

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

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

JOB NUMBER

380-178940-1

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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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: 380-178940-1

Job ID: 380-178940-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-178940-1

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

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

Receipt

The samples were received on 10/23/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.1°C and 4.4°C.

GC/MS Semi VOA

Method 525.2_PREC: The matrix spike (MS) recovery for preparation batch 380-183098 and analytical batch 380-183441 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.

Detection Summary

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool
PWSID Number: HI0000331

Lab Sample ID: 380-178940-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-2

No Detections.

- 1
- 2
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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: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-1

Date Collected: 10/21/25 09:40

Matrix: Drinking Water

Date Received: 10/23/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
2,4'-DDD	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
2,4'-DDE	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
2,4'-DDT	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
2-Methylnaphthalene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
4,4'-DDD	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
4,4'-DDE	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
4,4'-DDT	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Acenaphthene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Acenaphthylene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Acetochlor	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Alachlor	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
alpha-BHC	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
alpha-Chlordane	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Anthracene	<0.019	F1	0.019	ug/L		10/29/25 07:41	10/30/25 16:35	1
Atrazine	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/29/25 07:41	10/30/25 16:35	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/29/25 07:41	10/30/25 16:35	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/29/25 07:41	10/30/25 16:35	1
beta-BHC	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Bis(2-ethylhexyl) phthalate	<0.57		0.57	ug/L		10/29/25 07:41	10/30/25 16:35	1
Bromacil	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Butachlor	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/29/25 07:41	10/30/25 16:35	1
Chlorobenzilate	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Chloroneb	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Chlorpyrifos	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Chrysene	<0.019		0.019	ug/L		10/29/25 07:41	10/30/25 16:35	1
delta-BHC	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Di(2-ethylhexyl)adipate	<0.57		0.57	ug/L		10/29/25 07:41	10/30/25 16:35	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Dieldrin	<0.0096		0.0096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Diethylphthalate	<0.48		0.48	ug/L		10/29/25 07:41	10/30/25 16:35	1
Dimethylphthalate	<0.48		0.48	ug/L		10/29/25 07:41	10/30/25 16:35	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		10/29/25 07:41	10/30/25 16:35	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Endosulfan sulfate	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Endrin	<0.0096		0.0096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Endrin aldehyde	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
EPTC	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Fluoranthene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1

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Client Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-1

Date Collected: 10/21/25 09:40

Matrix: Drinking Water

Date Received: 10/23/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
gamma-Chlordane	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Heptachlor	<0.0096		0.0096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Isophorone	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Lindane	<0.0096		0.0096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Malathion	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Methoxychlor	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Metolachlor	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Molinate	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Naphthalene	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Parathion	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Phenanthrene	<0.038		0.038	ug/L		10/29/25 07:41	10/30/25 16:35	1
Propachlor	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Pyrene	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Simazine	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Terbacil	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Terbutylazine	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Thiobencarb	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/29/25 07:41	10/30/25 16:35	1
trans-Nonachlor	<0.048		0.048	ug/L		10/29/25 07:41	10/30/25 16:35	1
Trifluralin	<0.096		0.096	ug/L		10/29/25 07:41	10/30/25 16:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/29/25 07:41	10/30/25 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	104		70 - 130	10/29/25 07:41	10/30/25 16:35	1
Perylene-d12	87		70 - 130	10/29/25 07:41	10/30/25 16:35	1
Triphenylphosphate	102		70 - 130	10/29/25 07:41	10/30/25 16:35	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		10/27/25 08:06	11/05/25 10:54	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Acenaphthene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Acenaphthylene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Anthracene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Chrysene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Fluoranthene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-1

Date Collected: 10/21/25 09:40

Matrix: Drinking Water

Date Received: 10/23/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Naphthalene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Phenanthrene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1
Pyrene	<0.19		0.19	ug/L		10/27/25 08:06	11/05/25 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		28 - 127	10/27/25 08:06	11/05/25 10:54	1
2-Fluorobiphenyl (Surr)	78		31 - 120	10/27/25 08:06	11/05/25 10:54	1
2-Fluorophenol (Surr)	50		17 - 120	10/27/25 08:06	11/05/25 10:54	1
Nitrobenzene-d5 (Surr)	83		27 - 120	10/27/25 08:06	11/05/25 10:54	1
Phenol-d6 (Surr)	31		10 - 120	10/27/25 08:06	11/05/25 10:54	1
p-Terphenyl-d14 (Surr)	81		45 - 120	10/27/25 08:06	11/05/25 10:54	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
Tentatively Identified Compound	None		ug/L			N/A	10/27/25 08:06	11/10/25 08:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		33 - 139	10/27/25 08:06	11/10/25 08:13	1
2-Fluorobiphenyl (Surr)	89		33 - 126	10/27/25 08:06	11/10/25 08:13	1
2-Fluorophenol (Surr)	53		12 - 120	10/27/25 08:06	11/10/25 08:13	1
Nitrobenzene-d5 (Surr)	91		36 - 120	10/27/25 08:06	11/10/25 08:13	1
Phenol-d6 (Surr)	33		10 - 120	10/27/25 08:06	11/10/25 08:13	1
p-Terphenyl-d14 (Surr)	82		47 - 131	10/27/25 08:06	11/10/25 08:13	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			10/31/25 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		10/31/25 19:09	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		10/26/25 09:36	11/05/25 05:44	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/26/25 09:36	11/05/25 05:44	1
C8-C18	<25		25	ug/L		10/26/25 09:36	11/05/25 05:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130	10/26/25 09:36	11/05/25 05:44	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-2

