

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-139078-1

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: 380-139078-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC 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.

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: 380-139078-1

Job ID: 380-139078-1

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Job Narrative 380-139078-1

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

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

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

Receipt

The samples were received on 3/5/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

Receipt Exceptions

Insufficient sample volume was provided for the following samples for the <FRACTION_METHOD> analysis: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-139078-1), TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-139078-2), AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-139078-3) and TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-139078-4). Insufficient volume for MS/MSD.

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-542082. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-542082. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 525.2_PREC: The matrix spike (MS) recovery for preparation batch 380-140212 and analytical batch 380-140555 was below control limits for Anthracene. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-1

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-2

No Detections.

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-4

No Detections.

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

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-1

Date Collected: 03/03/25 10:28

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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		03/07/25 06:40	03/07/25 15:03	1
2,4'-DDD	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
2,4'-DDE	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
2,4'-DDT	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
4,4'-DDD	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
4,4'-DDE	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
4,4'-DDT	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Acenaphthene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Acenaphthylene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Acetochlor	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Alachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
alpha-BHC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
alpha-Chlordane	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Anthracene	<0.020	F1	0.020	ug/L		03/07/25 06:40	03/07/25 15:03	1
Atrazine	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:03	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:03	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:03	1
beta-BHC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/07/25 06:40	03/07/25 15:03	1
Bromacil	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Butachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 15:03	1
Chlorobenzilate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Chloroneb	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Chlorpyrifos	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Chrysene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:03	1
delta-BHC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/07/25 06:40	03/07/25 15:03	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Dieldrin	<0.0098	^3+	0.0098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Diethylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 15:03	1
Dimethylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 15:03	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/07/25 06:40	03/07/25 15:03	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Endrin	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Endrin aldehyde	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
EPTC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1

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Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-1

Date Collected: 03/03/25 10:28

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Fluorene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
gamma-Chlordane	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Heptachlor	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Isophorone	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Lindane	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Malathion	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Methoxychlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Metolachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Molinate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Naphthalene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Parathion	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Phenanthrene	<0.039		0.039	ug/L		03/07/25 06:40	03/07/25 15:03	1
Propachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Pyrene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Simazine	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Terbacil	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Terbutylazine	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Thiobencarb	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/07/25 06:40	03/07/25 15:03	1
trans-Nonachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:03	1
Trifluralin	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/07/25 06:40	03/07/25 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	03/07/25 06:40	03/07/25 15:03	1
Perylene-d12	97		70 - 130	03/07/25 06:40	03/07/25 15:03	1
Triphenylphosphate	94		70 - 130	03/07/25 06:40	03/07/25 15:03	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		03/06/25 19:41	03/11/25 17:59	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Acenaphthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Acenaphthylene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Anthracene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Chrysene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-1

Date Collected: 03/03/25 10:28

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Fluoranthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Fluorene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Naphthalene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Phenanthrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1
Pyrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		28 - 127	03/06/25 19:41	03/11/25 17:59	1
2-Fluorobiphenyl (Surr)	56		31 - 120	03/06/25 19:41	03/11/25 17:59	1
2-Fluorophenol (Surr)	24		17 - 120	03/06/25 19:41	03/11/25 17:59	1
Nitrobenzene-d5 (Surr)	54		27 - 120	03/06/25 19:41	03/11/25 17:59	1
Phenol-d6 (Surr)	15		10 - 120	03/06/25 19:41	03/11/25 17:59	1
p-Terphenyl-d14 (Surr)	64		45 - 120	03/06/25 19:41	03/11/25 17:59	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
Unknown	9.4	T J	ug/L		2.16	N/A	03/06/25 19:41	03/13/25 13:55	1
2-Pentalen, (E)-	24	T J N	ug/L		2.37	1576-87-0	03/06/25 19:41	03/13/25 13:55	1
3-Hexene, 2,2,5,5-tetramethyl-, (Z)-	10	T J N	ug/L		2.46	692-47-7	03/06/25 19:41	03/13/25 13:55	1
Cyclohexane, 1-methyl-2-propyl-	16	T J N	ug/L		2.58	4291-79-6	03/06/25 19:41	03/13/25 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		33 - 139	03/06/25 19:41	03/13/25 13:55	1
2-Fluorobiphenyl (Surr)	64		33 - 126	03/06/25 19:41	03/13/25 13:55	1
2-Fluorophenol (Surr)	28		12 - 120	03/06/25 19:41	03/13/25 13:55	1
Nitrobenzene-d5 (Surr)	58		36 - 120	03/06/25 19:41	03/13/25 13:55	1
Phenol-d6 (Surr)	14		10 - 120	03/06/25 19:41	03/13/25 13:55	1
p-Terphenyl-d14 (Surr)	76		47 - 131	03/06/25 19:41	03/13/25 13:55	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			03/11/25 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134		03/11/25 16:55	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		03/07/25 16:10	03/15/25 07:43	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/07/25 16:10	03/15/25 07:43	1
C8-C18	<26		26	ug/L		03/07/25 16:10	03/15/25 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	83		60 - 130	03/07/25 16:10	03/15/25 07:43	1

Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-2

Date Collected: 03/03/25 10:28

Matrix: Water

Date Received: 03/05/25 09:20

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			03/11/25 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134				03/11/25 14:44	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

Date Collected: 03/03/25 10:46

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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		03/07/25 06:40	03/07/25 15:24	1
2,4'-DDD	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
2,4'-DDE	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
2,4'-DDT	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
4,4'-DDD	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
4,4'-DDE	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
4,4'-DDT	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Acenaphthene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Acenaphthylene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Acetochlor	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Alachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
alpha-BHC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
alpha-Chlordane	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Anthracene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:24	1
Atrazine	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:24	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:24	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:24	1
beta-BHC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/07/25 06:40	03/07/25 15:24	1
Bromacil	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Butachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 15:24	1
Chlorobenzilate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Chloroneb	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Chlorpyrifos	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Chrysene	<0.020		0.020	ug/L		03/07/25 06:40	03/07/25 15:24	1
delta-BHC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/07/25 06:40	03/07/25 15:24	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

Date Collected: 03/03/25 10:46

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0098	^3+	0.0098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Diethylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 15:24	1
Dimethylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 15:24	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/07/25 06:40	03/07/25 15:24	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Endrin	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Endrin aldehyde	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
EPTC	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Fluoranthene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Fluorene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
gamma-Chlordane	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Heptachlor	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Isophorone	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Lindane	<0.0098		0.0098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Malathion	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Methoxychlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Metolachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Molinate	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Naphthalene	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Parathion	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Phenanthrene	<0.039		0.039	ug/L		03/07/25 06:40	03/07/25 15:24	1
Propachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Pyrene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Simazine	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Terbacil	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Terbutylazine	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Thiobencarb	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/07/25 06:40	03/07/25 15:24	1
trans-Nonachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 15:24	1
Trifluralin	<0.098		0.098	ug/L		03/07/25 06:40	03/07/25 15:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/07/25 06:40	03/07/25 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	03/07/25 06:40	03/07/25 15:24	1
Perylene-d12	96		70 - 130	03/07/25 06:40	03/07/25 15:24	1
Triphenylphosphate	96		70 - 130	03/07/25 06:40	03/07/25 15:24	1

Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

Date Collected: 03/03/25 10:46

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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		03/06/25 19:41	03/11/25 18:21	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Acenaphthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Acenaphthylene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Anthracene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Chrysene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Fluoranthene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Fluorene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Naphthalene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Phenanthrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1
Pyrene	<0.19		0.19	ug/L		03/06/25 19:41	03/11/25 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		28 - 127	03/06/25 19:41	03/11/25 18:21	1
2-Fluorobiphenyl (Surr)	79		31 - 120	03/06/25 19:41	03/11/25 18:21	1
2-Fluorophenol (Surr)	36		17 - 120	03/06/25 19:41	03/11/25 18:21	1
Nitrobenzene-d5 (Surr)	79		27 - 120	03/06/25 19:41	03/11/25 18:21	1
Phenol-d6 (Surr)	21		10 - 120	03/06/25 19:41	03/11/25 18:21	1
p-Terphenyl-d14 (Surr)	74		45 - 120	03/06/25 19:41	03/11/25 18:21	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
Methylene Chloride	14	T J N	ug/L		1.32	75-09-2	03/06/25 19:41	03/13/25 14:17	1
3-Hexene, 2,2,5,5-tetramethyl-, (Z)-	12	T J N	ug/L		2.16	692-47-7	03/06/25 19:41	03/13/25 14:17	1
2-Pentenal, (E)-	32	T J N	ug/L		2.37	1576-87-0	03/06/25 19:41	03/13/25 14:17	1
Cyclohexane, 1-methyl-2-propyl-	20	T J N	ug/L		2.58	4291-79-6	03/06/25 19:41	03/13/25 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		33 - 139	03/06/25 19:41	03/13/25 14:17	1
2-Fluorobiphenyl (Surr)	86		33 - 126	03/06/25 19:41	03/13/25 14:17	1
2-Fluorophenol (Surr)	37		12 - 120	03/06/25 19:41	03/13/25 14:17	1
Nitrobenzene-d5 (Surr)	79		36 - 120	03/06/25 19:41	03/13/25 14:17	1
Phenol-d6 (Surr)	19		10 - 120	03/06/25 19:41	03/13/25 14:17	1
p-Terphenyl-d14 (Surr)	79		47 - 131	03/06/25 19:41	03/13/25 14:17	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			03/11/25 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134		03/11/25 17:21	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

Date Collected: 03/03/25 10:46

Matrix: Drinking Water

Date Received: 03/05/25 09:20

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		03/07/25 16:10	03/15/25 08:04	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/07/25 16:10	03/15/25 08:04	1
C8-C18	<26		26	ug/L		03/07/25 16:10	03/15/25 08:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n-Octacosane (Surr)</i>	87		60 - 130			03/07/25 16:10	03/15/25 08:04	1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-4

Date Collected: 03/03/25 10:46

Matrix: Water

Date Received: 03/05/25 09:20

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			03/11/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	81		38 - 134				03/11/25 15:10	1

Action Limit Summary

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-1

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)	<0.0098		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 GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
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)	<0.0098		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

Surrogate Summary

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

Job ID: 380-139078-1
 SDG: Weekly

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)
380-139078-1	AIEA GULCH WELLS PUMP 1 (	97	97	94
380-139078-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	98	97	99
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97	96	96
380-139078-3 DU	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	98	98	96

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)
LCS 380-140212/23-A	Lab Control Sample	97	100	102
LCSD 380-140212/24-A	Lab Control Sample Dup	95	100	101
MB 380-140212/21-A	Method Blank	96	99	93
MRL 380-140212/22-A	Lab Control Sample	97	99	97

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)
380-139078-1	AIEA GULCH WELLS PUMP 1 (	87	64	28	58	14	76
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	100	86	37	79	19	79

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

Surrogate Summary

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

Job ID: 380-139078-1
SDG: Weekly

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 570-542082/1-A	Method Blank	106	78	37	72	20	79

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)
380-139078-1	AIEA GULCH WELLS PUMP 1 (	55	56	24	54	15	64
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	70	79	36	79	21	74

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)
570-221020-E-2-A MS	Matrix Spike	73	82	46	74	29	82
570-221020-E-2-B MSD	Matrix Spike Duplicate	71	83	45	71	28	77
LCS 570-542082/2-A	Lab Control Sample	71	76	40	67	25	80
LCSD 570-542082/3-A	Lab Control Sample Dup	71	81	41	72	25	82
MB 570-542082/1-A	Method Blank	66	69	35	72	20	68

Surrogate Legend

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

Surrogate Summary

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

Job ID: 380-139078-1
 SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-139078-1	AIEA GULCH WELLS PUMP 1 (	85
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	84

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)
380-138874-C-1 MS	Matrix Spike	100
380-138874-C-1 MSD	Matrix Spike Duplicate	101
380-139078-2	TB: AIEA GULCH WELLS PUMF 1 (331-201-TP071)	83
380-139078-4	TB: AIEA GULCH WELLS PUMF 2 (331-202-TP072)	81
LCS 570-543427/7	Lab Control Sample	102
LCSD 570-543427/5	Lab Control Sample Dup	100
MB 570-543427/6	Method Blank	80
MRL 570-543427/3	Lab Control Sample	81

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)
380-139078-1	AIEA GULCH WELLS PUMP 1 (	83
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	87

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-138874-B-1-A MS	Matrix Spike	85
380-138874-B-1-B MSD	Matrix Spike Duplicate	84
LCS 570-542436/2-A	Lab Control Sample	82
LCSD 570-542436/3-A	Lab Control Sample Dup	82
MB 570-542436/1-A	Method Blank	86
MRL 570-542436/4-A	Lab Control Sample	82

Surrogate Legend

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL
OTCSN = n-Octacosane (Surr)

Job ID: 380-139078-1
SDG: Weekly

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

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: MB 380-140212/21-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140212

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
2,4'-DDD	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
2,4'-DDE	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
2,4'-DDT	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
2-Methylnaphthalene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
4,4'-DDD	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
4,4'-DDE	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
4,4'-DDT	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Acenaphthene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Acenaphthylene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Acetochlor	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Alachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
alpha-BHC	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
alpha-Chlordane	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Anthracene	<0.019		0.019	ug/L		03/07/25 06:40	03/07/25 14:43	1
Atrazine	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Benzo[a]pyrene	<0.019		0.019	ug/L		03/07/25 06:40	03/07/25 14:43	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		03/07/25 06:40	03/07/25 14:43	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		03/07/25 06:40	03/07/25 14:43	1
beta-BHC	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		03/07/25 06:40	03/07/25 14:43	1
Bromacil	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Butachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 14:43	1
Chlorobenzilate	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Chloroneb	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Chlorpyrifos	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Chrysene	<0.019		0.019	ug/L		03/07/25 06:40	03/07/25 14:43	1
delta-BHC	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		03/07/25 06:40	03/07/25 14:43	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Dieldrin	<0.0097	^3+	0.0097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Diethylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 14:43	1
Dimethylphthalate	<0.49		0.49	ug/L		03/07/25 06:40	03/07/25 14:43	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		03/07/25 06:40	03/07/25 14:43	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Endosulfan sulfate	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Endrin	<0.0097		0.0097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Endrin aldehyde	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
EPTC	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1

