

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weely: Halawa Shaft Viewing Pool
RUSH Weekly Red Hill

JOB NUMBER

380-157363-1

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: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

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: 380-157363-1

Job ID: 380-157363-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-157363-1

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 6/26/2025 9:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC/MS Semi VOA

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: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-1

☐ No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-1

Date Collected: 06/24/25 09:15

Matrix: Drinking Water

Date Received: 06/26/25 09:47

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		06/27/25 13:18	06/29/25 15:07	1
2,4'-DDD	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
2,4'-DDE	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
2,4'-DDT	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
4,4'-DDD	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
4,4'-DDE	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
4,4'-DDT	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Acenaphthene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Acenaphthylene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Acetochlor	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Alachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
alpha-BHC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
alpha-Chlordane	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Anthracene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 15:07	1
Atrazine	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 15:07	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 15:07	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 15:07	1
beta-BHC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/27/25 13:18	06/29/25 15:07	1
Bromacil	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Butachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/27/25 13:18	06/29/25 15:07	1
Chlorobenzilate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Chloroneb	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Chlorpyrifos	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Chrysene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 15:07	1
delta-BHC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/27/25 13:18	06/29/25 15:07	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Dieldrin	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Diethylphthalate	<0.49		0.49	ug/L		06/27/25 13:18	06/29/25 15:07	1
Dimethylphthalate	<0.49		0.49	ug/L		06/27/25 13:18	06/29/25 15:07	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/27/25 13:18	06/29/25 15:07	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Endrin	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Endrin aldehyde	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
EPTC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Fluoranthene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1

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Client Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-1

Date Collected: 06/24/25 09:15

Matrix: Drinking Water

Date Received: 06/26/25 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
gamma-Chlordane	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Heptachlor	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Isophorone	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Lindane	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Malathion	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Methoxychlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Metolachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Molinate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Naphthalene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Parathion	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Phenanthrene	<0.039		0.039	ug/L		06/27/25 13:18	06/29/25 15:07	1
Propachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Pyrene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Simazine	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Terbacil	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Terbutylazine	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Thiobencarb	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/27/25 13:18	06/29/25 15:07	1
trans-Nonachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 15:07	1
Trifluralin	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 15:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/27/25 13:18	06/29/25 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	06/27/25 13:18	06/29/25 15:07	1
Perylene-d12	90		70 - 130	06/27/25 13:18	06/29/25 15:07	1
Triphenylphosphate	110		70 - 130	06/27/25 13:18	06/29/25 15:07	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		06/30/25 13:28	07/10/25 17:43	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Acenaphthene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Acenaphthylene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Anthracene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Chrysene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Fluoranthene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-1

Date Collected: 06/24/25 09:15

Matrix: Drinking Water

Date Received: 06/26/25 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Naphthalene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Phenanthrene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1
Pyrene	<0.19		0.19	ug/L		06/30/25 13:28	07/10/25 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		28 - 127	06/30/25 13:28	07/10/25 17:43	1
2-Fluorobiphenyl (Surr)	74		31 - 120	06/30/25 13:28	07/10/25 17:43	1
2-Fluorophenol (Surr)	37		17 - 120	06/30/25 13:28	07/10/25 17:43	1
Nitrobenzene-d5 (Surr)	67		27 - 120	06/30/25 13:28	07/10/25 17:43	1
Phenol-d6 (Surr)	22		10 - 120	06/30/25 13:28	07/10/25 17:43	1
p-Terphenyl-d14 (Surr)	71		45 - 120	06/30/25 13:28	07/10/25 17:43	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
Cyclopentane, 1,2,3,4,5-pentamethyl-	14	T J N	ug/L		2.71	1000152-79-7	06/30/25 13:28	07/14/25 09:24	1
1-Heptene, 4-methyl-	9.5	T J N	ug/L		2.80	13151-05-8	06/30/25 13:28	07/14/25 09:24	1
1,3-Dimethylcyclohexane,c&t	12	T J N	ug/L		2.91	591-21-9	06/30/25 13:28	07/14/25 09:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		33 - 139	06/30/25 13:28	07/14/25 09:24	1
2-Fluorobiphenyl (Surr)	89		33 - 126	06/30/25 13:28	07/14/25 09:24	1
2-Fluorophenol (Surr)	45		12 - 120	06/30/25 13:28	07/14/25 09:24	1
Nitrobenzene-d5 (Surr)	91		36 - 120	06/30/25 13:28	07/14/25 09:24	1
Phenol-d6 (Surr)	27		10 - 120	06/30/25 13:28	07/14/25 09:24	1
p-Terphenyl-d14 (Surr)	83		47 - 131	06/30/25 13:28	07/14/25 09:24	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			06/28/25 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134		06/28/25 18:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/30/25 09:17	07/06/25 08:02	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/30/25 09:17	07/06/25 08:02	1
C8-C18	<25		25	ug/L		06/30/25 09:17	07/06/25 08:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		60 - 130	06/30/25 09:17	07/06/25 08:02	1

Client Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-2

Date Collected: 06/24/25 09:15

Matrix: Water

Date Received: 06/26/25 09:47

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			06/28/25 21:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134				06/28/25 21:40	1

Action Limit Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-1

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

Surrogate Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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)				
380-157363-1	Halawa Shaft Viewing Pool	94	90	110				
380-157363-1 DU	Halawa Shaft Viewing Pool	96	91	108				
Surrogate Legend								
2NMX = 2-Nitro-m-xylene								
PRY = Perylene-d12								
TPP = Triphenylphosphate								