Date Collected: 10/21/25 09:40

Matrix: Water

Date Received: 10/23/25 09:34

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			10/31/25 20:04	1

Client Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-2

Date Collected: 10/21/25 09:40

Matrix: Water

Date Received: 10/23/25 09:34

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	97		38 - 134		10/31/25 20:04	1

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- 15
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Action Limit Summary

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

Job ID: 380-178940-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-1

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.57		ug/L	6	0.57	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.57		ug/L	400	0.57	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	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: 380-178940-1
SDG: Weekly: 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)
380-178940-1	Halawa Shaft Viewing Pool	104	87	102
380-178940-1 MS	Halawa Shaft Viewing Pool	101	97	106

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)
380-179350-T-1-A DU	Duplicate	105	92	105
LCS 380-183098/23-A	Lab Control Sample	100	96	109
MB 380-183098/21-A	Method Blank	103	85	102
MRL 380-183098/22-A	Lab Control Sample	103	81	106

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)
380-178940-1	Halawa Shaft Viewing Pool	75	89	53	91	33	82

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

Method: 625.1 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)
380-178940-1	Halawa Shaft Viewing Pool	74	78	50	83	31	81

Surrogate Legend
 TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)

Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-178940-1

Project/Site: RED-HILL

SDG: Weekly: Halawa Shaft Viewing Pool

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-178571-A-1-A MS	Matrix Spike	81	83	61	77	40	88
380-178571-A-1-B MSD	Matrix Spike Duplicate	64	65	49	62	32	72
LCS 570-646557/2-A	Lab Control Sample	80	82	63	76	42	87
LCSD 570-646557/3-A	Lab Control Sample Dup	76	78	57	74	37	86
MB 570-646557/1-A	Method Blank	76	75	55	86	35	84

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-178940-1	Halawa Shaft Viewing Pool	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-178940-2	TB: Halawa Shaft Viewing Pool	97
380-179754-B-1 MS	Matrix Spike	99
380-179754-B-1 MSD	Matrix Spike Duplicate	97
LCS 570-649292/1009	Lab Control Sample	89
LCSD 570-649292/10	Lab Control Sample Dup	96
MB 570-649292/11	Method Blank	98
MRL 570-649292/1004	Lab Control Sample	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-130)
380-178940-1	Halawa Shaft Viewing Pool	112

Surrogate Legend

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Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

OTCSN = n-Octacosane (Surr)

Job ID: 380-178940-1

SDG: Weekly: Halawa Shaft Viewing Pool

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)
380-178571-B-1-A MS	Matrix Spike	116
380-178571-B-1-B MSD	Matrix Spike Duplicate	99
LCS 570-646316/2-A	Lab Control Sample	124
LCSD 570-646316/3-A	Lab Control Sample Dup	120
MB 570-646316/1-A	Method Blank	115
MRL 570-646316/4-A	Lab Control Sample	97

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-183098/21-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183098

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
2,4'-DDD	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
2,4'-DDE	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
2,4'-DDT	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
4,4'-DDD	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
4,4'-DDE	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
4,4'-DDT	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Acenaphthene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Acenaphthylene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Acetochlor	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Alachlor	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
alpha-BHC	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
alpha-Chlordane	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Anthracene	<0.020		0.020	ug/L		10/29/25 07:41	10/30/25 14:12	1
Atrazine	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Benz(a)anthracene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/29/25 07:41	10/30/25 14:12	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/29/25 07:41	10/30/25 14:12	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/29/25 07:41	10/30/25 14:12	1
beta-BHC	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/29/25 07:41	10/30/25 14:12	1
Bromacil	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Butachlor	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Butylbenzylphthalate	<0.50		0.50	ug/L		10/29/25 07:41	10/30/25 14:12	1
Chlorobenzilate	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Chloroneb	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Chlorpyrifos	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Chrysene	<0.020		0.020	ug/L		10/29/25 07:41	10/30/25 14:12	1
delta-BHC	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/29/25 07:41	10/30/25 14:12	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Dieldrin	<0.0099		0.0099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Diethylphthalate	<0.50		0.50	ug/L		10/29/25 07:41	10/30/25 14:12	1
Dimethylphthalate	<0.50		0.50	ug/L		10/29/25 07:41	10/30/25 14:12	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/29/25 07:41	10/30/25 14:12	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Endrin	<0.0099		0.0099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Endrin aldehyde	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
EPTC	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1

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QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-183098/21-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183098

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Fluorene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
gamma-Chlordane	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Heptachlor	<0.0099		0.0099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Hexachlorobenzene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Isophorone	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Lindane	<0.0099		0.0099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Malathion	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Methoxychlor	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Metolachlor	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Molinate	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Naphthalene	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Parathion	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Phenanthrene	<0.040		0.040	ug/L		10/29/25 07:41	10/30/25 14:12	1
Propachlor	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Pyrene	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Simazine	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Terbacil	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Terbutylazine	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Thiobencarb	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/29/25 07:41	10/30/25 14:12	1
trans-Nonachlor	<0.050		0.050	ug/L		10/29/25 07:41	10/30/25 14:12	1
Trifluralin	<0.099		0.099	ug/L		10/29/25 07:41	10/30/25 14:12	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Cyclopentene, 1,2,3,3,4-pentamethyl-</i>	1.97	T J N	ug/L		2.57	197390-29-7	10/29/25 07:41	10/30/25 14:12	1
<i>Decane, 2-methyl-</i>	1.35	T J N	ug/L		3.04	6975-98-0	10/29/25 07:41	10/30/25 14:12	1
<i>Undecane</i>	2.95	T J N	ug/L		3.17	1120-21-4	10/29/25 07:41	10/30/25 14:12	1
<i>Phenol, p-tert-butyl-</i>	1.19	T J N	ug/L		3.90	98-54-4	10/29/25 07:41	10/30/25 14:12	1
<i>Phenol, 4-(1,1-dimethylpropyl)-</i>	0.825	T J N	ug/L		4.30	80-46-6	10/29/25 07:41	10/30/25 14:12	1
<i>9-Octadecenamamide, (Z)-</i>	2.04	T J N	ug/L		7.94	301-02-0	10/29/25 07:41	10/30/25 14:12	1
<i>Unknown</i>	0.593	T J	ug/L		15.06	N/A	10/29/25 07:41	10/30/25 14:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	103		70 - 130	10/29/25 07:41	10/30/25 14:12	1
Perylene-d12	85		70 - 130	10/29/25 07:41	10/30/25 14:12	1
Triphenylphosphate	102		70 - 130	10/29/25 07:41	10/30/25 14:12	1