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QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: MB 380-140212/21-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140212

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Fluorene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
gamma-Chlordane	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Heptachlor	<0.0097		0.0097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Isophorone	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Lindane	<0.0097		0.0097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Malathion	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Methoxychlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Metolachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Molinate	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Naphthalene	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Parathion	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Phenanthrene	<0.039		0.039	ug/L		03/07/25 06:40	03/07/25 14:43	1
Propachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Pyrene	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Simazine	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Terbacil	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Terbutylazine	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Thiobencarb	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		03/07/25 06:40	03/07/25 14:43	1
trans-Nonachlor	<0.049		0.049	ug/L		03/07/25 06:40	03/07/25 14:43	1
Trifluralin	<0.097		0.097	ug/L		03/07/25 06:40	03/07/25 14:43	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
9-Octadecenamide, (Z)-	0.701	T J N	ug/L		7.85	301-02-0	03/07/25 06:40	03/07/25 14:43	1
13-Docosenamide, (Z)-	0.723	T J N	ug/L		10.37	112-84-5	03/07/25 06:40	03/07/25 14:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	03/07/25 06:40	03/07/25 14:43	1
Perylene-d12	99		70 - 130	03/07/25 06:40	03/07/25 14:43	1
Triphenylphosphate	93		70 - 130	03/07/25 06:40	03/07/25 14:43	1

Lab Sample ID: LCS 380-140212/23-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.80		ug/L		93	70 - 130
2,4'-DDD	1.95	2.09		ug/L		107	70 - 130
2,4'-DDE	1.95	1.90		ug/L		97	70 - 130
2,4'-DDT	1.95	2.12		ug/L		109	70 - 130
2,4-Dinitrotoluene	1.95	2.00		ug/L		103	70 - 130
2,6-Dinitrotoluene	1.95	1.82		ug/L		93	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: LCS 380-140212/23-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.95	1.81		ug/L		93	70 - 130
4,4'-DDD	1.95	2.14		ug/L		110	70 - 130
4,4'-DDE	1.95	2.04		ug/L		105	70 - 130
4,4'-DDT	1.95	2.03		ug/L		104	70 - 130
Acenaphthene	1.95	1.93		ug/L		99	70 - 130
Acenaphthylene	1.95	1.93		ug/L		99	70 - 130
Acetochlor	1.95	2.00		ug/L		103	70 - 130
Alachlor	1.95	1.92		ug/L		99	70 - 130
alpha-BHC	1.95	1.98		ug/L		102	70 - 130
alpha-Chlordane	1.95	1.86		ug/L		95	70 - 130
Anthracene	1.95	1.98		ug/L		102	70 - 130
Atrazine	1.95	2.00		ug/L		103	70 - 130
Benz(a)anthracene	1.95	2.00		ug/L		103	70 - 130
Benzo[a]pyrene	1.95	2.13		ug/L		109	70 - 130
Benzo[b]fluoranthene	1.95	2.14		ug/L		110	70 - 130
Benzo[g,h,i]perylene	1.95	2.04		ug/L		104	70 - 130
Benzo[k]fluoranthene	1.95	2.07		ug/L		106	70 - 130
beta-BHC	1.95	2.04		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.10		ug/L		108	70 - 130
Bromacil	1.95	1.91		ug/L		98	70 - 130
Butachlor	1.95	2.19		ug/L		113	70 - 130
Butylbenzylphthalate	1.95	2.06		ug/L		105	70 - 130
Chlorobenzilate	1.95	1.99		ug/L		102	70 - 130
Chloroneb	1.95	1.92		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.07		ug/L		106	70 - 130
Chlorpyrifos	1.95	2.00		ug/L		103	70 - 130
Chrysene	1.95	1.95		ug/L		100	70 - 130
delta-BHC	1.95	2.05		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.08		ug/L		107	70 - 130
Dibenz(a,h)anthracene	1.95	1.99		ug/L		102	70 - 130
Diclorvos (DDVP)	1.95	1.97		ug/L		101	70 - 130
Dieldrin	1.95	1.94		ug/L		99	70 - 130
Diethylphthalate	1.95	1.97		ug/L		101	70 - 130
Dimethylphthalate	1.95	1.93		ug/L		99	70 - 130
Di-n-butyl phthalate	3.90	4.33		ug/L		111	70 - 130
Di-n-octyl phthalate	1.95	1.93		ug/L		99	70 - 130
Endosulfan I (Alpha)	1.95	1.99		ug/L		102	70 - 130
Endosulfan II (Beta)	1.95	2.05		ug/L		105	70 - 130
Endosulfan sulfate	1.95	2.08		ug/L		107	70 - 130
Endrin	1.95	2.14		ug/L		110	70 - 130
Endrin aldehyde	1.95	1.99		ug/L		102	60 - 130
EPTC	1.95	1.98		ug/L		102	70 - 130
Fluoranthene	1.95	2.01		ug/L		103	70 - 130
Fluorene	1.95	1.91		ug/L		98	70 - 130
gamma-Chlordane	1.95	1.75		ug/L		90	70 - 130
Heptachlor	1.95	2.25		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.13		ug/L		109	70 - 130
Hexachlorobenzene	1.95	1.75		ug/L		90	70 - 130
Hexachlorocyclopentadiene	1.95	1.80		ug/L		92	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: LCS 380-140212/23-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	1.95	2.04		ug/L		105	70 - 130
Isophorone	1.95	1.91		ug/L		98	70 - 130
Lindane	1.95	2.02		ug/L		103	70 - 130
Malathion	1.95	1.98		ug/L		102	70 - 130
Methoxychlor	1.95	2.17		ug/L		111	70 - 130
Metolachlor	1.95	2.22		ug/L		114	70 - 130
Molinate	1.95	2.01		ug/L		103	70 - 130
Naphthalene	1.95	1.95		ug/L		100	70 - 130
Parathion	1.95	2.10		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	1.95	2.03		ug/L		104	70 - 130
Phenanthrene	1.95	1.95		ug/L		100	70 - 130
Propachlor	1.95	2.05		ug/L		105	70 - 130
Pyrene	1.95	2.04		ug/L		105	70 - 130
Simazine	1.95	2.07		ug/L		106	70 - 130
Terbacil	1.95	2.16		ug/L		111	70 - 130
Terbutylazine	1.95	2.04		ug/L		105	70 - 130
Thiobencarb	1.95	2.22		ug/L		114	70 - 130
trans-Nonachlor	1.95	1.84		ug/L		95	70 - 130
Trifluralin	1.95	1.83		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: LCSD 380-140212/24-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.95	1.81		ug/L		93	70 - 130	0	20
2,4'-DDD	1.95	2.15		ug/L		110	70 - 130	3	20
2,4'-DDE	1.95	1.96		ug/L		101	70 - 130	3	20
2,4'-DDT	1.95	2.21		ug/L		113	70 - 130	4	20
2,4-Dinitrotoluene	1.95	2.10		ug/L		108	70 - 130	5	20
2,6-Dinitrotoluene	1.95	1.89		ug/L		97	70 - 130	4	20
2-Methylnaphthalene	1.95	1.83		ug/L		94	70 - 130	1	20
4,4'-DDD	1.95	2.21		ug/L		114	70 - 130	4	20
4,4'-DDE	1.95	2.09		ug/L		107	70 - 130	2	20
4,4'-DDT	1.95	2.08		ug/L		107	70 - 130	3	20
Acenaphthene	1.95	1.95		ug/L		100	70 - 130	1	20
Acenaphthylene	1.95	1.97		ug/L		101	70 - 130	2	20
Acetochlor	1.95	2.05		ug/L		105	70 - 130	2	20
Alachlor	1.95	1.97		ug/L		101	70 - 130	3	20
alpha-BHC	1.95	2.02		ug/L		103	70 - 130	2	20
alpha-Chlordane	1.95	1.91		ug/L		98	70 - 130	3	20
Anthracene	1.95	2.05		ug/L		105	70 - 130	3	20
Atrazine	1.95	2.05		ug/L		105	70 - 130	3	20