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		2NMX (70-130)	PRY (70-130)	TPP (70-130)				
380-157341-E-1-A MS	Matrix Spike	95	96	112				
LCS 380-160149/23-A	Lab Control Sample	93	97	112				
MB 380-160149/21-A	Method Blank	93	87	106				
MRL 380-160149/22-A	Lab Control Sample	93	94	109				
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)		
380-157363-1	Halawa Shaft Viewing Pool	87	89	45	91	27	83		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									
PHL6 = Phenol-d6 (Surr)									
TPHd14 = p-Terphenyl-d14 (Surr)									

Method: 625.1 - 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 570-591305/1-A	Method Blank	84	84	54	91	35	89		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									

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Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-157363-1	Halawa Shaft Viewing Pool	75	74	37	67	22	71

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-157517-A-1-B MS	Matrix Spike	83	89	53	74	33	83
380-157517-A-1-C MSD	Matrix Spike Duplicate	82	83	51	70	33	82
LCS 570-591305/2-A	Lab Control Sample	84	85	58	72	38	79
LCSD 570-591305/3-A	Lab Control Sample Dup	78	83	55	69	36	83
MB 570-591305/1-A	Method Blank	85	76	51	81	32	80

Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-157363-1	Halawa Shaft Viewing Pool	77

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-157363-2	TB: Halawa Shaft Viewing Pool	78
380-157517-B-1 MS	Matrix Spike	89
380-157517-B-1 MSD	Matrix Spike Duplicate	87

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Surrogate Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
LCS 570-590669/4	Lab Control Sample	90
LCSD 570-590669/5	Lab Control Sample Dup	86
MB 570-590669/6	Method Blank	75
MRL 570-590669/3	Lab Control Sample	79

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)
380-157363-1	Halawa Shaft Viewing Pool	99

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)
380-157517-C-1-A MS	Matrix Spike	108
380-157517-C-1-B MSD	Matrix Spike Duplicate	112
LCS 570-591116/2-A	Lab Control Sample	104
LCSD 570-591116/3-A	Lab Control Sample Dup	117
MB 570-591116/1-A	Method Blank	100
MRL 570-591116/4-A	Lab Control Sample	107

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-160149/21-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 160149

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
2,4'-DDD	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
2,4'-DDE	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
2,4'-DDT	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
4,4'-DDD	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
4,4'-DDE	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
4,4'-DDT	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Acenaphthene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Acenaphthylene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Acetochlor	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Alachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
alpha-BHC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
alpha-Chlordane	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Anthracene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 14:26	1
Atrazine	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 14:26	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 14:26	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 14:26	1
beta-BHC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/27/25 13:18	06/29/25 14:26	1
Bromacil	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Butachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/27/25 13:18	06/29/25 14:26	1
Chlorobenzilate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Chloroneb	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Chlorpyrifos	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Chrysene	<0.020		0.020	ug/L		06/27/25 13:18	06/29/25 14:26	1
delta-BHC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/27/25 13:18	06/29/25 14:26	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Dieldrin	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Diethylphthalate	<0.49		0.49	ug/L		06/27/25 13:18	06/29/25 14:26	1
Dimethylphthalate	<0.49		0.49	ug/L		06/27/25 13:18	06/29/25 14:26	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/27/25 13:18	06/29/25 14:26	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Endrin	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Endrin aldehyde	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
EPTC	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1

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QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-160149/21-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 160149

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Fluorene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
gamma-Chlordane	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Heptachlor	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Isophorone	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Lindane	<0.0098		0.0098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Malathion	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Methoxychlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Metolachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Molinate	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Naphthalene	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Parathion	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Phenanthrene	<0.039		0.039	ug/L		06/27/25 13:18	06/29/25 14:26	1
Propachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Pyrene	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Simazine	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Terbacil	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Terbutylazine	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Thiobencarb	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/27/25 13:18	06/29/25 14:26	1
trans-Nonachlor	<0.049		0.049	ug/L		06/27/25 13:18	06/29/25 14:26	1
Trifluralin	<0.098		0.098	ug/L		06/27/25 13:18	06/29/25 14:26	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.972	T J N	ug/L		2.53	1000154-28-6	06/27/25 13:18	06/29/25 14:26	1
Tridecane, 6-methyl-	0.628	T J N	ug/L		2.65	13287-21-3	06/27/25 13:18	06/29/25 14:26	1
Decane	2.58	T J N	ug/L		2.78	124-18-5	06/27/25 13:18	06/29/25 14:26	1
Phenol, m-tert-butyl-	0.799	T J N	ug/L		3.86	585-34-2	06/27/25 13:18	06/29/25 14:26	1
Unknown	0.517	T J	ug/L		4.73	N/A	06/27/25 13:18	06/29/25 14:26	1
9-Octadecenamide, (Z)-	1.01	T J N	ug/L		7.91	301-02-0	06/27/25 13:18	06/29/25 14:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	93		70 - 130	06/27/25 13:18	06/29/25 14:26	1
Perylene-d12	87		70 - 130	06/27/25 13:18	06/29/25 14:26	1
Triphenylphosphate	106		70 - 130	06/27/25 13:18	06/29/25 14:26	1

Lab Sample ID: LCS 380-160149/23-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.89		ug/L		96	70 - 130