Lab Sample ID: LCS 380-183098/23-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	1.95		ug/L		98	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-183098/23-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.99	2.08		ug/L		105	70 - 130
2,4'-DDE	1.99	2.10		ug/L		106	70 - 130
2,4'-DDT	1.99	2.06		ug/L		104	70 - 130
2,4-Dinitrotoluene	1.99	1.88		ug/L		95	70 - 130
2,6-Dinitrotoluene	1.99	1.96		ug/L		99	70 - 130
2-Methylnaphthalene	1.99	1.97		ug/L		99	70 - 130
4,4'-DDD	1.99	2.12		ug/L		107	70 - 130
4,4'-DDE	1.99	1.99		ug/L		100	70 - 130
4,4'-DDT	1.99	2.12		ug/L		107	70 - 130
Acenaphthene	1.99	1.99		ug/L		100	70 - 130
Acenaphthylene	1.99	2.05		ug/L		103	70 - 130
Acetochlor	1.99	2.22		ug/L		112	70 - 130
Alachlor	1.99	2.00		ug/L		101	70 - 130
alpha-BHC	1.99	1.94		ug/L		98	70 - 130
alpha-Chlordane	1.99	1.88		ug/L		95	70 - 130
Anthracene	1.99	1.99		ug/L		100	70 - 130
Atrazine	1.99	2.31		ug/L		116	70 - 130
Benz(a)anthracene	1.99	2.11		ug/L		106	70 - 130
Benzo[a]pyrene	1.99	2.15		ug/L		108	70 - 130
Benzo[b]fluoranthene	1.99	2.13		ug/L		107	70 - 130
Benzo[g,h,i]perylene	1.99	2.04		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.99	1.98		ug/L		100	70 - 130
beta-BHC	1.99	2.24		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.40		ug/L		121	70 - 130
Bromacil	1.99	2.30		ug/L		116	70 - 130
Butachlor	1.99	2.11		ug/L		106	70 - 130
Butylbenzylphthalate	1.99	2.40		ug/L		121	70 - 130
Chlorobenzilate	1.99	2.44		ug/L		123	70 - 130
Chloroneb	1.99	1.96		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.12		ug/L		107	70 - 130
Chlorpyrifos	1.99	2.05		ug/L		103	70 - 130
Chrysene	1.99	1.94		ug/L		98	70 - 130
delta-BHC	1.99	1.97		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.43		ug/L		122	70 - 130
Dibenz(a,h)anthracene	1.99	2.00		ug/L		101	70 - 130
Diclorvos (DDVP)	1.99	2.13		ug/L		107	70 - 130
Dieldrin	1.99	1.92		ug/L		97	70 - 130
Diethylphthalate	1.99	2.16		ug/L		109	70 - 130
Dimethylphthalate	1.99	2.06		ug/L		104	70 - 130
Di-n-butyl phthalate	3.97	4.64		ug/L		117	70 - 130
Di-n-octyl phthalate	1.99	2.20		ug/L		111	70 - 130
Endosulfan I (Alpha)	1.99	2.09		ug/L		105	70 - 130
Endosulfan II (Beta)	1.99	2.16		ug/L		109	70 - 130
Endosulfan sulfate	1.99	2.16		ug/L		109	70 - 130
Endrin	1.99	2.03		ug/L		102	70 - 130
Endrin aldehyde	1.99	2.09		ug/L		105	60 - 130
EPTC	1.99	2.20		ug/L		111	70 - 130
Fluoranthene	1.99	2.22		ug/L		112	70 - 130
Fluorene	1.99	1.84		ug/L		93	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-183098/23-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.99	1.90		ug/L		96	70 - 130
Heptachlor	1.99	2.10		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	1.99	1.87		ug/L		94	70 - 130
Hexachlorobenzene	1.99	1.99		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.99	1.92		ug/L		97	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.07		ug/L		104	70 - 130
Isophorone	1.99	2.05		ug/L		103	70 - 130
Lindane	1.99	2.16		ug/L		109	70 - 130
Malathion	1.99	2.31		ug/L		116	70 - 130
Methoxychlor	1.99	2.17		ug/L		109	70 - 130
Metolachlor	1.99	2.04		ug/L		103	70 - 130
Molinate	1.99	2.25		ug/L		113	70 - 130
Naphthalene	1.99	2.01		ug/L		101	70 - 130
Parathion	1.99	2.33		ug/L		117	70 - 130
Pendimethalin (Penoxaline)	1.99	2.09		ug/L		105	70 - 130
Phenanthrene	1.99	2.04		ug/L		102	70 - 130
Propachlor	1.99	2.29		ug/L		115	70 - 130
Pyrene	1.99	2.25		ug/L		113	70 - 130
Simazine	1.99	2.16		ug/L		109	70 - 130
Terbacil	1.99	2.29		ug/L		115	70 - 130
Terbutylazine	1.99	2.31		ug/L		116	70 - 130
Thiobencarb	1.99	2.24		ug/L		113	70 - 130
trans-Nonachlor	1.99	1.77		ug/L		89	70 - 130
Trifluralin	1.99	2.03		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: MRL 380-183098/22-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.125		ug/L		126	50 - 150
2,4'-DDD	0.0993	0.0903	J	ug/L		91	50 - 150
2,4'-DDE	0.0993	0.107		ug/L		108	50 - 150
2,4'-DDT	0.0993	0.0999		ug/L		101	50 - 150
2,4-Dinitrotoluene	0.0993	0.0910	J	ug/L		92	50 - 150
2,6-Dinitrotoluene	0.0993	0.107		ug/L		108	50 - 150
2-Methylnaphthalene	0.0993	0.116		ug/L		117	50 - 150
4,4'-DDD	0.0993	0.0962	J	ug/L		97	50 - 150
4,4'-DDE	0.0993	0.0858	J	ug/L		86	50 - 150
4,4'-DDT	0.0993	0.112		ug/L		113	50 - 150
Acenaphthene	0.0993	0.0929	J	ug/L		94	50 - 150
Acenaphthylene	0.0993	0.0987	J	ug/L		99	50 - 150
Acetochlor	0.0993	0.111		ug/L		112	50 - 150