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-140212/24-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benz(a)anthracene	1.95	2.04		ug/L		105	70 - 130	2	20	
Benzo[a]pyrene	1.95	2.16		ug/L		111	70 - 130	2	20	
Benzo[b]fluoranthene	1.95	2.14		ug/L		110	70 - 130	0	20	
Benzo[g,h,i]perylene	1.95	2.10		ug/L		108	70 - 130	3	20	
Benzo[k]fluoranthene	1.95	2.14		ug/L		110	70 - 130	4	20	
beta-BHC	1.95	2.08		ug/L		107	70 - 130	2	20	
Bis(2-ethylhexyl) phthalate	1.95	2.12		ug/L		109	70 - 130	1	20	
Bromacil	1.95	2.08		ug/L		107	70 - 130	8	20	
Butachlor	1.95	2.25		ug/L		116	70 - 130	3	20	
Butylbenzylphthalate	1.95	2.09		ug/L		108	70 - 130	2	20	
Chlorobenzilate	1.95	2.03		ug/L		104	70 - 130	2	20	
Chloroneb	1.95	1.97		ug/L		101	70 - 130	3	20	
Chlorothalonil (Draconil, Bravo)	1.95	2.11		ug/L		109	70 - 130	2	20	
Chlorpyrifos	1.95	2.06		ug/L		106	70 - 130	3	20	
Chrysene	1.95	1.97		ug/L		101	70 - 130	1	20	
delta-BHC	1.95	2.14		ug/L		110	70 - 130	4	20	
Di(2-ethylhexyl)adipate	1.95	2.10		ug/L		108	70 - 130	1	20	
Dibenz(a,h)anthracene	1.95	2.02		ug/L		104	70 - 130	2	20	
Diclorvos (DDVP)	1.95	2.04		ug/L		105	70 - 130	3	20	
Dieldrin	1.95	2.03		ug/L		104	70 - 130	4	20	
Diethylphthalate	1.95	2.00		ug/L		102	70 - 130	1	20	
Dimethylphthalate	1.95	1.96		ug/L		101	70 - 130	2	20	
Di-n-butyl phthalate	3.90	4.33		ug/L		111	70 - 130	0	20	
Di-n-octyl phthalate	1.95	1.96		ug/L		101	70 - 130	1	20	
Endosulfan I (Alpha)	1.95	1.99		ug/L		102	70 - 130	0	20	
Endosulfan II (Beta)	1.95	2.07		ug/L		106	70 - 130	1	20	
Endosulfan sulfate	1.95	2.17		ug/L		111	70 - 130	4	20	
Endrin	1.95	2.21		ug/L		114	70 - 130	3	20	
Endrin aldehyde	1.95	2.08		ug/L		107	60 - 130	4	20	
EPTC	1.95	2.00		ug/L		103	70 - 130	1	20	
Fluoranthene	1.95	2.07		ug/L		106	70 - 130	3	20	
Fluorene	1.95	1.94		ug/L		100	70 - 130	1	20	
gamma-Chlordane	1.95	1.81		ug/L		93	70 - 130	3	20	
Heptachlor	1.95	2.32		ug/L		119	70 - 130	3	20	
Heptachlor epoxide (isomer B)	1.95	2.16		ug/L		111	70 - 130	1	20	
Hexachlorobenzene	1.95	1.76		ug/L		91	70 - 130	1	20	
Hexachlorocyclopentadiene	1.95	1.83		ug/L		94	70 - 130	2	20	
Indeno[1,2,3-cd]pyrene	1.95	2.05		ug/L		105	70 - 130	0	20	
Isophorone	1.95	2.07		ug/L		106	70 - 130	8	20	
Lindane	1.95	2.04		ug/L		105	70 - 130	1	20	
Malathion	1.95	2.05		ug/L		105	70 - 130	3	20	
Methoxychlor	1.95	2.20		ug/L		113	70 - 130	2	20	
Metolachlor	1.95	2.29		ug/L		118	70 - 130	3	20	
Molinate	1.95	2.04		ug/L		105	70 - 130	1	20	
Naphthalene	1.95	1.96		ug/L		101	70 - 130	1	20	
Parathion	1.95	2.17		ug/L		111	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.95	2.11		ug/L		108	70 - 130	4	20	
Phenanthrene	1.95	2.00		ug/L		103	70 - 130	2	20	
Propachlor	1.95	2.05		ug/L		105	70 - 130	0	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-140212/24-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	1.95	2.11		ug/L		108	70 - 130	3	20
Simazine	1.95	2.12		ug/L		109	70 - 130	2	20
Terbacil	1.95	2.32		ug/L		119	70 - 130	7	20
Terbutylazine	1.95	2.07		ug/L		106	70 - 130	1	20
Thiobencarb	1.95	2.27		ug/L		116	70 - 130	2	20
trans-Nonachlor	1.95	1.90		ug/L		98	70 - 130	3	20
Trifluralin	1.95	1.88		ug/L		97	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: MRL 380-140212/22-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0975	0.0988		ug/L		101	50 - 150
2,4'-DDD	0.0975	0.0879	J	ug/L		90	50 - 150
2,4'-DDE	0.0975	0.0935	J	ug/L		96	50 - 150
2,4'-DDT	0.0975	0.101		ug/L		104	50 - 150
2,4-Dinitrotoluene	0.0975	0.111		ug/L		114	50 - 150
2,6-Dinitrotoluene	0.0975	0.105		ug/L		107	50 - 150
2-Methylnaphthalene	0.0975	0.0954	J	ug/L		98	50 - 150
4,4'-DDD	0.0975	0.0992		ug/L		102	50 - 150
4,4'-DDE	0.0975	0.0969	J	ug/L		99	50 - 150
4,4'-DDT	0.0975	0.107		ug/L		110	50 - 150
Acenaphthene	0.0975	0.0833	J	ug/L		85	50 - 150
Acenaphthylene	0.0975	0.0910	J	ug/L		93	50 - 150
Acetochlor	0.0975	0.114		ug/L		117	50 - 150
Alachlor	0.0487	0.0458	J	ug/L		94	50 - 150
alpha-BHC	0.0975	0.103		ug/L		105	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		104	50 - 150
Anthracene	0.0195	0.0200		ug/L		102	50 - 150
Atrazine	0.0487	<0.047		ug/L		94	50 - 150
Benz(a)anthracene	0.0487	0.0516		ug/L		106	50 - 150
Benzo[a]pyrene	0.0195	0.0213		ug/L		109	50 - 150
Benzo[b]fluoranthene	0.0195	0.0202		ug/L		103	50 - 150
Benzo[g,h,i]perylene	0.0487	0.0463	J	ug/L		95	50 - 150
Benzo[k]fluoranthene	0.0195	0.0191		ug/L		98	50 - 150
beta-BHC	0.0975	0.112		ug/L		115	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.608		ug/L		104	50 - 150
Bromacil	0.0975	0.112		ug/L		114	50 - 150
Butachlor	0.0487	0.0537		ug/L		110	50 - 150
Butylbenzylphthalate	0.487	0.524		ug/L		108	50 - 150
Chlorobenzilate	0.0975	0.0898	J	ug/L		92	50 - 150
Chloroneb	0.0975	0.109		ug/L		112	50 - 150