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QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-160149/23-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	2.20		ug/L		112	70 - 130
2,4'-DDE	1.97	2.03		ug/L		103	70 - 130
2,4'-DDT	1.97	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.97	2.13		ug/L		108	70 - 130
2,6-Dinitrotoluene	1.97	1.81		ug/L		92	70 - 130
2-Methylnaphthalene	1.97	1.90		ug/L		97	70 - 130
4,4'-DDD	1.97	2.17		ug/L		110	70 - 130
4,4'-DDE	1.97	2.14		ug/L		109	70 - 130
4,4'-DDT	1.97	1.98		ug/L		101	70 - 130
Acenaphthene	1.97	1.90		ug/L		96	70 - 130
Acenaphthylene	1.97	2.08		ug/L		105	70 - 130
Acetochlor	1.97	2.03		ug/L		103	70 - 130
Alachlor	1.97	2.05		ug/L		104	70 - 130
alpha-BHC	1.97	1.96		ug/L		100	70 - 130
alpha-Chlordane	1.97	2.32		ug/L		118	70 - 130
Anthracene	1.97	2.01		ug/L		102	70 - 130
Atrazine	1.97	2.16		ug/L		110	70 - 130
Benz(a)anthracene	1.97	2.09		ug/L		106	70 - 130
Benzo[a]pyrene	1.97	2.16		ug/L		110	70 - 130
Benzo[b]fluoranthene	1.97	2.14		ug/L		109	70 - 130
Benzo[g,h,i]perylene	1.97	1.86		ug/L		95	70 - 130
Benzo[k]fluoranthene	1.97	2.06		ug/L		105	70 - 130
beta-BHC	1.97	1.96		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.77		ug/L		90	70 - 130
Bromacil	1.97	1.99		ug/L		101	70 - 130
Butachlor	1.97	2.02		ug/L		102	70 - 130
Butylbenzylphthalate	1.97	2.00		ug/L		102	70 - 130
Chlorobenzilate	1.97	1.87		ug/L		95	70 - 130
Chloroneb	1.97	1.98		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.23		ug/L		113	70 - 130
Chlorpyrifos	1.97	2.16		ug/L		110	70 - 130
Chrysene	1.97	1.99		ug/L		101	70 - 130
delta-BHC	1.97	1.86		ug/L		94	70 - 130
Di(2-ethylhexyl)adipate	1.97	1.95		ug/L		99	70 - 130
Dibenz(a,h)anthracene	1.97	1.92		ug/L		98	70 - 130
Diclorvos (DDVP)	1.97	1.99		ug/L		101	70 - 130
Dieldrin	1.97	1.99		ug/L		101	70 - 130
Diethylphthalate	1.97	2.09		ug/L		106	70 - 130
Dimethylphthalate	1.97	2.02		ug/L		103	70 - 130
Di-n-butyl phthalate	3.94	4.94		ug/L		126	70 - 130
Di-n-octyl phthalate	1.97	1.91		ug/L		97	70 - 130
Endosulfan I (Alpha)	1.97	1.92		ug/L		98	70 - 130
Endosulfan II (Beta)	1.97	1.89		ug/L		96	70 - 130
Endosulfan sulfate	1.97	1.92		ug/L		98	70 - 130
Endrin	1.97	2.19		ug/L		111	70 - 130
Endrin aldehyde	1.97	2.14		ug/L		109	60 - 130
EPTC	1.97	2.03		ug/L		103	70 - 130
Fluoranthene	1.97	2.17		ug/L		110	70 - 130
Fluorene	1.97	2.02		ug/L		103	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-160149/23-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.97	2.28		ug/L		116	70 - 130
Heptachlor	1.97	2.25		ug/L		114	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.21		ug/L		112	70 - 130
Hexachlorobenzene	1.97	2.09		ug/L		106	70 - 130
Hexachlorocyclopentadiene	1.97	2.37		ug/L		121	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.11		ug/L		107	70 - 130
Isophorone	1.97	2.11		ug/L		107	70 - 130
Lindane	1.97	2.10		ug/L		107	70 - 130
Malathion	1.97	2.05		ug/L		104	70 - 130
Methoxychlor	1.97	2.17		ug/L		110	70 - 130
Metolachlor	1.97	2.15		ug/L		109	70 - 130
Molinate	1.97	2.11		ug/L		107	70 - 130
Naphthalene	1.97	1.90		ug/L		97	70 - 130
Parathion	1.97	1.90		ug/L		96	70 - 130
Pendimethalin (Penoxaline)	1.97	2.29		ug/L		116	70 - 130
Phenanthrene	1.97	1.90		ug/L		96	70 - 130
Propachlor	1.97	2.02		ug/L		103	70 - 130
Pyrene	1.97	2.20		ug/L		112	70 - 130
Simazine	1.97	1.93		ug/L		98	70 - 130
Terbacil	1.97	1.97		ug/L		100	70 - 130
Terbutylazine	1.97	2.09		ug/L		106	70 - 130