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-183098/22-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	0.0496	0.0550		ug/L		111	50 - 150
alpha-BHC	0.0993	0.112		ug/L		113	50 - 150
alpha-Chlordane	0.0248	0.0291	J	ug/L		117	50 - 150
Anthracene	0.0199	0.0201		ug/L		101	50 - 150
Atrazine	0.0496	0.0481	J	ug/L		97	50 - 150
Benz(a)anthracene	0.0496	0.0608		ug/L		123	50 - 150
Benzo[a]pyrene	0.0199	0.0204		ug/L		103	50 - 150
Benzo[b]fluoranthene	0.0199	0.0200		ug/L		101	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0471	J	ug/L		95	50 - 150
Benzo[k]fluoranthene	0.0199	0.0212		ug/L		107	50 - 150
beta-BHC	0.0993	0.101		ug/L		101	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.693		ug/L		116	50 - 150
Bromacil	0.0993	0.113		ug/L		114	50 - 150
Butachlor	0.0496	0.0627		ug/L		126	50 - 150
Butylbenzylphthalate	0.496	0.671		ug/L		135	50 - 150
Chlorobenzilate	0.0993	0.103		ug/L		104	50 - 150
Chloroneb	0.0993	0.0986	J	ug/L		99	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.0867	J	ug/L		87	50 - 150
Chlorpyrifos	0.0496	0.0462	J	ug/L		93	50 - 150
Chrysene	0.0199	0.0198	J	ug/L		100	50 - 150
delta-BHC	0.0993	0.107		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.715		ug/L		120	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0505		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0496	0.0616		ug/L		124	50 - 150
Dieldrin	0.00993	0.0101		ug/L		102	50 - 150
Diethylphthalate	0.496	0.599		ug/L		121	50 - 150
Dimethylphthalate	0.496	0.580		ug/L		117	50 - 150
Di-n-butyl phthalate	0.496	0.565	J	ug/L		114	49 - 243
Di-n-octyl phthalate	0.0993	0.0882	J	ug/L		89	50 - 150
Endosulfan I (Alpha)	0.0993	0.0939	J	ug/L		95	50 - 150
Endosulfan II (Beta)	0.0993	0.110		ug/L		111	50 - 150
Endosulfan sulfate	0.0993	0.106		ug/L		107	50 - 150
Endrin	0.00993	0.0115		ug/L		116	50 - 150
Endrin aldehyde	0.0993	0.108		ug/L		108	50 - 150
EPTC	0.0993	0.112		ug/L		113	50 - 150
Fluoranthene	0.0993	0.0965	J	ug/L		97	50 - 150
Fluorene	0.0496	0.0580		ug/L		117	50 - 150
gamma-Chlordane	0.0248	0.0273	J	ug/L		110	50 - 150
Heptachlor	0.00993	0.00753	J	ug/L		76	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0104		ug/L		105	50 - 150
Hexachlorobenzene	0.0496	0.0500		ug/L		101	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0469	J	ug/L		94	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0495	J	ug/L		100	50 - 150
Isophorone	0.0993	0.131		ug/L		132	50 - 150
Lindane	0.00993	0.0126		ug/L		127	50 - 150
Malathion	0.0993	0.0927	J	ug/L		93	50 - 150
Methoxychlor	0.0496	0.0594		ug/L		120	50 - 150
Metolachlor	0.0496	0.0598		ug/L		120	50 - 150
Molinate	0.0993	0.109		ug/L		110	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-183098/22-A
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0993	0.122		ug/L		123	50 - 150
Parathion	0.0993	0.0770	J	ug/L		78	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.0819	J	ug/L		83	50 - 150
Phenanthrene	0.0397	0.0403		ug/L		102	50 - 150
Propachlor	0.0496	0.0561		ug/L		113	50 - 150
Pyrene	0.0496	0.0487	J	ug/L		98	50 - 150
Simazine	0.0496	0.0460	J	ug/L		93	50 - 150
Terbacil	0.0993	0.110		ug/L		111	50 - 150
Terbutylazine	0.0993	0.0940	J	ug/L		95	50 - 150
Thiobencarb	0.0993	0.115		ug/L		115	50 - 150
trans-Nonachlor	0.0248	0.0266	J	ug/L		107	50 - 150
Trifluralin	0.0993	0.0842	J	ug/L		85	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
2-Nitro-m-xylene	103		70 - 130				
Perylene-d12	81		70 - 130				
Triphenylphosphate	106		70 - 130				

