

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

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

JOB NUMBER

380-174467-1

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: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

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

GC VOA

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

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: 380-174467-1

Job ID: 380-174467-1

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Job Narrative 380-174467-1

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 10/2/2025 10:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.8°C, 3.2°C, 4.8°C and 5.6°C.

GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-636448.

Method 625.1_SIM: The laboratory control sample duplicate (LCSD) for preparation batch 570-636448 and analytical batch 570-639157 recovered outside control limits for multiple compounds and surrogates. HT expired, therefore no re-extraction. The data has been reported per PM/Client request.

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-636670. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-2

No Detections.

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

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-1

Date Collected: 09/30/25 09:30

Matrix: Drinking Water

Date Received: 10/02/25 10:06

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		10/03/25 09:45	10/06/25 14:56	1
2,4'-DDD	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
2,4'-DDE	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
2,4'-DDT	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
2-Methylnaphthalene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
4,4'-DDD	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
4,4'-DDE	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
4,4'-DDT	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Acenaphthene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Acenaphthylene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Acetochlor	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Alachlor	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
alpha-BHC	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
alpha-Chlordane	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Anthracene	<0.019		0.019	ug/L		10/03/25 09:45	10/06/25 14:56	1
Atrazine	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/03/25 09:45	10/06/25 14:56	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/03/25 09:45	10/06/25 14:56	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/03/25 09:45	10/06/25 14:56	1
beta-BHC	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/03/25 09:45	10/06/25 14:56	1
Bromacil	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Butachlor	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/03/25 09:45	10/06/25 14:56	1
Chlorobenzilate	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Chloroneb	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Chlorpyrifos	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Chrysene	<0.019		0.019	ug/L		10/03/25 09:45	10/06/25 14:56	1
delta-BHC	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/03/25 09:45	10/06/25 14:56	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Dieldrin	<0.0096		0.0096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Diethylphthalate	<0.48		0.48	ug/L		10/03/25 09:45	10/06/25 14:56	1
Dimethylphthalate	<0.48		0.48	ug/L		10/03/25 09:45	10/06/25 14:56	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		10/03/25 09:45	10/06/25 14:56	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Endosulfan sulfate	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Endrin	<0.0096		0.0096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Endrin aldehyde	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
EPTC	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Fluoranthene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1

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Client Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-1

Date Collected: 09/30/25 09:30

Matrix: Drinking Water

Date Received: 10/02/25 10:06

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		10/03/25 09:45	10/06/25 14:56	1
gamma-Chlordane	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Heptachlor	<0.0096		0.0096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Isophorone	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Lindane	<0.0096		0.0096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Malathion	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Methoxychlor	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Metolachlor	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Molinate	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Naphthalene	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Parathion	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Phenanthrene	<0.038		0.038	ug/L		10/03/25 09:45	10/06/25 14:56	1
Propachlor	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Pyrene	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Simazine	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Terbacil	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Terbutylazine	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Thiobencarb	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/03/25 09:45	10/06/25 14:56	1
trans-Nonachlor	<0.048		0.048	ug/L		10/03/25 09:45	10/06/25 14:56	1
Trifluralin	<0.096		0.096	ug/L		10/03/25 09:45	10/06/25 14:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexazinone	0.11		ug/L		8.19	51235-04-2	10/03/25 09:45	10/06/25 14:56	1
Tentatively Identified Compound	None		ug/L			N/A	10/03/25 09:45	10/06/25 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	10/03/25 09:45	10/06/25 14:56	1
Perylene-d12	92		70 - 130	10/03/25 09:45	10/06/25 14:56	1
Triphenylphosphate	103		70 - 130	10/03/25 09:45	10/06/25 14:56	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	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
2-Methylnaphthalene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Acenaphthene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Acenaphthylene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Anthracene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Benzo[a]anthracene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Benzo[a]pyrene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Benzo[b]fluoranthene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Benzo[g,h,i]perylene	<0.19	*1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Benzo[k]fluoranthene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Chrysene	<0.19	*- *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Dibenz(a,h)anthracene	<0.19	*1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1