Thiobencarb	1.97	2.09		ug/L		106	70 - 130
trans-Nonachlor	1.97	2.39		ug/L		121	70 - 130
Trifluralin	1.97	2.23		ug/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: MRL 380-160149/22-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0980	0.116		ug/L		118	50 - 150
2,4'-DDD	0.0980	0.0954	J	ug/L		97	50 - 150
2,4'-DDE	0.0980	0.105		ug/L		107	50 - 150
2,4'-DDT	0.0980	0.122		ug/L		125	50 - 150
2,4-Dinitrotoluene	0.0980	0.120		ug/L		123	50 - 150
2,6-Dinitrotoluene	0.0980	0.115		ug/L		117	50 - 150
2-Methylnaphthalene	0.0980	0.108		ug/L		110	50 - 150
4,4'-DDD	0.0980	0.104		ug/L		106	50 - 150
4,4'-DDE	0.0980	0.0986		ug/L		101	50 - 150
4,4'-DDT	0.0980	0.123		ug/L		126	50 - 150
Acenaphthene	0.0980	0.0955	J	ug/L		97	50 - 150
Acenaphthylene	0.0980	0.0924	J	ug/L		94	50 - 150
Acetochlor	0.0980	0.103		ug/L		105	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-160149/22-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	0.0490	0.0510		ug/L		104	50 - 150
alpha-BHC	0.0980	0.0974	J	ug/L		99	50 - 150
alpha-Chlordane	0.0245	0.0281	J	ug/L		115	50 - 150
Anthracene	0.0196	0.0223		ug/L		114	50 - 150
Atrazine	0.0490	0.0627		ug/L		128	50 - 150
Benz(a)anthracene	0.0490	0.0562		ug/L		115	50 - 150
Benzo[a]pyrene	0.0196	0.0252		ug/L		129	50 - 150
Benzo[b]fluoranthene	0.0196	0.0241		ug/L		123	50 - 150
Benzo[g,h,i]perylene	0.0490	0.0538		ug/L		110	50 - 150
Benzo[k]fluoranthene	0.0196	0.0237		ug/L		121	50 - 150
beta-BHC	0.0980	0.107		ug/L		109	50 - 150
Bis(2-ethylhexyl) phthalate	0.588	0.506	J	ug/L		86	50 - 150
Bromacil	0.0980	0.119		ug/L		121	50 - 150
Butachlor	0.0490	0.0609		ug/L		124	50 - 150
Butylbenzylphthalate	0.490	0.510		ug/L		104	50 - 150
Chlorobenzilate	0.0980	0.109		ug/L		111	50 - 150
Chloroneb	0.0980	0.103		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0980	0.0925	J	ug/L		94	50 - 150
Chlorpyrifos	0.0490	0.0521		ug/L		106	50 - 150
Chrysene	0.0196	0.0226		ug/L		115	50 - 150
delta-BHC	0.0980	0.0880	J	ug/L		90	50 - 150
Di(2-ethylhexyl)adipate	0.588	0.581	J	ug/L		99	50 - 150
Dibenz(a,h)anthracene	0.0490	0.0575		ug/L		117	50 - 150
Diclorvos (DDVP)	0.0490	0.0577		ug/L		118	50 - 150
Dieldrin	0.00980	0.0114		ug/L		117	50 - 150
Diethylphthalate	0.490	0.525		ug/L		107	50 - 150
Dimethylphthalate	0.490	0.511		ug/L		104	50 - 150
Di-n-butyl phthalate	0.490	0.970	J	ug/L		198	49 - 243
Di-n-octyl phthalate	0.0980	0.0898	J	ug/L		92	50 - 150
Endosulfan I (Alpha)	0.0980	0.0836	J	ug/L		85	50 - 150
Endosulfan II (Beta)	0.0980	0.112		ug/L		114	50 - 150
Endosulfan sulfate	0.0980	0.113		ug/L		115	50 - 150
Endrin	0.00980	0.0138		ug/L		141	50 - 150
Endrin aldehyde	0.0980	0.121		ug/L		124	50 - 150
EPTC	0.0980	0.0953	J	ug/L		97	50 - 150
Fluoranthene	0.0980	0.107		ug/L		109	50 - 150
Fluorene	0.0490	0.0533		ug/L		109	50 - 150
gamma-Chlordane	0.0245	0.0267	J	ug/L		109	50 - 150
Heptachlor	0.00980	0.0122		ug/L		124	50 - 150
Heptachlor epoxide (isomer B)	0.00980	0.0124		ug/L		127	50 - 150
Hexachlorobenzene	0.0490	0.0535		ug/L		109	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0583		ug/L		119	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0605		ug/L		124	50 - 150
Isophorone	0.0980	0.125		ug/L		128	50 - 150
Lindane	0.00980	0.0128		ug/L		131	50 - 150
Malathion	0.0980	0.119		ug/L		122	50 - 150
Methoxychlor	0.0490	0.0612		ug/L		125	50 - 150
Metolachlor	0.0490	0.0589		ug/L		120	50 - 150
Molinate	0.0980	0.110		ug/L		112	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-160149/22-A

