Batch: 658616**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Analyte	MB MB Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
2-Methylnaphthalene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Acenaphthene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Acenaphthylene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Anthracene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Benzo[a]anthracene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Benzo[a]pyrene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Chrysene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Fluoranthene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Fluorene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Naphthalene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Phenanthrene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1
Pyrene	<0.20		0.20	ug/L		11/07/25 05:00	11/19/25 21:32	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-181052-1  
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: MB 570-652517/1-A**  
**Matrix: Water**  
**Analysis Batch: 658616**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Surrogate	MB MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)		99		28 - 127	11/07/25 05:00	11/19/25 21:32	1
2-Fluorobiphenyl (Surr)		86		31 - 120	11/07/25 05:00	11/19/25 21:32	1
2-Fluorophenol (Surr)		59		17 - 120	11/07/25 05:00	11/19/25 21:32	1
Nitrobenzene-d5 (Surr)		87		27 - 120	11/07/25 05 00	11/19/25 21 32	1
Phenol-d6 (Surr)		38		10 - 120	11/07/25 05:00	11/19/25 21:32	1
p-Terphenyl-d14 (Surr)		98		45 - 120	11/07/25 05:00	11/19/25 21:32	1

**Lab Sample ID: LCS 570-652517/2-A**  
**Matrix: Water**  
**Analysis Batch: 658616**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.5		ug/L		73	47 - 120
2-Methylnaphthalene	20.0	14.5		ug/L		73	43 - 120
Acenaphthene	20.0	16.6		ug/L		83	60 - 132
Acenaphthylene	20.0	17.4		ug/L		87	54 - 126
Anthracene	20.0	16.1		ug/L		81	43 - 120
Benzo[a]anthracene	20.0	17.8		ug/L		89	42 - 133
Benzo[a]pyrene	20.0	18.1		ug/L		90	32 - 148
Benzo[b]fluoranthene	20.0	18.3		ug/L		91	42 - 140
Benzo[g,h,i]perylene	20.0	18.3		ug/L		92	1 - 195
Benzo[k]fluoranthene	20.0	17.2		ug/L		86	25 - 146
Chrysene	20.0	17.1		ug/L		85	44 - 140
Dibenz(a,h)anthracene	20.0	19.6		ug/L		98	1 - 200
Fluoranthene	20.0	16.4		ug/L		82	43 - 121
Fluorene	20.0	16.8		ug/L		84	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.9		ug/L		99	1 - 151
Naphthalene	20.0	13.7		ug/L		69	36 - 120
Phenanthrene	20.0	16.6		ug/L		83	65 - 120
Pyrene	20.0	19.0		ug/L		95	70 - 120

Surrogate	LCS LCS	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)		94		28 - 127
2-Fluorobiphenyl (Surr)		86		31 - 120
2-Fluorophenol (Surr)		58		17 - 120
Nitrobenzene-d5 (Surr)		71		27 - 120
Phenol-d6 (Surr)		38		10 - 120
p-Terphenyl-d14 (Surr)		95		45 - 120

**Lab Sample ID: 380-181052-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 658616**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	14.0		ug/L		73	36 - 120
2-Methylnaphthalene	<0.19		19.3	14.0		ug/L		73	32 - 124
Acenaphthene	<0.19		19.3	16.1		ug/L		83	47 - 145

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 658616**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthylene	<0.19		19.3	17.1		ug/L		88		33 - 145
Anthracene	<0.19		19.3	16.0		ug/L		83		27 - 133
Benzo[a]anthracene	<0.19		19.3	17.1		ug/L		88		33 - 143
Benzo[a]pyrene	<0.19		19.3	17.8		ug/L		92		17 - 163
Benzo[b]fluoranthene	<0.19		19.3	17.5		ug/L		91		24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	17.3		ug/L		90		1 - 219
Benzo[k]fluoranthene	<0.19		19.3	16.7		ug/L		86		11 - 162
Chrysene	<0.19		19.3	16.4		ug/L		85		17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	18.5		ug/L		96		1 - 227
Fluoranthene	<0.19		19.3	16.0		ug/L		83		26 - 137
Fluorene	<0.19		19.3	16.3		ug/L		84		59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	18.9		ug/L		98		1 - 171
Naphthalene	<0.19		19.3	13.2		ug/L		68		21 - 133
Phenanthrene	<0.19		19.3	15.9		ug/L		82		54 - 120
Pyrene	<0.19		19.3	18.3		ug/L		95		52 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	96		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	65		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