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Client Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-1

Date Collected: 09/30/25 09:30

Matrix: Drinking Water

Date Received: 10/02/25 10:06

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.19	*_ *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Fluorene	<0.19	*_ *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Indeno[1,2,3-cd]pyrene	<0.19	*1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Naphthalene	<0.19	*_ *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Phenanthrene	<0.19	*_ *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1
Pyrene	<0.19	*_ *1	0.19	ug/L		10/07/25 05:00	10/12/25 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		28 - 127	10/07/25 05:00	10/12/25 10:45	1
2-Fluorobiphenyl (Surr)	91		31 - 120	10/07/25 05:00	10/12/25 10:45	1
2-Fluorophenol (Surr)	56		17 - 120	10/07/25 05:00	10/12/25 10:45	1
Nitrobenzene-d5 (Surr)	95		27 - 120	10/07/25 05:00	10/12/25 10:45	1
Phenol-d6 (Surr)	35		10 - 120	10/07/25 05:00	10/12/25 10:45	1
p-Terphenyl-d14 (Surr)	93		45 - 120	10/07/25 05:00	10/12/25 10:45	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	10/07/25 05:00	10/20/25 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		33 - 139	10/07/25 05:00	10/20/25 10:50	1
2-Fluorobiphenyl (Surr)	92		33 - 126	10/07/25 05:00	10/20/25 10:50	1
2-Fluorophenol (Surr)	57		12 - 120	10/07/25 05:00	10/20/25 10:50	1
Nitrobenzene-d5 (Surr)	97		36 - 120	10/07/25 05:00	10/20/25 10:50	1
Phenol-d6 (Surr)	33		10 - 120	10/07/25 05:00	10/20/25 10:50	1
p-Terphenyl-d14 (Surr)	97		47 - 131	10/07/25 05:00	10/20/25 10:50	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			10/07/25 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		10/07/25 14:29	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		10/07/25 09:55	10/13/25 04:05	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/07/25 09:55	10/13/25 04:05	1
C8-C18	<25		25	ug/L		10/07/25 09:55	10/13/25 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		60 - 130	10/07/25 09:55	10/13/25 04:05	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-2

Date Collected: 09/30/25 09:30

Matrix: Water

Date Received: 10/02/25 10:06

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			10/07/25 19:06	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-2

Date Collected: 09/30/25 09:30

Matrix: Water

Date Received: 10/02/25 10:06

<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)	98		38 - 134		10/07/25 19:06	1

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

Action Limit Summary

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-1

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	<0.048		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	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	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	*- *1	ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-174467-1
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)
380-174467-1	Halawa Shaft Viewing Pool	101	92	103

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)
380-174230-V-1-A MS	Matrix Spike	99	101	104
380-174329-K-2-A DU	Duplicate	102	90	105
LCS 380-177756/22-A	Lab Control Sample	99	95	104
MB 380-177756/20-A	Method Blank	101	88	90
MRL 380-177756/21-A	Lab Control Sample	101	94	100

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)
380-174467-1	Halawa Shaft Viewing Pool	92	92	57	97	33	97

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 570-636448/1-A	Method Blank	68	92	53	96	35	97

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: 380-174467-1

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: 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)
380-174467-1	Halawa Shaft Viewing Pool	93	91	56	95	35	93

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
LCS 570-636448/2-A	Lab Control Sample	93	89	66	81	44	93
LCSD 570-636448/3-A	Lab Control Sample Dup	13 S1-	13 S1-	8 S1-	13 S1-	6 S1-	13 S1-
MB 570-636448/1-A	Method Blank	89	88	55	95	35	91

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 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)
380-174467-1	Halawa Shaft Viewing Pool	97