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0980	0.0981		ug/L		100	50 - 150
Parathion	0.0980	0.0961	J	ug/L		98	50 - 150
Pendimethalin (Penoxaline)	0.0980	0.124		ug/L		126	50 - 150
Phenanthrene	0.0392	0.0437		ug/L		111	50 - 150
Propachlor	0.0490	0.0567		ug/L		116	50 - 150
Pyrene	0.0490	0.0531		ug/L		108	50 - 150
Simazine	0.0490	0.0618		ug/L		126	50 - 150
Terbacil	0.0980	0.103		ug/L		105	50 - 150
Terbutylazine	0.0980	0.115		ug/L		118	50 - 150
Thiobencarb	0.0980	0.100		ug/L		102	50 - 150
trans-Nonachlor	0.0245	0.0269	J	ug/L		110	50 - 150
Trifluralin	0.0980	0.125		ug/L		128	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-157341-E-1-A MS

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		1.96	1.90		ug/L		96	70 - 130
2,4'-DDD	<0.099		1.96	2.21		ug/L		113	70 - 130
2,4'-DDE	<0.099		1.96	2.08		ug/L		106	70 - 130
2,4'-DDT	<0.099		1.96	2.05		ug/L		105	70 - 130
2,4-Dinitrotoluene	<0.099		1.96	2.18		ug/L		111	70 - 130
2,6-Dinitrotoluene	<0.099		1.96	1.88		ug/L		96	70 - 130
2-Methylnaphthalene	<0.099		1.96	1.91		ug/L		97	70 - 130
4,4'-DDD	<0.099		1.96	2.19		ug/L		112	70 - 130
4,4'-DDE	<0.099		1.96	2.18		ug/L		111	70 - 130
4,4'-DDT	<0.099		1.96	1.99		ug/L		102	70 - 130
Acenaphthene	<0.099		1.96	1.88		ug/L		96	70 - 130
Acenaphthylene	<0.099		1.96	1.92		ug/L		98	70 - 130
Acetochlor	<0.099		1.96	2.09		ug/L		107	70 - 130
Alachlor	<0.050		1.96	2.11		ug/L		108	70 - 130
alpha-BHC	<0.099		1.96	1.95		ug/L		100	70 - 130
alpha-Chlordane	<0.050		1.96	2.40		ug/L		122	70 - 130
Anthracene	<0.020		1.96	1.55		ug/L		79	70 - 130
Atrazine	<0.050		1.96	2.13		ug/L		108	70 - 130
Benz(a)anthracene	<0.050		1.96	2.00		ug/L		102	70 - 130
Benzo[a]pyrene	<0.020		1.96	2.06		ug/L		105	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.08		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.050		1.96	1.88		ug/L		96	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.12		ug/L		108	70 - 130
beta-BHC	<0.099		1.96	1.92		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.87		ug/L		95	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-157341-E-1-A MS

Matrix: Water

Analysis Batch: 160270

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromacil	<0.099		1.96	2.08		ug/L		106	70 - 130
Butachlor	<0.050		1.96	2.06		ug/L		105	70 - 130
Butylbenzylphthalate	<0.50		1.96	1.94		ug/L		99	70 - 130
Chlorobenzilate	<0.099		1.96	1.88		ug/L		96	70 - 130
Chloroneb	<0.099		1.96	1.96		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.96	2.28		ug/L		117	70 - 130
Chlorpyrifos	<0.050		1.96	2.18		ug/L		111	70 - 130
Chrysene	<0.020		1.96	1.99		ug/L		102	70 - 130
delta-BHC	<0.099		1.96	1.86		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.01		ug/L		97	70 - 130
Dibenz(a,h)anthracene	<0.050		1.96	1.98		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.050		1.96	1.99		ug/L		102	70 - 130
Dieldrin	<0.0099		1.96	2.04		ug/L		104	70 - 130
Diethylphthalate	<0.50		1.96	2.09		ug/L		107	70 - 130
Dimethylphthalate	<0.50		1.96	2.04		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.99		3.91	4.67		ug/L		101	70 - 130
Di-n-octyl phthalate	<0.099		1.96	2.00		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.099		1.96	1.96		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.099		1.96	1.93		ug/L		98	70 - 130
Endosulfan sulfate	<0.099		1.96	1.92		ug/L		98	70 - 130
Endrin	<0.0099		1.96	2.28		ug/L		117	70 - 130
Endrin aldehyde	<0.099		1.96	1.76		ug/L		90	60 - 130
EPTC	<0.099		1.96	2.04		ug/L		104	70 - 130
Fluoranthene	<0.099		1.96	2.16		ug/L		110	70 - 130
Fluorene	<0.050		1.96	1.99		ug/L		102	70 - 130
gamma-Chlordane	<0.050		1.96	2.34		ug/L		120	70 - 130
Heptachlor	<0.0099		1.96	2.32		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		1.96	2.28		ug/L		117	70 - 130
Hexachlorobenzene	<0.050		1.96	2.07		ug/L		106	70 - 130
Hexachlorocyclopentadiene	<0.050		1.96	2.31		ug/L		118	70 - 130
Indeno[1,2,3-cd]pyrene	<0.050		1.96	2.18		ug/L		111	70 - 130
Isophorone	<0.099		1.96	2.16		ug/L		110	70 - 130
Lindane	<0.0099		1.96	2.11		ug/L		108	70 - 130
Malathion	<0.099		1.96	2.07		ug/L		106	70 - 130
Methoxychlor	<0.050		1.96	2.15		ug/L		110	70 - 130
Metolachlor	<0.050		1.96	2.19		ug/L		112	70 - 130
Molinate	<0.099		1.96	2.09		ug/L		107	70 - 130
Naphthalene	<0.099		1.96	1.92		ug/L		98	70 - 130
Parathion	<0.099		1.96	1.90		ug/L		97	70 - 130
Pendimethalin (Penoxaline)	<0.099		1.96	2.32		ug/L		119	70 - 130
Phenanthrene	<0.040		1.96	1.88		ug/L		96	70 - 130
Propachlor	<0.050		1.96	2.03		ug/L		104	70 - 130
Pyrene	<0.050		1.96	2.16		ug/L		110	70 - 130
Simazine	<0.050		1.96	1.98		ug/L		101	70 - 130
Terbacil	<0.099		1.96	2.01		ug/L		103	70 - 130
Terbutylazine	<0.099		1.96	2.08		ug/L		106	70 - 130
Thiobencarb	<0.099		1.96	2.12		ug/L		108	70 - 130
trans-Nonachlor	<0.050		1.96	2.44		ug/L		124	70 - 130
Trifluralin	<0.099		1.96	2.25		ug/L		115	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: 380-157363-1 DU
Matrix: Drinking Water
Analysis Batch: 160270

Client Sample ID: Halawa Shaft Viewing Pool
Prep Type: Total/NA
Prep Batch: 160149