QC Sample Results

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

Job ID: 380-139078-1
 SDG: Weekly

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

Lab Sample ID: MRL 380-140212/22-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorothalonil (Draconil, Bravo)	0.0975	0.0850	J	ug/L		87	50 - 150
Chlorpyrifos	0.0487	0.0471	J	ug/L		97	50 - 150
Chrysene	0.0195	0.0200		ug/L		103	50 - 150
delta-BHC	0.0975	0.109		ug/L		112	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.612		ug/L		105	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0451	J	ug/L		92	50 - 150
Diclorvos (DDVP)	0.0487	0.0568		ug/L		117	50 - 150
Dieldrin	0.00975	0.0154	^3+	ug/L		158	50 - 150
Diethylphthalate	0.487	0.504		ug/L		103	50 - 150
Dimethylphthalate	0.487	0.510		ug/L		105	50 - 150
Di-n-butyl phthalate	0.487	0.710	J	ug/L		146	49 - 243
Di-n-octyl phthalate	0.0975	0.0975		ug/L		100	50 - 150
Endosulfan I (Alpha)	0.0975	0.104		ug/L		106	50 - 150
Endosulfan II (Beta)	0.0975	0.107		ug/L		110	50 - 150
Endosulfan sulfate	0.0975	0.105		ug/L		107	50 - 150
Endrin	0.00975	0.0145		ug/L		149	50 - 150
Endrin aldehyde	0.0975	0.111		ug/L		114	50 - 150
EPTC	0.0975	0.0942	J	ug/L		97	50 - 150
Fluoranthene	0.0975	0.0978		ug/L		100	50 - 150
Fluorene	0.0487	<0.049		ug/L		96	50 - 150
gamma-Chlordane	0.0244	0.0208	J	ug/L		86	50 - 150
Heptachlor	0.00975	0.0124		ug/L		128	50 - 150
Heptachlor epoxide (isomer B)	0.00975	0.00765	J	ug/L		78	50 - 150
Hexachlorobenzene	0.0487	0.0437	J	ug/L		90	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0414	J	ug/L		85	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0490		ug/L		101	50 - 150
Isophorone	0.0975	0.110		ug/L		113	50 - 150
Lindane	0.00975	0.0120		ug/L		123	50 - 150
Malathion	0.0975	0.104		ug/L		106	50 - 150
Methoxychlor	0.0487	0.0637		ug/L		131	50 - 150
Metolachlor	0.0487	0.0537		ug/L		110	50 - 150
Molinate	0.0975	0.104		ug/L		107	50 - 150
Naphthalene	0.0975	0.0855	J	ug/L		88	50 - 150
Parathion	0.0975	0.0948	J	ug/L		97	50 - 150
Pendimethalin (Penoxaline)	0.0975	0.0963	J	ug/L		99	50 - 150
Phenanthrene	0.0390	0.0337	J	ug/L		86	50 - 150
Propachlor	0.0487	0.0544		ug/L		112	50 - 150
Pyrene	0.0487	0.0489	J	ug/L		100	50 - 150
Simazine	0.0487	0.0476	J	ug/L		98	50 - 150
Terbacil	0.0975	0.0972		ug/L		100	50 - 150
Terbutylazine	0.0975	0.101		ug/L		103	50 - 150
Thiobencarb	0.0975	0.104		ug/L		107	50 - 150
trans-Nonachlor	0.0244	<0.025		ug/L		95	50 - 150
Trifluralin	0.0975	0.0977		ug/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	99		70 - 130

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: MRL 380-140212/22-A
Matrix: Water
Analysis Batch: 140555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140212

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Triphenylphosphate	97		70 - 130

Lab Sample ID: 380-139078-1 MS
Matrix: Drinking Water
Analysis Batch: 140555

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.098		1.95	1.87		ug/L		96	70 - 130
2,4'-DDD	<0.098		1.95	2.08		ug/L		107	70 - 130
2,4'-DDE	<0.098		1.95	1.92		ug/L		98	70 - 130
2,4'-DDT	<0.098		1.95	2.11		ug/L		108	70 - 130
2,4-Dinitrotoluene	<0.098		1.95	2.15		ug/L		110	70 - 130
2,6-Dinitrotoluene	<0.098		1.95	1.94		ug/L		100	70 - 130
2-Methylnaphthalene	<0.098		1.95	1.89		ug/L		97	70 - 130
4,4'-DDD	<0.098		1.95	2.16		ug/L		111	70 - 130
4,4'-DDE	<0.098		1.95	2.05		ug/L		105	70 - 130
4,4'-DDT	<0.098		1.95	2.01		ug/L		103	70 - 130
Acenaphthene	<0.098		1.95	1.98		ug/L		102	70 - 130
Acenaphthylene	<0.098		1.95	1.98		ug/L		102	70 - 130
Acetochlor	<0.098		1.95	2.02		ug/L		103	70 - 130
Alachlor	<0.049		1.95	1.97		ug/L		101	70 - 130
alpha-BHC	<0.098		1.95	2.08		ug/L		106	70 - 130
alpha-Chlordane	<0.049		1.95	1.88		ug/L		96	70 - 130
Anthracene	<0.020	F1	1.95	0.973	F1	ug/L		50	70 - 130
Atrazine	<0.049		1.95	2.05		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.95	1.83		ug/L		94	70 - 130
Benzo[a]pyrene	<0.020		1.95	1.82		ug/L		93	70 - 130
Benzo[b]fluoranthene	<0.020		1.95	2.11		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.049		1.95	2.06		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.020		1.95	2.15		ug/L		110	70 - 130
beta-BHC	<0.098		1.95	2.07		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.95	2.00		ug/L		102	70 - 130
Bromacil	<0.098		1.95	2.02		ug/L		103	70 - 130
Butachlor	<0.049		1.95	2.22		ug/L		114	70 - 130
Butylbenzylphthalate	<0.49		1.95	2.05		ug/L		105	70 - 130
Chlorobenzilate	<0.098		1.95	2.03		ug/L		104	70 - 130
Chloroneb	<0.098		1.95	2.02		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.95	2.15		ug/L		110	70 - 130
Chlorpyrifos	<0.049		1.95	2.12		ug/L		109	70 - 130
Chrysene	<0.020		1.95	2.02		ug/L		103	70 - 130
delta-BHC	<0.098		1.95	2.10		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.95	2.01		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.049		1.95	1.99		ug/L		102	70 - 130
Diclorvos (DDVP)	<0.049		1.95	2.08		ug/L		107	70 - 130
Dieldrin	<0.0098	^3+	1.95	2.01		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.95	2.03		ug/L		104	70 - 130
Dimethylphthalate	<0.49		1.95	2.03		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.34		ug/L		105	70 - 130