Lab Sample ID: 380-178940-1 MS
Matrix: Drinking Water
Analysis Batch: 183441

Client Sample ID: Halawa Shaft Viewing Pool
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.92	1.88		ug/L		97	70 - 130
2,4'-DDD	<0.096		1.92	2.01		ug/L		104	70 - 130
2,4'-DDE	<0.096		1.92	1.98		ug/L		103	70 - 130
2,4'-DDT	<0.096		1.92	1.88		ug/L		98	70 - 130
2,4-Dinitrotoluene	<0.096		1.92	1.98		ug/L		103	70 - 130
2,6-Dinitrotoluene	<0.096		1.92	1.90		ug/L		99	70 - 130
2-Methylnaphthalene	<0.096		1.92	1.95		ug/L		101	70 - 130
4,4'-DDD	<0.096		1.92	2.01		ug/L		105	70 - 130
4,4'-DDE	<0.096		1.92	1.83		ug/L		95	70 - 130
4,4'-DDT	<0.096		1.92	1.93		ug/L		100	70 - 130
Acenaphthene	<0.096		1.92	1.91		ug/L		99	70 - 130
Acenaphthylene	<0.096		1.92	1.96		ug/L		102	70 - 130
Acetochlor	<0.096		1.92	2.11		ug/L		110	70 - 130
Alachlor	<0.048		1.92	1.95		ug/L		101	70 - 130
alpha-BHC	<0.096		1.92	1.85		ug/L		96	70 - 130
alpha-Chlordane	<0.048		1.92	1.77		ug/L		92	70 - 130
Anthracene	<0.019	F1	1.92	1.18	F1	ug/L		61	70 - 130
Atrazine	<0.048		1.92	2.23		ug/L		116	70 - 130
Benz(a)anthracene	<0.048		1.92	1.89		ug/L		98	70 - 130
Benzo[a]pyrene	<0.019		1.92	1.84		ug/L		96	70 - 130
Benzo[b]fluoranthene	<0.019		1.92	2.11		ug/L		110	70 - 130
Benzo[g,h,i]perylene	<0.048		1.92	1.91		ug/L		99	70 - 130
Benzo[k]fluoranthene	<0.019		1.92	1.82		ug/L		95	70 - 130
beta-BHC	<0.096		1.92	2.16		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.57		1.92	2.10		ug/L		109	70 - 130

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-178940-1 MS
Matrix: Drinking Water
Analysis Batch: 183441

Client Sample ID: Halawa Shaft Viewing Pool
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromacil	<0.096		1.92	2.25		ug/L		117	70 - 130
Butachlor	<0.048		1.92	2.02		ug/L		105	70 - 130
Butylbenzylphthalate	<0.48		1.92	2.20		ug/L		114	70 - 130
Chlorobenzilate	<0.096		1.92	2.39		ug/L		124	70 - 130
Chloroneb	<0.096		1.92	1.92		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.92	2.03		ug/L		106	70 - 130
Chlorpyrifos	<0.048		1.92	1.97		ug/L		103	70 - 130
Chrysene	<0.019		1.92	1.90		ug/L		99	70 - 130
delta-BHC	<0.096		1.92	1.86		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	<0.57		1.92	2.03		ug/L		105	70 - 130
Dibenz(a,h)anthracene	<0.048		1.92	1.82		ug/L		95	70 - 130
Diclorvos (DDVP)	<0.048		1.92	2.08		ug/L		108	70 - 130
Dieldrin	<0.0096		1.92	1.83		ug/L		95	70 - 130
Diethylphthalate	<0.48		1.92	2.08		ug/L		108	70 - 130
Dimethylphthalate	<0.48		1.92	2.00		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.96		3.85	4.48		ug/L		116	70 - 130
Di-n-octyl phthalate	<0.096		1.92	1.91		ug/L		99	70 - 130
Endosulfan I (Alpha)	<0.096		1.92	1.99		ug/L		103	70 - 130
Endosulfan II (Beta)	<0.096		1.92	2.02		ug/L		105	70 - 130
Endosulfan sulfate	<0.096		1.92	2.01		ug/L		105	70 - 130
Endrin	<0.0096		1.92	1.89		ug/L		98	70 - 130
Endrin aldehyde	<0.096		1.92	1.89		ug/L		98	60 - 130
EPTC	<0.096		1.92	2.05		ug/L		107	70 - 130
Fluoranthene	<0.096		1.92	2.19		ug/L		114	70 - 130
Fluorene	<0.048		1.92	1.81		ug/L		94	70 - 130
gamma-Chlordane	<0.048		1.92	1.78		ug/L		93	70 - 130
Heptachlor	<0.0096		1.92	2.04		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.92	1.76		ug/L		92	70 - 130
Hexachlorobenzene	<0.048		1.92	1.97		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.048		1.92	1.96		ug/L		102	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.92	1.99		ug/L		104	70 - 130
Isophorone	<0.096		1.92	1.97		ug/L		103	70 - 130
Lindane	<0.0096		1.92	2.12		ug/L		110	70 - 130
Malathion	<0.096		1.92	2.19		ug/L		114	70 - 130
Methoxychlor	<0.048		1.92	2.17		ug/L		113	70 - 130
Metolachlor	<0.048		1.92	1.94		ug/L		101	70 - 130
Molinate	<0.096		1.92	2.16		ug/L		112	70 - 130
Naphthalene	<0.096		1.92	1.95		ug/L		101	70 - 130
Parathion	<0.096		1.92	2.24		ug/L		116	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.92	2.04		ug/L		106	70 - 130
Phenanthrene	<0.038		1.92	1.95		ug/L		101	70 - 130
Propachlor	<0.048		1.92	2.24		ug/L		117	70 - 130
Pyrene	<0.048		1.92	2.18		ug/L		113	70 - 130
Simazine	<0.048		1.92	2.08		ug/L		108	70 - 130
Terbacil	<0.096		1.92	2.26		ug/L		117	70 - 130
Terbutylazine	<0.096		1.92	2.26		ug/L		118	70 - 130
Thiobencarb	<0.096		1.92	2.13		ug/L		111	70 - 130
trans-Nonachlor	<0.048		1.92	1.63		ug/L		85	70 - 130
Trifluralin	<0.096		1.92	2.06		ug/L		107	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