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)
380-173600-B-1 MS	Matrix Spike	95
380-173600-B-1 MSD	Matrix Spike Duplicate	99
380-174467-2	TB: Halawa Shaft Viewing Pool	98
LCS 570-636604/4	Lab Control Sample	95
LCSD 570-636604/5	Lab Control Sample Dup	97

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Surrogate Summary

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

Job ID: 380-174467-1
SDG: Weekly: 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)
MB 570-636604/6	Method Blank	94
MRL 570-636604/3	Lab Control Sample	93

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)
380-174467-1	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)
LCS 570-636670/2-A	Lab Control Sample	94
LCSD 570-636670/3-A	Lab Control Sample Dup	102
MB 570-636670/1-A	Method Blank	99
MRL 570-636670/4-A	Lab Control Sample	104

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-174467-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-177756/20-A
 Matrix: Water
 Analysis Batch: 177978

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 177756

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
2,4'-DDD	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
2,4'-DDE	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
2,4'-DDT	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
4,4'-DDD	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
4,4'-DDE	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
4,4'-DDT	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Acenaphthene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Acenaphthylene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Acetochlor	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Alachlor	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
alpha-BHC	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
alpha-Chlordane	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Anthracene	<0.020		0.020	ug/L		10/03/25 09:45	10/06/25 13:15	1
Atrazine	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Benz(a)anthracene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/03/25 09:45	10/06/25 13:15	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/03/25 09:45	10/06/25 13:15	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/03/25 09:45	10/06/25 13:15	1
beta-BHC	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/03/25 09:45	10/06/25 13:15	1
Bromacil	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Butachlor	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Butylbenzylphthalate	<0.50		0.50	ug/L		10/03/25 09:45	10/06/25 13:15	1
Chlorobenzilate	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Chloroneb	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Chlorpyrifos	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Chrysene	<0.020		0.020	ug/L		10/03/25 09:45	10/06/25 13:15	1
delta-BHC	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/03/25 09:45	10/06/25 13:15	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Dieldrin	<0.0099		0.0099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Diethylphthalate	<0.50		0.50	ug/L		10/03/25 09:45	10/06/25 13:15	1
Dimethylphthalate	<0.50		0.50	ug/L		10/03/25 09:45	10/06/25 13:15	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/03/25 09:45	10/06/25 13:15	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Endrin	<0.0099		0.0099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Endrin aldehyde	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
EPTC	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1

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QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-177756/20-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177756

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Fluorene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
gamma-Chlordane	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Heptachlor	<0.0099		0.0099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Hexachlorobenzene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Isophorone	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Lindane	<0.0099		0.0099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Malathion	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Methoxychlor	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Metolachlor	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Molinate	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Naphthalene	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Parathion	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Phenanthrene	<0.040		0.040	ug/L		10/03/25 09:45	10/06/25 13:15	1
Propachlor	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Pyrene	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Simazine	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Terbacil	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Terbutylazine	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Thiobencarb	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/03/25 09:45	10/06/25 13:15	1
trans-Nonachlor	<0.050		0.050	ug/L		10/03/25 09:45	10/06/25 13:15	1
Trifluralin	<0.099		0.099	ug/L		10/03/25 09:45	10/06/25 13:15	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Decane</i>	1.90	T J N	ug/L		2.74	124-18-5	10/03/25 09:45	10/06/25 13:15	1

<i>Surrogate</i>	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2-Nitro-m-xylene</i>	101		70 - 130	10/03/25 09:45	10/06/25 13:15	1
<i>Perylene-d12</i>	88		70 - 130	10/03/25 09:45	10/06/25 13:15	1
<i>Triphenylphosphate</i>	90		70 - 130	10/03/25 09:45	10/06/25 13:15	1