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: 380-139078-1 MS

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 140555

Prep Batch: 140212

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier					Limits
Di-n-octyl phthalate	<0.098		1.95	1.80		ug/L		92	70 - 130
Endosulfan I (Alpha)	<0.098		1.95	2.01		ug/L		103	70 - 130
Endosulfan II (Beta)	<0.098		1.95	2.05		ug/L		105	70 - 130
Endosulfan sulfate	<0.098		1.95	2.14		ug/L		110	70 - 130
Endrin	<0.0098		1.95	2.22		ug/L		114	70 - 130
Endrin aldehyde	<0.098		1.95	1.88		ug/L		96	60 - 130
EPTC	<0.098		1.95	2.05		ug/L		105	70 - 130
Fluoranthene	<0.098		1.95	2.06		ug/L		106	70 - 130
Fluorene	<0.049		1.95	1.99		ug/L		102	70 - 130
gamma-Chlordane	<0.049		1.95	1.78		ug/L		91	70 - 130
Heptachlor	<0.0098		1.95	2.33		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.95	2.15		ug/L		110	70 - 130
Hexachlorobenzene	<0.049		1.95	1.81		ug/L		93	70 - 130
Hexachlorocyclopentadiene	<0.049		1.95	1.89		ug/L		97	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.95	2.06		ug/L		105	70 - 130
Isophorone	<0.098		1.95	2.12		ug/L		108	70 - 130
Lindane	<0.0098		1.95	2.09		ug/L		107	70 - 130
Malathion	<0.098		1.95	2.03		ug/L		104	70 - 130
Methoxychlor	<0.049		1.95	2.22		ug/L		114	70 - 130
Metolachlor	<0.049		1.95	2.27		ug/L		116	70 - 130
Molinate	<0.098		1.95	2.08		ug/L		107	70 - 130
Naphthalene	<0.098		1.95	2.02		ug/L		103	70 - 130
Parathion	<0.098		1.95	2.14		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.95	2.11		ug/L		108	70 - 130
Phenanthrene	<0.039		1.95	2.01		ug/L		103	70 - 130
Propachlor	<0.049		1.95	2.12		ug/L		109	70 - 130
Pyrene	<0.049		1.95	2.05		ug/L		105	70 - 130
Simazine	<0.049		1.95	2.13		ug/L		109	70 - 130
Terbacil	<0.098		1.95	2.24		ug/L		115	70 - 130
Terbutylazine	<0.098		1.95	2.10		ug/L		107	70 - 130
Thiobencarb	<0.098		1.95	2.26		ug/L		116	70 - 130
trans-Nonachlor	<0.049		1.95	1.87		ug/L		96	70 - 130
Trifluralin	<0.098		1.95	1.92		ug/L		98	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	99		70 - 130

Lab Sample ID: 380-139078-3 DU

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 140555

Prep Batch: 140212

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

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QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: 380-139078-3 DU

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 140555

Prep Batch: 140212

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098	^3+	<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0098		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: 380-139078-3 DU
Matrix: Drinking Water
Analysis Batch: 140555

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA
Prep Batch: 140212

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
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		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		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		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

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

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

Lab Sample ID: MB 570-542082/1-A
Matrix: Water
Analysis Batch: 544507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542082

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/06/25 19:41	03/13/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		33 - 139	03/06/25 19:41	03/13/25 11:40	1
2-Fluorobiphenyl (Surr)	78		33 - 126	03/06/25 19:41	03/13/25 11:40	1
2-Fluorophenol (Surr)	37		12 - 120	03/06/25 19:41	03/13/25 11:40	1
Nitrobenzene-d5 (Surr)	72		36 - 120	03/06/25 19:41	03/13/25 11:40	1
Phenol-d6 (Surr)	20		10 - 120	03/06/25 19:41	03/13/25 11:40	1
p-Terphenyl-d14 (Surr)	79		47 - 131	03/06/25 19:41	03/13/25 11:40	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: MB 570-542082/1-A
Matrix: Water
Analysis Batch: 543594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542082

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
2-Methylnaphthalene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Acenaphthene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Acenaphthylene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Anthracene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Benzo[a]anthracene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Benzo[a]pyrene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Chrysene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Fluoranthene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Fluorene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Naphthalene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Phenanthrene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1
Pyrene	<0.20		0.20	ug/L		03/06/25 19:41	03/11/25 14:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		28 - 127	03/06/25 19:41	03/11/25 14:41	1
2-Fluorobiphenyl (Surr)	69		31 - 120	03/06/25 19:41	03/11/25 14:41	1
2-Fluorophenol (Surr)	35		17 - 120	03/06/25 19:41	03/11/25 14:41	1
Nitrobenzene-d5 (Surr)	72		27 - 120	03/06/25 19:41	03/11/25 14:41	1
Phenol-d6 (Surr)	20		10 - 120	03/06/25 19:41	03/11/25 14:41	1
p-Terphenyl-d14 (Surr)	68		45 - 120	03/06/25 19:41	03/11/25 14:41	1

Lab Sample ID: LCS 570-542082/2-A
Matrix: Water
Analysis Batch: 543594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	12.9		ug/L		65	47 - 120
2-Methylnaphthalene	20.0	14.5		ug/L		73	43 - 120
Acenaphthene	20.0	15.5		ug/L		78	60 - 132
Acenaphthylene	20.0	15.4		ug/L		77	54 - 126
Anthracene	20.0	16.4		ug/L		82	43 - 120
Benzo[a]anthracene	20.0	16.5		ug/L		82	42 - 133
Benzo[a]pyrene	20.0	17.9		ug/L		89	32 - 148
Benzo[b]fluoranthene	20.0	16.9		ug/L		84	42 - 140
Benzo[g,h,i]perylene	20.0	15.8		ug/L		79	1 - 195
Benzo[k]fluoranthene	20.0	17.3		ug/L		86	25 - 146
Chrysene	20.0	16.2		ug/L		81	44 - 140
Dibenz(a,h)anthracene	20.0	16.0		ug/L		80	1 - 200
Fluoranthene	20.0	16.6		ug/L		83	43 - 121
Fluorene	20.0	16.1		ug/L		80	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.7		ug/L		84	1 - 151
Naphthalene	20.0	13.2		ug/L		66	36 - 120

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QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: LCS 570-542082/2-A
Matrix: Water
Analysis Batch: 543594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	16.3		ug/L		81	65 - 120
Pyrene	20.0	16.5		ug/L		83	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	40		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	25		10 - 120
p-Terphenyl-d14 (Surr)	80		45 - 120