**Lab Sample ID: 380-181052-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 658616**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
1-Methylnaphthalene	<0.19		19.1	14.0		ug/L		73		36 - 120	0		30
2-Methylnaphthalene	<0.19		19.1	14.0		ug/L		73		32 - 124	0		30
Acenaphthene	<0.19		19.1	15.7		ug/L		82		47 - 145	2		48
Acenaphthylene	<0.19		19.1	16.6		ug/L		87		33 - 145	3		74
Anthracene	<0.19		19.1	15.5		ug/L		81		27 - 133	3		66
Benzo[a]anthracene	<0.19		19.1	17.4		ug/L		91		33 - 143	2		53
Benzo[a]pyrene	<0.19		19.1	17.9		ug/L		94		17 - 163	1		72
Benzo[b]fluoranthene	<0.19		19.1	17.9		ug/L		94		24 - 159	2		71
Benzo[g,h,i]perylene	<0.19		19.1	17.9		ug/L		94		1 - 219	3		97
Benzo[k]fluoranthene	<0.19		19.1	17.1		ug/L		90		11 - 162	2		63
Chrysene	<0.19		19.1	16.7		ug/L		87		17 - 168	2		87
Dibenz(a,h)anthracene	<0.19		19.1	19.2		ug/L		101		1 - 227	4		126
Fluoranthene	<0.19		19.1	16.3		ug/L		85		26 - 137	1		66
Fluorene	<0.19		19.1	15.9		ug/L		83		59 - 121	3		38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	19.6		ug/L		102		1 - 171	3		99
Naphthalene	<0.19		19.1	13.4		ug/L		70		21 - 133	1		65
Phenanthrene	<0.19		19.1	15.8		ug/L		83		54 - 120	1		39
Pyrene	<0.19		19.1	18.3		ug/L		96		52 - 120	0		49

# QC Sample Results

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

Job ID: 380-181052-1  
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: 380-181052-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 658616**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 652517**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

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

**Lab Sample ID: MB 570-653207/6**  
**Matrix: Water**  
**Analysis Batch: 653207**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			11/08/25 14:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		11/08/25 14:30	1

**Lab Sample ID: LCS 570-653207/4**  
**Matrix: Water**  
**Analysis Batch: 653207**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	388		ug/L		97	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

**Lab Sample ID: LCSD 570-653207/5**  
**Matrix: Water**  
**Analysis Batch: 653207**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	392		ug/L		98	78 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		38 - 134

**Lab Sample ID: MRL 570-653207/3**  
**Matrix: Water**  
**Analysis Batch: 653207**

**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	12.8		ug/L		128	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-181052-1  
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)

<u>Surrogate</u>	<u>MRL</u> <u>%Recovery</u>	<u>MRL</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	91		38 - 134

**Lab Sample ID: 380-181052-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 653207**

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

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> <u>Result</u>	<u>MS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>
Gasoline Range Organics (C4-C13)	<10		400	394		ug/L		99	68 - 122

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	98		38 - 134

**Lab Sample ID: 380-181052-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 653207**

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

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>	<u>RPD</u> <u>Limit</u>
Gasoline Range Organics (C4-C13)	<10		400	376		ug/L		94	68 - 122	5 / 18

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	94		38 - 134

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

**Lab Sample ID: MB 570-653516/1-A**  
**Matrix: Water**  
**Analysis Batch: 657598**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 653516**

<u>Analyte</u>	<u>MB</u> <u>Result</u>	<u>MB</u> <u>Qualifier</u>	<u>RL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Diesel Range Organics (C10-C24)	<25		25	ug/L		11/09/25 11:05	11/17/25 21:17	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		11/09/25 11:05	11/17/25 21:17	1
C8-C18	<25		25	ug/L		11/09/25 11:05	11/17/25 21:17	1

<u>Surrogate</u>	<u>MB</u> <u>%Recovery</u>	<u>MB</u> <u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
n-Octacosane (Surr)	94		60 - 130	11/09/25 11:05	11/17/25 21:17	1

**Lab Sample ID: LCS 570-653516/2-A**  
**Matrix: Water**  
**Analysis Batch: 657598**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 653516**

<u>Analyte</u>	<u>Spike</u> <u>Added</u>	<u>LCS</u> <u>Result</u>	<u>LCS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>
C10-C28	1600	1540		ug/L		96	56 - 127

<u>Surrogate</u>	<u>LCS</u> <u>%Recovery</u>	<u>LCS</u> <u>Qualifier</u>	<u>Limits</u>
n-Octacosane (Surr)	115		60 - 130

# QC Sample Results

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

Job ID: 380-181052-1  
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 (Continued)