<i>Surrogate</i>	<i>MS MS</i> %Recovery	<i>Qualifier</i>	<i>Limits</i>
2-Nitro- <i>m</i> -xylene	101		70 - 130
Perylene- <i>d</i> 12	97		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-179350-T-1-A DU
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
2,4'-DDD	<0.097		<0.096		ug/L		NC	20
2,4'-DDE	<0.097		<0.096		ug/L		NC	20
2,4'-DDT	<0.097		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
4,4'-DDD	<0.097		<0.096		ug/L		NC	20
4,4'-DDE	<0.097		<0.096		ug/L		NC	20
4,4'-DDT	<0.097		<0.096		ug/L		NC	20
Acenaphthene	<0.097		<0.096		ug/L		NC	20
Acenaphthylene	<0.097		<0.096		ug/L		NC	20
Acetochlor	<0.097		<0.096		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.096		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.096		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.096		ug/L		NC	20
Chloroneb	<0.097		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.096		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	0.037		0.0354		ug/L		5	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.096		ug/L		NC	20

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-179350-T-1-A DU
Matrix: Water
Analysis Batch: 183441

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 183098

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Endosulfan I (Alpha)	<0.097		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.096		ug/L		NC	20
Endrin	<0.0097		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.097		<0.096		ug/L		NC	20
EPTC	<0.097		<0.096		ug/L		NC	20
Fluoranthene	<0.097		<0.096		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0097		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.096		ug/L		NC	20
Lindane	<0.0097		<0.0096		ug/L		NC	20
Malathion	<0.097		<0.096		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.097		<0.096		ug/L		NC	20
Naphthalene	<0.097		<0.096		ug/L		NC	20
Parathion	<0.097		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.096		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.096		ug/L		NC	20
Terbutylazine	<0.097		<0.096		ug/L		NC	20
Thiobencarb	<0.097		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.096		ug/L		NC	20

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	105		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-646557/1-A
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646557

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Acenaphthene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-646557/1-A
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646557

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Anthracene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Chrysene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Fluoranthene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Fluorene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Naphthalene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Phenanthrene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1
Pyrene	<0.20		0.20	ug/L		10/27/25 08:06	11/05/25 05:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		28 - 127	10/27/25 08:06	11/05/25 05:40	1
2-Fluorobiphenyl (Surr)	75		31 - 120	10/27/25 08:06	11/05/25 05:40	1
2-Fluorophenol (Surr)	55		17 - 120	10/27/25 08:06	11/05/25 05:40	1
Nitrobenzene-d5 (Surr)	86		27 - 120	10/27/25 08:06	11/05/25 05:40	1
Phenol-d6 (Surr)	35		10 - 120	10/27/25 08:06	11/05/25 05:40	1
p-Terphenyl-d14 (Surr)	84		45 - 120	10/27/25 08:06	11/05/25 05:40	1

Lab Sample ID: LCS 570-646557/2-A
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.1		ug/L		71	47 - 120
2-Methylnaphthalene	20.0	13.9		ug/L		70	43 - 120
Acenaphthene	20.0	16.8		ug/L		84	60 - 132
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126
Anthracene	20.0	16.8		ug/L		84	43 - 120
Benzo[a]anthracene	20.0	17.0		ug/L		85	42 - 133
Benzo[a]pyrene	20.0	17.2		ug/L		86	32 - 148
Benzo[b]fluoranthene	20.0	17.3		ug/L		87	42 - 140
Benzo[g,h,i]perylene	20.0	16.6		ug/L		83	1 - 195
Benzo[k]fluoranthene	20.0	17.3		ug/L		87	25 - 146
Chrysene	20.0	17.4		ug/L		87	44 - 140
Dibenz(a,h)anthracene	20.0	17.5		ug/L		88	1 - 200
Fluoranthene	20.0	17.6		ug/L		88	43 - 121
Fluorene	20.0	17.0		ug/L		85	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.9		ug/L		84	1 - 151
Naphthalene	20.0	13.7		ug/L		69	36 - 120
Phenanthrene	20.0	17.0		ug/L		85	65 - 120
Pyrene	20.0	18.1		ug/L		91	70 - 120

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-646557/2-A
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646557