Lab Sample ID: LCSD 570-542082/3-A
Matrix: Water
Analysis Batch: 543594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 542082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.7		ug/L		69	47 - 120	6	20
2-Methylnaphthalene	20.0	15.8		ug/L		79	43 - 120	8	20
Acenaphthene	20.0	17.0		ug/L		85	60 - 132	9	29
Acenaphthylene	20.0	16.7		ug/L		84	54 - 126	8	45
Anthracene	20.0	17.1		ug/L		85	43 - 120	4	40
Benzo[a]anthracene	20.0	17.2		ug/L		86	42 - 133	4	32
Benzo[a]pyrene	20.0	18.7		ug/L		93	32 - 148	4	43
Benzo[b]fluoranthene	20.0	18.0		ug/L		90	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	1 - 195	7	61
Benzo[k]fluoranthene	20.0	18.1		ug/L		90	25 - 146	4	38
Chrysene	20.0	17.1		ug/L		86	44 - 140	6	53
Dibenz(a,h)anthracene	20.0	17.5		ug/L		88	1 - 200	9	75
Fluoranthene	20.0	16.9		ug/L		85	43 - 121	2	40
Fluorene	20.0	17.3		ug/L		86	70 - 120	7	23
Indeno[1,2,3-cd]pyrene	20.0	18.0		ug/L		90	1 - 151	7	60
Naphthalene	20.0	14.2		ug/L		71	36 - 120	8	39
Phenanthrene	20.0	16.8		ug/L		84	65 - 120	3	24
Pyrene	20.0	17.8		ug/L		89	70 - 120	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	41		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	25		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: 570-221020-E-2-A MS
Matrix: Water
Analysis Batch: 543594

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 542082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.19		19.6	14.3		ug/L		73	36 - 120
2-Methylnaphthalene	<0.19		19.6	16.0		ug/L		82	32 - 124
Acenaphthene	<0.19		19.6	17.2		ug/L		88	47 - 145
Acenaphthylene	<0.19		19.6	16.4		ug/L		84	33 - 145
Anthracene	<0.19		19.6	16.8		ug/L		85	27 - 133
Benzo[a]anthracene	<0.19		19.6	17.4		ug/L		88	33 - 143
Benzo[a]pyrene	<0.19		19.6	18.2		ug/L		93	17 - 163
Benzo[b]fluoranthene	<0.19		19.6	17.9		ug/L		91	24 - 159
Benzo[g,h,i]perylene	<0.19		19.6	17.3		ug/L		88	1 - 219
Benzo[k]fluoranthene	<0.19		19.6	17.7		ug/L		90	11 - 162
Chrysene	<0.19		19.6	17.1		ug/L		87	17 - 168
Dibenz(a,h)anthracene	<0.19		19.6	17.6		ug/L		90	1 - 227
Fluoranthene	<0.19		19.6	16.8		ug/L		86	26 - 137
Fluorene	<0.19		19.6	17.6		ug/L		90	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.6	18.1		ug/L		92	1 - 171
Naphthalene	<0.19		19.6	15.0		ug/L		76	21 - 133
Phenanthrene	<0.19		19.6	16.8		ug/L		86	54 - 120
Pyrene	<0.19		19.6	17.8		ug/L		91	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	73		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	46		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	29		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

Lab Sample ID: 570-221020-E-2-B MSD
Matrix: Water
Analysis Batch: 543594

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 542082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	13.6		ug/L		71	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.1	15.4		ug/L		81	32 - 124	4	30
Acenaphthene	<0.19		19.1	16.9		ug/L		89	47 - 145	1	48
Acenaphthylene	<0.19		19.1	16.8		ug/L		88	33 - 145	2	74
Anthracene	<0.19		19.1	16.6		ug/L		87	27 - 133	1	66
Benzo[a]anthracene	<0.19		19.1	16.5		ug/L		87	33 - 143	5	53
Benzo[a]pyrene	<0.19		19.1	17.6		ug/L		93	17 - 163	3	72
Benzo[b]fluoranthene	<0.19		19.1	16.9		ug/L		89	24 - 159	5	71
Benzo[g,h,i]perylene	<0.19		19.1	16.1		ug/L		84	1 - 219	7	97
Benzo[k]fluoranthene	<0.19		19.1	17.2		ug/L		90	11 - 162	3	63
Chrysene	<0.19		19.1	16.0		ug/L		84	17 - 168	7	87
Dibenz(a,h)anthracene	<0.19		19.1	16.5		ug/L		86	1 - 227	6	126
Fluoranthene	<0.19		19.1	16.9		ug/L		89	26 - 137	1	66
Fluorene	<0.19		19.1	16.9		ug/L		89	59 - 121	4	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	17.3		ug/L		91	1 - 171	5	99
Naphthalene	<0.19		19.1	13.7		ug/L		72	21 - 133	9	65

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: 570-221020-E-2-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543594

Prep Batch: 542082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.1	16.5		ug/L		87	54 - 120	2	39
Pyrene	<0.19		19.1	16.4		ug/L		86	52 - 120	8	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	45		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	28		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

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

Lab Sample ID: MB 570-543427/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543427

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			03/11/25 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		03/11/25 12:17	1

Lab Sample ID: LCS 570-543427/7

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	474		ug/L		118	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		38 - 134

Lab Sample ID: LCSD 570-543427/5

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	466		ug/L		116	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		38 - 134

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: MRL 570-543427/3
Matrix: Water
Analysis Batch: 543427

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	12.3		ug/L		123	50 - 150
Surrogate		MRL %Recovery	MRL Qualifier				Limits
4-Bromofluorobenzene (Surr)		81					38 - 134

Lab Sample ID: 380-138874-C-1 MS
Matrix: Water
Analysis Batch: 543427

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	436		ug/L		109	68 - 122
Surrogate		MS %Recovery		MS Qualifier					Limits
4-Bromofluorobenzene (Surr)		100							38 - 134

Lab Sample ID: 380-138874-C-1 MSD
Matrix: Water
Analysis Batch: 543427

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	483		ug/L		121	68 - 122	10	18
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
4-Bromofluorobenzene (Surr)		101							38 - 134		

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

Lab Sample ID: MB 570-542436/1-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542436

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/07/25 16:09	03/15/25 04:55	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/07/25 16:09	03/15/25 04:55	1
C8-C18	<25		25	ug/L		03/07/25 16:09	03/15/25 04:55	1
Surrogate		MB %Recovery	MB Qualifier			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		86				03/07/25 16:09	03/15/25 04:55	1

Lab Sample ID: LCS 570-542436/2-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1390		ug/L		87	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-139078-1
SDG: Weekly

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

Lab Sample ID: LCS 570-542436/2-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542436

	LCS %Recovery	LCS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	82		60 - 130

Lab Sample ID: LCSD 570-542436/3-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 542436

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1430		ug/L		90	56 - 127	3	23

	LCSD %Recovery	LCSD Qualifier	Limits
<i>n-Octacosane (Surr)</i>	82		60 - 130

Lab Sample ID: MRL 570-542436/4-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542436