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-157363-1 DU

Matrix: Drinking Water

Analysis Batch: 160270

Client Sample ID: Halawa Shaft Viewing Pool

Prep Type: Total/NA

Prep Batch: 160149

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
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
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	96		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	108		70 - 130

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

Lab Sample ID: MB 570-591305/1-A

Matrix: Water

Analysis Batch: 595340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 591305

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	06/30/25 13:28	07/10/25 12:59	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-591305/1-A
Matrix: Water
Analysis Batch: 595340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591305

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		33 - 139	06/30/25 13:28	07/10/25 12:59	1
2-Fluorobiphenyl (Surr)	84		33 - 126	06/30/25 13:28	07/10/25 12:59	1
2-Fluorophenol (Surr)	54		12 - 120	06/30/25 13:28	07/10/25 12:59	1
Nitrobenzene-d5 (Surr)	91		36 - 120	06/30/25 13:28	07/10/25 12:59	1
Phenol-d6 (Surr)	35		10 - 120	06/30/25 13:28	07/10/25 12:59	1
p-Terphenyl-d14 (Surr)	89		47 - 131	06/30/25 13:28	07/10/25 12:59	1

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

Lab Sample ID: MB 570-591305/1-A
Matrix: Water
Analysis Batch: 595314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591305

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Acenaphthene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Acenaphthylene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Anthracene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Chrysene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Fluoranthene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Fluorene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Naphthalene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Phenanthrene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1
Pyrene	<0.20		0.20	ug/L		06/30/25 13:28	07/10/25 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	06/30/25 13:28	07/10/25 10:54	1
2-Fluorobiphenyl (Surr)	76		31 - 120	06/30/25 13:28	07/10/25 10:54	1
2-Fluorophenol (Surr)	51		17 - 120	06/30/25 13:28	07/10/25 10:54	1
Nitrobenzene-d5 (Surr)	81		27 - 120	06/30/25 13:28	07/10/25 10:54	1
Phenol-d6 (Surr)	32		10 - 120	06/30/25 13:28	07/10/25 10:54	1
p-Terphenyl-d14 (Surr)	80		45 - 120	06/30/25 13:28	07/10/25 10:54	1

Lab Sample ID: LCS 570-591305/2-A
Matrix: Water
Analysis Batch: 595314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.2		ug/L		81	47 - 120
2-Methylnaphthalene	20.0	15.6		ug/L		78	43 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-591305/2-A

Matrix: Water

Analysis Batch: 595314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 591305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	17.9		ug/L		90	60 - 132
Acenaphthylene	20.0	18.5		ug/L		92	54 - 126
Anthracene	20.0	17.9		ug/L		90	43 - 120
Benzo[a]anthracene	20.0	17.9		ug/L		90	42 - 133
Benzo[a]pyrene	20.0	18.0		ug/L		90	32 - 148
Benzo[b]fluoranthene	20.0	18.4		ug/L		92	42 - 140
Benzo[g,h,i]perylene	20.0	17.9		ug/L		89	1 - 195
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146
Chrysene	20.0	18.0		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	18.3		ug/L		91	1 - 200
Fluoranthene	20.0	19.0		ug/L		95	43 - 121
Fluorene	20.0	18.5		ug/L		93	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.4		ug/L		87	1 - 151
Naphthalene	20.0	15.3		ug/L		76	36 - 120
Phenanthrene	20.0	17.8		ug/L		89	65 - 120
Pyrene	20.0	18.0		ug/L		90	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

Lab Sample ID: LCSD 570-591305/3-A

Matrix: Water

Analysis Batch: 595314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 591305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	15.9		ug/L		80	47 - 120	1	20
2-Methylnaphthalene	20.0	15.3		ug/L		77	43 - 120	2	20
Acenaphthene	20.0	17.7		ug/L		88	60 - 132	1	29
Acenaphthylene	20.0	17.9		ug/L		90	54 - 126	3	45
Anthracene	20.0	17.7		ug/L		88	43 - 120	1	40
Benzo[a]anthracene	20.0	17.8		ug/L		89	42 - 133	1	32
Benzo[a]pyrene	20.0	17.8		ug/L		89	32 - 148	1	43
Benzo[b]fluoranthene	20.0	18.2		ug/L		91	42 - 140	1	43
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195	1	61
Benzo[k]fluoranthene	20.0	18.0		ug/L		90	25 - 146	2	38
Chrysene	20.0	17.9		ug/L		90	44 - 140	1	53
Dibenz(a,h)anthracene	20.0	18.0		ug/L		90	1 - 200	2	75
Fluoranthene	20.0	18.5		ug/L		93	43 - 121	2	40
Fluorene	20.0	18.1		ug/L		91	70 - 120	2	23
Indeno[1,2,3-cd]pyrene	20.0	17.3		ug/L		87	1 - 151	0	60
Naphthalene	20.0	14.9		ug/L		75	36 - 120	2	39
Phenanthrene	20.0	17.6		ug/L		88	65 - 120	1	24
Pyrene	20.0	18.2		ug/L		91	70 - 120	1	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-591305/3-A

Matrix: Water

Analysis Batch: 595314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 591305

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	55		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: 380-157517-A-1-B MS