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

Lab Sample ID: LCSD 570-646557/3-A
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 646557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
1-Methylnaphthalene	20.0	13.8		ug/L		69	47 - 120	2	20	
2-Methylnaphthalene	20.0	13.7		ug/L		69	43 - 120	2	20	
Acenaphthene	20.0	16.5		ug/L		83	60 - 132	2	29	
Acenaphthylene	20.0	16.6		ug/L		83	54 - 126	3	45	
Anthracene	20.0	16.5		ug/L		82	43 - 120	2	40	
Benzo[a]anthracene	20.0	16.6		ug/L		83	42 - 133	3	32	
Benzo[a]pyrene	20.0	16.6		ug/L		83	32 - 148	3	43	
Benzo[b]fluoranthene	20.0	16.6		ug/L		83	42 - 140	4	43	
Benzo[g,h,i]perylene	20.0	16.1		ug/L		80	1 - 195	3	61	
Benzo[k]fluoranthene	20.0	16.9		ug/L		85	25 - 146	2	38	
Chrysene	20.0	16.8		ug/L		84	44 - 140	3	53	
Dibenz(a,h)anthracene	20.0	16.7		ug/L		84	1 - 200	5	75	
Fluoranthene	20.0	17.3		ug/L		87	43 - 121	2	40	
Fluorene	20.0	16.7		ug/L		84	70 - 120	2	23	
Indeno[1,2,3-cd]pyrene	20.0	16.5		ug/L		83	1 - 151	2	60	
Naphthalene	20.0	13.7		ug/L		69	36 - 120	0	39	
Phenanthrene	20.0	16.5		ug/L		82	65 - 120	3	24	
Pyrene	20.0	17.9		ug/L		90	70 - 120	1	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	76		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

Lab Sample ID: 380-178571-A-1-A MS
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 646557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1-Methylnaphthalene	<0.19		19.2	13.9		ug/L		72	36 - 120	
2-Methylnaphthalene	<0.19		19.2	13.7		ug/L		71	32 - 124	
Acenaphthene	<0.19		19.2	16.6		ug/L		87	47 - 145	
Acenaphthylene	<0.19		19.2	16.6		ug/L		86	33 - 145	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-178571-A-1-B MSD
Matrix: Water
Analysis Batch: 651324

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 646557

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	64		28 - 127
2-Fluorobiphenyl (Surr)	65		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	62		27 - 120
Phenol d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	72		45 - 120

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

Lab Sample ID: MB 570-649292/11
Matrix: Water
Analysis Batch: 649292

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	-		10/31/25 14:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		10/31/25 14:30	1

Lab Sample ID: LCS 570-649292/1009
Matrix: Water
Analysis Batch: 649292

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	395		ug/L	-	99	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		38 - 134

Lab Sample ID: LCSD 570-649292/10
Matrix: Water
Analysis Batch: 649292

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	390		ug/L	-	98	78 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		38 - 134

Lab Sample ID: MRL 570-649292/1004
Matrix: Water
Analysis Batch: 649292

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	10.4		ug/L	-	104	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-649292/1004
Matrix: Water
Analysis Batch: 649292

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

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		38 - 134

Lab Sample ID: 380-179754-B-1 MS
Matrix: Water
Analysis Batch: 649292

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	438		ug/L		109	68 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		38 - 134

Lab Sample ID: 380-179754-B-1 MSD
Matrix: Water
Analysis Batch: 649292

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	426		ug/L		107	68 - 122	3	18

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		38 - 134

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

Lab Sample ID: MB 570-646316/1-A
Matrix: Water
Analysis Batch: 651269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646316

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/26/25 09:36	11/05/25 01:15	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/26/25 09:36	11/05/25 01:15	1
C8-C18	<25		25	ug/L		10/26/25 09:36	11/05/25 01:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		60 - 130	10/26/25 09:36	11/05/25 01:15	1

Lab Sample ID: LCS 570-646316/2-A
Matrix: Water
Analysis Batch: 651269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1990		ug/L		124	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	124		60 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-646316/3-A
Matrix: Water
Analysis Batch: 651269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 646316

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1870		ug/L		117	56 - 127	6	23
Surrogate									
	%Recovery	Qualifier	Limits						
<i>n-Octacosane (Surr)</i>	120		60 - 130						

Lab Sample ID: MRL 570-646316/4-A
Matrix: Water
Analysis Batch: 651269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646316

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	0.0200	0.0246	J	mg/L		123	50 - 150		
Surrogate									
	%Recovery	Qualifier	Limits						
<i>n-Octacosane (Surr)</i>	97		60 - 130						

Lab Sample ID: 380-178571-B-1-A MS
Matrix: Water
Analysis Batch: 651269

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 646316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25		1630	1860		ug/L		114	70 - 130		
Surrogate											
	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	116		60 - 130								

Lab Sample ID: 380-178571-B-1-B MSD
Matrix: Water
Analysis Batch: 651269

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 646316

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25		1650	1580		ug/L		96	70 - 130	16	20
Surrogate											
	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	99		60 - 130								

QC Association Summary

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

Job ID: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 183098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	
MB 380-183098/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-183098/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-183098/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-178940-1 MS	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	
380-179350-T-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 183441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	183098
MB 380-183098/21-A	Method Blank	Total/NA	Water	525.2	183098
LCS 380-183098/23-A	Lab Control Sample	Total/NA	Water	525.2	183098
MRL 380-183098/22-A	Lab Control Sample	Total/NA	Water	525.2	183098
380-178940-1 MS	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	183098
380-179350-T-1-A DU	Duplicate	Total/NA	Water	525.2	183098