	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0245	J	mg/L		122	50 - 150	

	MRL %Recovery	MRL Qualifier	Limits
<i>n-Octacosane (Surr)</i>	82		60 - 130

Lab Sample ID: 380-138874-B-1-A MS
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 542436

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1680	1570		ug/L		93	70 - 130

	MS %Recovery	MS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	85		60 - 130

Lab Sample ID: 380-138874-B-1-B MSD
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 542436

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1680	1580		ug/L		94	70 - 130	1	20

	MSD %Recovery	MSD Qualifier	Limits
<i>n-Octacosane (Surr)</i>	84		60 - 130

QC Association Summary

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

Job ID: 380-139078-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 140212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-140212/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-140212/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-140212/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-140212/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-139078-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-139078-3 DU	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	

Analysis Batch: 140555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	140212
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	140212
MB 380-140212/21-A	Method Blank	Total/NA	Water	525.2	140212
LCS 380-140212/23-A	Lab Control Sample	Total/NA	Water	525.2	140212
LCSD 380-140212/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	140212
MRL 380-140212/22-A	Lab Control Sample	Total/NA	Water	525.2	140212
380-139078-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	140212
380-139078-3 DU	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	140212

Prep Batch: 542082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-542082/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-542082/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-542082/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
570-221020-E-2-A MS	Matrix Spike	Total/NA	Water	625.1	
570-221020-E-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 543594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	542082
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	542082
MB 570-542082/1-A	Method Blank	Total/NA	Water	625.1 SIM	542082
LCS 570-542082/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	542082
LCSD 570-542082/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	542082
570-221020-E-2-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	542082
570-221020-E-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	542082

Analysis Batch: 544507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	542082
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	542082
MB 570-542082/1-A	Method Blank	Total/NA	Water	625.1	542082

GC VOA

Analysis Batch: 543427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-139078-1
SDG: Weekly

GC VOA (Continued)

Analysis Batch: 543427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Water	8015B GRO LL	
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-139078-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	8015B GRO LL	
MB 570-543427/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-543427/7	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-543427/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-543427/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-138874-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-138874-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 542436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-542436/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-542436/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-542436/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-542436/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-138874-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-138874-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 545293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	542436
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	542436
MB 570-542436/1-A	Method Blank	Total/NA	Water	8015B	542436
LCS 570-542436/2-A	Lab Control Sample	Total/NA	Water	8015B	542436
LCSD 570-542436/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	542436
MRL 570-542436/4-A	Lab Control Sample	Total/NA	Water	8015B	542436
380-138874-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	542436
380-138874-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	542436

Lab Chronicle

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

Job ID: 380-139078-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-1

Date Collected: 03/03/25 10:28

Matrix: Drinking Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			140212	OTM3	EA POM	03/07/25 06:40
Total/NA	Analysis	525.2		1	140555	Q8LA	EA POM	03/07/25 15:03
Total/NA	Prep	625.1			542082	UD4J	EET CAL 4	03/06/25 19:41
Total/NA	Analysis	625.1		1	544507	J7WE	EET CAL 4	03/13/25 13:55
Total/NA	Prep	625.1			542082	UD4J	EET CAL 4	03/06/25 19:41
Total/NA	Analysis	625.1 SIM		1	543594	PQS1	EET CAL 4	03/11/25 17:59
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 16:55
Total/NA	Prep	3510C			542436	TVD6	EET CAL 4	03/07/25 16:10
Total/NA	Analysis	8015B		1	545293	E5RH	EET CAL 4	03/15/25 07:43

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-139078-2

Date Collected: 03/03/25 10:28

Matrix: Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 14:44

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-3

Date Collected: 03/03/25 10:46

Matrix: Drinking Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			140212	OTM3	EA POM	03/07/25 06:40
Total/NA	Analysis	525.2		1	140555	Q8LA	EA POM	03/07/25 15:24
Total/NA	Prep	625.1			542082	UD4J	EET CAL 4	03/06/25 19:41
Total/NA	Analysis	625.1		1	544507	J7WE	EET CAL 4	03/13/25 14:17
Total/NA	Prep	625.1			542082	UD4J	EET CAL 4	03/06/25 19:41
Total/NA	Analysis	625.1 SIM		1	543594	PQS1	EET CAL 4	03/11/25 18:21
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 17:21
Total/NA	Prep	3510C			542436	TVD6	EET CAL 4	03/07/25 16:10
Total/NA	Analysis	8015B		1	545293	E5RH	EET CAL 4	03/15/25 08:04

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-139078-4

Date Collected: 03/03/25 10:46

Matrix: Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 15:10

Lab Chronicle

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

Job ID: 380-139078-1
SDG: Weekly

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: 380-139078-1
SDG: Weekly

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	01-31-25 *
<p>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.</p>			
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
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-139078-1
SDG: Weekly

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
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA001112025-8	02-28-26
Washington	State	C916	10-11-25

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Method Summary

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

Job ID: 380-139078-1
SDG: Weekly

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: 380-139078-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-139078-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	03/03/25 10:28	03/05/25 09:20
380-139078-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	03/03/25 10:28	03/05/25 09:20
380-139078-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	03/03/25 10:46	03/05/25 09:20
380-139078-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	03/03/25 10:46	03/05/25 09:20

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins

Loc: 380
 Env 139078

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Arada, Rachele	Carrier Tracking No(s): N/A	COC No: 380-196443.1	
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Rachele.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1	
Company: Eurofins Environment Testing Southwest,			Accreditations Required (See note): State - Hawaii		Job #: 380-139078-1	
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 3/18/2025	Analysis Requested			Preservation Codes:
City: Tustin		TAT Requested (days): N/A				
State, Zip: CA, 92780		PO #: N/A	Field Filled Sample (Vialage No) Perform MSMSD (Vialage No) 8015B_DRO_LL_CS0510C_LL_HNL_Ranges: C10- C24/C24-C36/C8-C18	8015B_GRO_LL05030C (MOD) GRO	625_1_SIMV625_Prep (MOD) Extended PAH List	Total Number of Containers
Phone: 714-895-5494(Tel)		WO #: N/A				
Email: N/A		Project #: 38001111	Other: N/A			
Project Name: RED-HILL		SSOW#: N/A				
Site: Honolulu BWS Sites						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soils, Onwater, ST=Tissue, Air)	Special Instructions/Note:	
Preservation Code:						
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-139078-1)	3/3/25	10:28 Hawaiian	G	Water	X	MRLs are needed. Confirm any hits >RL.
TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-139078-2)	3/3/25	10:28 Hawaiian	G	Water	X	MRLs are needed.
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-139078-3)	3/3/25	10:46 Hawaiian	G	Water	X X X	MRLs are needed. Confirm any hits >RL.
TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-139078-4)	3/3/25	10:46 Hawaiian	G	Water	X	MRLs are needed.



380-139078 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:
Primary Deliverable Rank: 2	

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 3/16/25 1235	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8/2.0 909
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-139078-1

SDG Number: Weekly

Login Number: 139078

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez Velasquez, Gustavo

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	False	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-139078-1

SDG Number: Weekly

Login Number: 139078

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 03/06/25 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