Lab Sample ID: LCS 380-177756/22-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.99	1.96		ug/L		99	70 - 130
2,4'-DDD	1.99	1.89		ug/L		95	70 - 130
2,4'-DDE	1.99	2.09		ug/L		105	70 - 130
2,4'-DDT	1.99	1.82		ug/L		92	70 - 130
2,4-Dinitrotoluene	1.99	1.76		ug/L		89	70 - 130
2,6-Dinitrotoluene	1.99	1.86		ug/L		94	70 - 130
2-Methylnaphthalene	1.99	2.00		ug/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-174467-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-177756/22-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.99	1.94		ug/L		98	70 - 130
4,4'-DDE	1.99	1.83		ug/L		92	70 - 130
4,4'-DDT	1.99	1.83		ug/L		92	70 - 130
Acenaphthene	1.99	2.02		ug/L		102	70 - 130
Acenaphthylene	1.99	1.82		ug/L		92	70 - 130
Acetochlor	1.99	2.06		ug/L		104	70 - 130
Alachlor	1.99	2.20		ug/L		111	70 - 130
alpha-BHC	1.99	1.99		ug/L		100	70 - 130
alpha-Chlordane	1.99	1.96		ug/L		99	70 - 130
Anthracene	1.99	1.99		ug/L		100	70 - 130
Atrazine	1.99	1.90		ug/L		96	70 - 130
Benz(a)anthracene	1.99	2.04		ug/L		103	70 - 130
Benzo[a]pyrene	1.99	2.13		ug/L		108	70 - 130
Benzo[b]fluoranthene	1.99	2.12		ug/L		107	70 - 130
Benzo[g,h,i]perylene	1.99	2.05		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.99	2.03		ug/L		102	70 - 130
beta-BHC	1.99	1.99		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.02		ug/L		102	70 - 130
Bromacil	1.99	1.96		ug/L		99	70 - 130
Butachlor	1.99	2.07		ug/L		104	70 - 130
Butylbenzylphthalate	1.99	2.32		ug/L		117	70 - 130
Chlorobenzilate	1.99	2.12		ug/L		107	70 - 130
Chloroneb	1.99	2.00		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	1.94		ug/L		98	70 - 130
Chlorpyrifos	1.99	2.01		ug/L		101	70 - 130
Chrysene	1.99	2.00		ug/L		101	70 - 130
delta-BHC	1.99	1.95		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.09		ug/L		105	70 - 130
Dibenz(a,h)anthracene	1.99	2.02		ug/L		102	70 - 130
Diclorvos (DDVP)	1.99	2.11		ug/L		106	70 - 130
Dieldrin	1.99	2.09		ug/L		106	70 - 130
Diethylphthalate	1.99	2.15		ug/L		108	70 - 130
Dimethylphthalate	1.99	2.13		ug/L		107	70 - 130
Di-n-butyl phthalate	3.97	4.31		ug/L		108	70 - 130
Di-n-octyl phthalate	1.99	1.91		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.99	2.01		ug/L		101	70 - 130
Endosulfan II (Beta)	1.99	2.13		ug/L		107	70 - 130
Endosulfan sulfate	1.99	1.98		ug/L		100	70 - 130
Endrin	1.99	2.04		ug/L		103	70 - 130
Endrin aldehyde	1.99	1.98		ug/L		100	60 - 130
EPTC	1.99	2.13		ug/L		108	70 - 130
Fluoranthene	1.99	2.01		ug/L		101	70 - 130
Fluorene	1.99	2.13		ug/L		107	70 - 130
gamma-Chlordane	1.99	1.89		ug/L		95	70 - 130
Heptachlor	1.99	2.01		ug/L		101	70 - 130
Heptachlor epoxide (isomer B)	1.99	1.97		ug/L		99	70 - 130
Hexachlorobenzene	1.99	1.86		ug/L		93	70 - 130
Hexachlorocyclopentadiene	1.99	1.82		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	1.92		ug/L		97	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-177756/22-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.99	2.07		ug/L		104	70 - 130