**Lab Sample ID: LCSD 570-653516/3-A**  
**Matrix: Water**  
**Analysis Batch: 657598**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 653516**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD		
C10-C28	1600	1390		ug/L		87	56 - 127	11	23	
		<b>LCSD</b>	<b>LCSD</b>							
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>		102		60 - 130						

**Lab Sample ID: MRL 570-653516/4-A**  
**Matrix: Water**  
**Analysis Batch: 657598**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 653516**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD		
C10-C28	0.0200	<0.020		mg/L		95	50 - 150			
		<b>MRL</b>	<b>MRL</b>							
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>		88		60 - 130						

**Lab Sample ID: 380-181052-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 657598**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 653516**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD
									Limits	RPD	
C10-C28	<26		1660	1880		ug/L		113	70 - 130		
		<b>MS</b>	<b>MS</b>								
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>		132	S1+	60 - 130							

**Lab Sample ID: 380-181052-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 657598**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 653516**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD
									Limits	RPD	
C10-C28	<26		1640	1850		ug/L		113	70 - 130	2	20
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>		134	S1+	60 - 130							

# QC Association Summary

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

Job ID: 380-181052-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

## GC/MS Semi VOA

### Prep Batch: 184888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	525.2	
MB 380-184888/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-184888/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-184888/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-181047-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-181052-1 DU	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	

### Analysis Batch: 185110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	184888
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	525.2	184888
MB 380-184888/20-A	Method Blank	Total/NA	Water	525.2	184888
LCS 380-184888/22-A	Lab Control Sample	Total/NA	Water	525.2	184888
MRL 380-184888/21-A	Lab Control Sample	Total/NA	Water	525.2	184888
380-181047-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	184888
380-181052-1 DU	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	184888

### Prep Batch: 652517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1	
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	625.1	
MB 570-652517/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-652517/2-A	Lab Control Sample	Total/NA	Water	625.1	
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

### Analysis Batch: 658616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1 SIM	652517
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	625.1 SIM	652517
MB 570-652517/1-A	Method Blank	Total/NA	Water	625.1 SIM	652517
LCS 570-652517/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	652517
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	652517
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	652517

### Analysis Batch: 659204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1	652517
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	625.1	652517
MB 570-652517/1-A	Method Blank	Total/NA	Water	625.1	652517

## GC VOA

### Analysis Batch: 653207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	8015B GRO LL	
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	8015B GRO LL	
380-181052-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP06	Total/NA	Water	8015B GRO LL	
380-181052-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-181052-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

## GC VOA (Continued)

### Analysis Batch: 653207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-653207/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-653207/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-653207/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-653207/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 653516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	3510C	
MB 570-653516/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-653516/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-653516/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-653516/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

### Analysis Batch: 657598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B	653516
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	8015B	653516
MB 570-653516/1-A	Method Blank	Total/NA	Water	8015B	653516
LCS 570-653516/2-A	Lab Control Sample	Total/NA	Water	8015B	653516
LCSD 570-653516/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	653516
MRL 570-653516/4-A	Lab Control Sample	Total/NA	Water	8015B	653516
380-181052-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	653516
380-181052-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	653516

# Lab Chronicle

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

Job ID: 380-181052-1  
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: 380-181052-1**

**Date Collected: 11/03/25 10:27  
Date Received: 11/05/25 09:55**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184888	IQ42	EA POM	11/06/25 14:15
Total/NA	Analysis	525.2		1	185110	Q8LA	EA POM	11/07/25 15:18
Total/NA	Prep	625.1			652517	S4EA	EET CAL 4	11/07/25 05:00
Total/NA	Analysis	625.1		1	659204	PQS1	EET CAL 4	11/20/25 11:27
Total/NA	Prep	625.1			652517	S4EA	EET CAL 4	11/07/25 05:00
Total/NA	Analysis	625.1 SIM		1	658616	PQS1	EET CAL 4	11/19/25 23:02
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 18:21
Total/NA	Prep	3510C			653516	TVD6	EET CAL 4	11/09/25 11:05
Total/NA	Analysis	8015B		1	657598	NR	EET CAL 4	11/17/25 23:22