Matrix: Water

Analysis Batch: 595314

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 591305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.20		19.2	17.2		ug/L		89	36 - 120
2-Methylnaphthalene	<0.20		19.2	16.0		ug/L		83	32 - 124
Acenaphthene	<0.20		19.2	18.8		ug/L		98	47 - 145
Acenaphthylene	<0.20		19.2	18.8		ug/L		98	33 - 145
Anthracene	<0.20		19.2	18.6		ug/L		96	27 - 133
Benzo[a]anthracene	<0.20		19.2	18.7		ug/L		97	33 - 143
Benzo[a]pyrene	<0.20		19.2	18.8		ug/L		98	17 - 163
Benzo[b]fluoranthene	<0.20		19.2	19.5		ug/L		101	24 - 159
Benzo[g,h,i]perylene	<0.20		19.2	18.9		ug/L		98	1 - 219
Benzo[k]fluoranthene	<0.20		19.2	18.7		ug/L		97	11 - 162
Chrysene	<0.20		19.2	18.7		ug/L		97	17 - 168
Dibenz(a,h)anthracene	<0.20		19.2	19.1		ug/L		99	1 - 227
Fluoranthene	<0.20		19.2	19.9		ug/L		103	26 - 137
Fluorene	<0.20		19.2	19.0		ug/L		99	59 - 121
Indeno[1,2,3-cd]pyrene	<0.20		19.2	17.9		ug/L		93	1 - 171
Naphthalene	<0.20		19.2	15.7		ug/L		82	21 - 133
Phenanthrene	<0.20		19.2	18.3		ug/L		95	54 - 120
Pyrene	<0.20		19.2	19.3		ug/L		100	52 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	89		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: 380-157517-A-1-C MSD

Matrix: Water

Analysis Batch: 595314

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 591305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.20		19.2	16.7		ug/L		87	36 - 120	3	30
2-Methylnaphthalene	<0.20		19.2	16.0		ug/L		83	32 - 124	0	30
Acenaphthene	<0.20		19.2	18.4		ug/L		96	47 - 145	2	48
Acenaphthylene	<0.20		19.2	18.5		ug/L		96	33 - 145	1	74

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-157517-A-1-C MSD

Matrix: Water

Analysis Batch: 595314

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 591305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	<0.20		19.2	18.4		ug/L		96	27 - 133	1	66
Benzo[a]anthracene	<0.20		19.2	18.8		ug/L		98	33 - 143	1	53
Benzo[a]pyrene	<0.20		19.2	18.7		ug/L		97	17 - 163	0	72
Benzo[b]fluoranthene	<0.20		19.2	19.1		ug/L		99	24 - 159	2	71
Benzo[g,h,i]perylene	<0.20		19.2	18.0		ug/L		93	1 - 219	5	97
Benzo[k]fluoranthene	<0.20		19.2	19.0		ug/L		99	11 - 162	1	63
Chrysene	<0.20		19.2	18.6		ug/L		97	17 - 168	0	87
Dibenz(a,h)anthracene	<0.20		19.2	18.2		ug/L		95	1 - 227	5	126
Fluoranthene	<0.20		19.2	19.3		ug/L		100	26 - 137	3	66
Fluorene	<0.20		19.2	18.8		ug/L		98	59 - 121	1	38
Indeno[1,2,3-cd]pyrene	<0.20		19.2	17.3		ug/L		90	1 - 171	3	99
Naphthalene	<0.20		19.2	15.2		ug/L		79	21 - 133	3	65
Phenanthrene	<0.20		19.2	18.2		ug/L		95	54 - 120	0	39
Pyrene	<0.20		19.2	19.1		ug/L		100	52 - 120	1	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

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

Lab Sample ID: MB 570-590669/6

Matrix: Water

Analysis Batch: 590669

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/28/25 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		38 - 134		06/28/25 13:35	1

Lab Sample ID: LCS 570-590669/4

Matrix: Water

Analysis Batch: 590669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	350		ug/L		88	78 - 120

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-590669/5

Matrix: Water

Analysis Batch: 590669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	344		ug/L		86	78 - 120	2	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	86		38 - 134								

Lab Sample ID: MRL 570-590669/3

Matrix: Water

Analysis Batch: 590669

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	11.2		ug/L		112	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	79		38 - 134								

Lab Sample ID: 380-157517-B-1 MS

Matrix: Water

Analysis Batch: 590669

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	333		ug/L		83	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	89		38 - 134								

Lab Sample ID: 380-157517-B-1 MSD

Matrix: Water

Analysis Batch: 590669

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	319		ug/L		80	68 - 122	4	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	87		38 - 134								

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

Lab Sample ID: MB 570-591116/1-A

Matrix: Water

Analysis Batch: 593381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 591116

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/30/25 09:15	07/06/25 02:35	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/30/25 09:15	07/06/25 02:35	1
C8-C18	<25		25	ug/L		06/30/25 09:15	07/06/25 02:35	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 130	06/30/25 09:15	07/06/25 02:35	1

Lab Sample ID: LCS 570-591116/2-A
Matrix: Water
Analysis Batch: 593381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1420		ug/L		88	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	104		60 - 130

Lab Sample ID: LCSD 570-591116/3-A
Matrix: Water
Analysis Batch: 593381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591116

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1590		ug/L		99	56 - 127	11	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	117		60 - 130

Lab Sample ID: MRL 570-591116/4-A
Matrix: Water
Analysis Batch: 593381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591116

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0258		mg/L		129	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
n-Octacosane (Surr)	107		60 - 130

Lab Sample ID: 380-157517-C-1-A MS
Matrix: Water
Analysis Batch: 593381

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 591116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1640	1520		ug/L		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane (Surr)	108		60 - 130

Lab Sample ID: 380-157517-C-1-B MSD
Matrix: Water
Analysis Batch: 593381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 591116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1640	1600		ug/L		98	70 - 130	5	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-157517-C-1-B MSD
Matrix: Water
Analysis Batch: 593381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 591116