Prep Batch: 646557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	
MB 570-646557/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-646557/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-646557/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-178571-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-178571-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 651324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1 SIM	646557
MB 570-646557/1-A	Method Blank	Total/NA	Water	625.1 SIM	646557
LCS 570-646557/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	646557
LCSD 570-646557/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	646557
380-178571-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	646557
380-178571-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	646557

Analysis Batch: 653694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	646557

GC VOA

Analysis Batch: 649292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B GRO LL	
380-178940-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-649292/11	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-649292/1009	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-649292/10	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-649292/1004	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-179754-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-179754-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-178940-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 646316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	3510C	
MB 570-646316/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-646316/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-646316/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-646316/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-178571-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-178571-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 651269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178940-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B	646316
MB 570-646316/1-A	Method Blank	Total/NA	Water	8015B	646316
LCS 570-646316/2-A	Lab Control Sample	Total/NA	Water	8015B	646316
LCSD 570-646316/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	646316
MRL 570-646316/4-A	Lab Control Sample	Total/NA	Water	8015B	646316
380-178571-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	646316
380-178571-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	646316



Lab Chronicle

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

Job ID: 380-178940-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-1

Date Collected: 10/21/25 09:40

Matrix: Drinking Water

Date Received: 10/23/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			183098	OTM3	EA POM	10/29/25 07:41
Total/NA	Analysis	525.2		1	183441	Q8LA	EA POM	10/30/25 16:35
Total/NA	Prep	625.1			646557	H1SH	EET CAL 4	10/27/25 08:06
Total/NA	Analysis	625.1		1	653694	PQS1	EET CAL 4	11/10/25 08:13
Total/NA	Prep	625.1			646557	H1SH	EET CAL 4	10/27/25 08:06
Total/NA	Analysis	625.1 SIM		1	651324	PQS1	EET CAL 4	11/05/25 10:54
Total/NA	Analysis	8015B GRO LL		1	649292	A9VE	EET CAL 4	10/31/25 19:09
Total/NA	Prep	3510C			646316	TVD6	EET CAL 4	10/26/25 09:36
Total/NA	Analysis	8015B		1	651269	NR	EET CAL 4	11/05/25 05:44

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-178940-2

Date Collected: 10/21/25 09:40

Matrix: Water

Date Received: 10/23/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	649292	A9VE	EET CAL 4	10/31/25 20:04

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: 380-178940-1
SDG: Weekly: 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
<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
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	11-10-25
Arizona	State	AZ0830	11-15-25
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: 380-178940-1
SDG: Weekly: 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	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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Method Summary

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

Job ID: 380-178940-1
SDG: Weekly: 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: 380-178940-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-178940-1	Halawa Shaft Viewing Pool	Drinking Water	10/21/25 09:40	10/23/25 09:34	HI0000331
380-178940-2	TB: Halawa Shaft Viewing Pool	Water	10/21/25 09:40	10/23/25 09:34	

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



Client Information		Sampler: Jason Rakofsky		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757.1			
Client Contact: Mr. Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 2			
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> PWSID: 626.1, 626.1, 618 6018B_GRO_LL - (MOD) GRO 6018B_GRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18 626.2_PREC - (MOD) 626plus Plus TICs 637.1_DW_PREC - 637.1 Full List 633 - All Analytes						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: <input type="checkbox"/> Yes <input type="checkbox"/> 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		Total Number of Containers						Special Instructions/Note:	
Site: Hawaii		SSOW#:									
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, Solid, On-site)		Preservation Code:	
Halawa Shaft Viewing Pool		21-Oct-2025		0940		G		Water		R 2 3 2 2	
TB: Halawa Shaft Viewing Pool		21-Oct-2025		2		G		Water		2	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<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)		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: 8254 0064 4100/4111			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 6/88/41 = 4.4 GER							



Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins

Loc: 380
178940

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-268606.1																	
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1																	
Company: Eurofins Environment Testing Southwest			Accreditations Required (See note): State - Hawaii		Job #: 380-178940-1																	
Address: 2841 Dow Avenue, Suite 100, City: Tustin		Due Date Requested: 11/5/2025	Analysis Requested																			
State, Zip: CA, 92780		TAT Requested (days): N/A																				
Phone: 714-895-5494(Tel)		PO #: N/A	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1_SIM625_Prep(MOD) Extended PAH List 625.11625_Prep(MOD) Tentatively Identified Compounds (Hold) 8015B_ORO_LL_CS3510C_LLHNL Ranges: C-10-C24/C24-C36/C8-C18 8015B_ORO_LL5030C(MOD) GRO	Total Number of containers	Preservation Codes:																	
Email: N/A		WO #: N/A			Other: N/A																	
Project Name: RED-HILL		Project #: 38001111			Special Instructions/Note:																	
Site: Honolulu BWS Sites		SSOW#: N/A																				
Sample Identification - Client ID (Lab ID)		Sample Date				Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)														
HALAWA SHAFT (331-241-TP401) (380-178940-1)		10/21/25	09:40 Hawaiian	G	Water				X	X	X	X									7	MRLs are needed. Confirm any hits >RL
TB: HALAWA SHAFT (331-241-TP401) (380-178940-2)		10/21/25	09:40 Hawaiian	G	Water							X									2	MRLs are needed.



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

Possible Hazard identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	<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: 10/24/25 11:00	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: 0.3/1.3 IR-3	

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-178940-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 178940

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: 380-178940-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 178940

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 10/24/25 04:42 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	1.3
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	