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

**Lab Sample ID: 380-181052-2**

**Date Collected: 11/03/25 11:38  
Date Received: 11/05/25 09:55**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184888	IQ42	EA POM	11/06/25 14:15
Total/NA	Analysis	525.2		1	185110	Q8LA	EA POM	11/07/25 15:59
Total/NA	Prep	625.1			652517	S4EA	EET CAL 4	11/07/25 05:00
Total/NA	Analysis	625.1		1	659204	PQS1	EET CAL 4	11/20/25 11:51
Total/NA	Prep	625.1			652517	S4EA	EET CAL 4	11/07/25 05:00
Total/NA	Analysis	625.1 SIM		1	658616	PQS1	EET CAL 4	11/19/25 23:24
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 22:13
Total/NA	Prep	3510C			653516	TVD6	EET CAL 4	11/09/25 11:05
Total/NA	Analysis	8015B		1	657598	NR	EET CAL 4	11/17/25 23:01

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

**Lab Sample ID: 380-181052-3**

**Date Collected: 11/03/25 10:27  
Date Received: 11/05/25 09:55**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 20:45

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

**Lab Sample ID: 380-181052-4**

**Date Collected: 11/03/25 11:38  
Date Received: 11/05/25 09:55**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 21:07

# Lab Chronicle

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

Job ID: 380-181052-1  
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: 380-181052-1  
 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

## 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	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26

Eurofins Eaton Analytical Pomona

# Accreditation/Certification Summary

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

Job ID: 380-181052-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	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	10-11-26

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# Method Summary

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

Job ID: 380-181052-1  
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: 380-181052-1  
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
380-181052-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	11/03/25 10:27	11/05/25 09:55	HI0000331
380-181052-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Drinking Water	11/03/25 11:38	11/05/25 09:55	HI0000331
380-181052-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	11/03/25 10:27	11/05/25 09:55	
380-181052-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	11/03/25 11:38	11/05/25 09:55	

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ORIGIN ID HIKA (808) 748-5840  
BWS CHEMLAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

SHIP DATE 04NOV25  
ACTWGT 58.00 LB  
CAD 258050552/INET4535

BILL RECIPIENT

TO **EUROFINS RECEIVING DEPARTMENT**  
**EUROFINS DRINKING WATER TESTING**  
**941 CORPORATE CENTER DR**

**POMONA CA 91768**

(626) 386-1100 REF  
INV: PO: DEPT:

58HJ2501C169F2



2 of 7

WED - 05 NOV 10:30A  
PRIORITY OVERNIGHT

MPS# 8857 5732 8044

Mstr# 8857 5732 8033

0201

91768

**WM ONTA**

CA-US ONT



(63(A)) 1.2400 1.2 yel-frozen  
Mark Urechia 11/5/25 955

After printing this label  
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH  
1. Fold the printed page along the horizontal line  
2. Place label in shipping pouch and affix it to your shipment.

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- 16

ORIGIN ID HIKA (808) 748-5840  
BWS CHEMLAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

SHIP DATE 04NOV25  
ACTWGT 58.00 LB  
CAD 258050552/INET4535

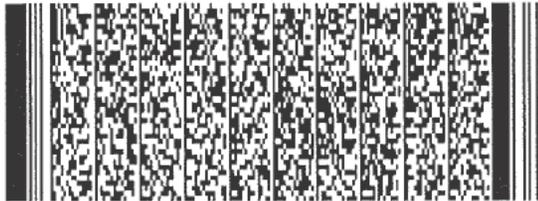
BILL RECIPIENT

TO EUROFINS RECEIVING DEPARTMENT  
EUROFINS DRINKING WATER TESTING  
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 386-1100 REF  
INV. PO. DEPT.

58-HJ2501C59F2



3 of 7

WED - 05 NOV 10:30A  
PRIORITY OVERNIGHT

MPS# 8857 5732 8055

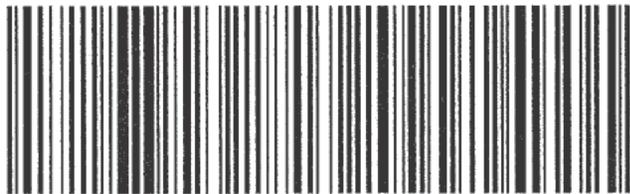
Mstr# 8857 5732 8033

0201

91768

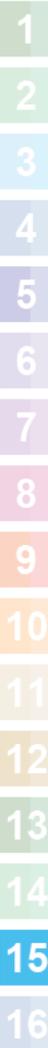
WM ONTA

CA-US ONT



(63A) 24+00 2.4 gal- frozen  
Mark Urrutia 11/5/25 955

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2. Place label in shipping pouch and affix it to your shipment.





# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-181052-1

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

**Login Number: 181052**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Ngo, Theodore**

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

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-181052-1

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

**Login Number: 181052**

**List Source: Eurofins Calscience**

**List Number: 2**

**List Creation: 11/06/25 07:05 PM**

**Creator: Khana, Piyush**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	1.7
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	