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	112		60 - 130

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QC Association Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 160149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	
MB 380-160149/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-160149/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-160149/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-157341-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-157363-1 DU	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	

Analysis Batch: 160270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	160149
MB 380-160149/21-A	Method Blank	Total/NA	Water	525.2	160149
LCS 380-160149/23-A	Lab Control Sample	Total/NA	Water	525.2	160149
MRL 380-160149/22-A	Lab Control Sample	Total/NA	Water	525.2	160149
380-157341-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	160149
380-157363-1 DU	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	160149

Prep Batch: 591305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	
MB 570-591305/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-591305/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-591305/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-157517-A-1-B MS	Matrix Spike	Total/NA	Water	625.1	
380-157517-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 595314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-591305/1-A	Method Blank	Total/NA	Water	625.1 SIM	591305
LCS 570-591305/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	591305
LCSD 570-591305/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	591305
380-157517-A-1-B MS	Matrix Spike	Total/NA	Water	625.1 SIM	591305
380-157517-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	591305

Analysis Batch: 595340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-591305/1-A	Method Blank	Total/NA	Water	625.1	591305

Analysis Batch: 595508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1 SIM	591305

Analysis Batch: 596752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	591305

GC VOA

Analysis Batch: 590669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B GRO LL	
380-157363-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

GC VOA (Continued)

Analysis Batch: 590669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-590669/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-590669/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-590669/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-590669/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-157517-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-157517-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 591116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	3510C	
MB 570-591116/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-591116/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-591116/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-591116/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-157517-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-157517-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 593381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-157363-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B	591116
MB 570-591116/1-A	Method Blank	Total/NA	Water	8015B	591116
LCS 570-591116/2-A	Lab Control Sample	Total/NA	Water	8015B	591116
LCSD 570-591116/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	591116
MRL 570-591116/4-A	Lab Control Sample	Total/NA	Water	8015B	591116
380-157517-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	591116
380-157517-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	591116

Lab Chronicle

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-1

Date Collected: 06/24/25 09:15

Matrix: Drinking Water

Date Received: 06/26/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			160149	IQ42	EA POM	06/27/25 13:18
Total/NA	Analysis	525.2		1	160270	Q8LA	EA POM	06/29/25 15:07
Total/NA	Prep	625.1			591305	TR8L	EET CAL 4	06/30/25 13:28
Total/NA	Analysis	625.1		1	596752	CG	EET CAL 4	07/14/25 09:24
Total/NA	Prep	625.1			591305	TR8L	EET CAL 4	06/30/25 13:28
Total/NA	Analysis	625.1 SIM		1	595508	PQS1	EET CAL 4	07/10/25 17:43
Total/NA	Analysis	8015B GRO LL		1	590669	W4LC	EET CAL 4	06/28/25 18:47
Total/NA	Prep	3510C			591116	TVD6	EET CAL 4	06/30/25 09:17
Total/NA	Analysis	8015B		1	593381	NR	EET CAL 4	07/06/25 08:02

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-157363-2

Date Collected: 06/24/25 09:15

Matrix: Water

Date Received: 06/26/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	590669	W4LC	EET CAL 4	06/28/25 21:40

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

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: 380-157363-1
SDG: Weely: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-157363-1	Halawa Shaft Viewing Pool	Drinking Water	06/24/25 09:15	06/26/25 09:47
380-157363-2	TB: Halawa Shaft Viewing Pool	Water	06/24/25 09:15	06/26/25 09:47

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



Environment Testing

Client Information		Sampler: Jason Rakofsky		Lab PM Arada, Rachele		Carrier Tracking No(s):		COC No: 380-28005-2757 1																							
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachele.Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1																							
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:																					
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		Field Filled Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1, 625.1, SIM 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18 525.2_PREC - (MOD) 525plus Plus TICs 537.1_DW_PREC - 537.1 Full List 533 - All Analytes Total Number of containers						Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate																					
City: Honolulu		TAT Requested (days):								Other:																					
State, Zip: HI, 96843		Compliance Project: ☐ Yes ☐ No																													
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023																													
Email: kiwamoto@hbws.org		WO #:																													
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111																													
Site: Hawaii		SSOW#:																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)		Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		625.1, 625.1, SIM		8015B_GRO_LL - (MOD) GRO		8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18		525.2_PREC - (MOD) 525plus Plus TICs		537.1_DW_PREC - 537.1 Full List		533 - All Analytes		Total Number of containers		Special Instructions/Note:			
						Preservation Code:																									
Halawa Shaft Viewing Pool		24-Jun-2025		0915		G		Water																							
Halawa Shaft Viewing Pool (Matrix Spike)								Water																							
Halawa Shaft Viewing Pool (Matrix Spike Duplicate)								Water																							
TB: Halawa Shaft Viewing Pool		24-Jun-2025		0915		G		Water																							
Aiea Gulch Pump 2								Water																							
Aiea Gulch Pump 2 (Matrix Spike)								Water																							
Aiea Gulch Pump 2 (Matrix Spike Duplicate)								Water																							
TB: Aiea Gulch Pump 2								Water																							

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

Chain of Custody Record



Er Loc: 380
157363

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Er Loc: 380
157363

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-157363-1

SDG Number: Weely: Halawa Shaft Viewing Pool

Login Number: 157363

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	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: 380-157363-1

SDG Number: Weely: Halawa Shaft Viewing Pool

Login Number: 157363

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/26/25 05:27 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	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	