Lindane	1.99	2.05		ug/L		103	70 - 130
Malathion	1.99	1.99		ug/L		100	70 - 130
Methoxychlor	1.99	2.20		ug/L		111	70 - 130
Metolachlor	1.99	2.04		ug/L		103	70 - 130
Molinate	1.99	2.14		ug/L		108	70 - 130
Naphthalene	1.99	2.01		ug/L		101	70 - 130
Parathion	1.99	1.94		ug/L		98	70 - 130
Pendimethalin (Penoxaline)	1.99	1.63		ug/L		82	70 - 130
Phenanthrene	1.99	2.04		ug/L		103	70 - 130
Propachlor	1.99	2.23		ug/L		112	70 - 130
Pyrene	1.99	1.93		ug/L		97	70 - 130
Simazine	1.99	1.99		ug/L		100	70 - 130
Terbacil	1.99	2.08		ug/L		105	70 - 130
Terbutylazine	1.99	2.04		ug/L		103	70 - 130
Thiobencarb	1.99	1.95		ug/L		98	70 - 130
trans-Nonachlor	1.99	1.94		ug/L		98	70 - 130
Trifluralin	1.99	1.73		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: MRL 380-177756/21-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0991	0.111		ug/L		112	50 - 150
2,4'-DDD	0.0991	0.0943	J	ug/L		95	50 - 150
2,4'-DDE	0.0991	0.0985	J	ug/L		99	50 - 150
2,4'-DDT	0.0991	0.108		ug/L		109	50 - 150
2,4-Dinitrotoluene	0.0991	0.113		ug/L		114	50 - 150
2,6-Dinitrotoluene	0.0991	0.129		ug/L		130	50 - 150
2-Methylnaphthalene	0.0991	0.105		ug/L		106	50 - 150
4,4'-DDD	0.0991	0.105		ug/L		106	50 - 150
4,4'-DDE	0.0991	0.0996		ug/L		100	50 - 150
4,4'-DDT	0.0991	0.114		ug/L		115	50 - 150
Acenaphthene	0.0991	0.0937	J	ug/L		95	50 - 150
Acenaphthylene	0.0991	0.0994		ug/L		100	50 - 150
Acetochlor	0.0991	0.115		ug/L		116	50 - 150
Alachlor	0.0496	0.0514		ug/L		104	50 - 150
alpha-BHC	0.0991	0.0976	J	ug/L		98	50 - 150
alpha-Chlordane	0.0248	0.0352	J	ug/L		142	50 - 150
Anthracene	0.0198	0.0241		ug/L		122	50 - 150
Atrazine	0.0496	0.0667		ug/L		135	50 - 150
Benz(a)anthracene	0.0496	0.0552		ug/L		111	50 - 150

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-177756/21-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0198	0.0224		ug/L		113	50 - 150
Benzo[b]fluoranthene	0.0198	0.0266		ug/L		134	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0603		ug/L		122	50 - 150
Benzo[k]fluoranthene	0.0198	0.0248		ug/L		125	50 - 150
beta-BHC	0.0991	0.108		ug/L		109	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.591		ug/L		99	50 - 150
Bromacil	0.0991	0.117		ug/L		118	50 - 150
Butachlor	0.0496	0.0687		ug/L		139	50 - 150
Butylbenzylphthalate	0.496	0.592		ug/L		119	50 - 150
Chlorobenzilate	0.0991	0.104		ug/L		104	50 - 150
Chloroneb	0.0991	0.102		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0991	0.110		ug/L		111	50 - 150
Chlorpyrifos	0.0496	0.0529		ug/L		107	50 - 150
Chrysene	0.0198	0.0230		ug/L		116	50 - 150
delta-BHC	0.0991	0.0971	J	ug/L		98	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.615		ug/L		104	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0646		ug/L		130	50 - 150
Diclorvos (DDVP)	0.0496	0.0609		ug/L		123	50 - 150
Dieldrin	0.00991	0.0116		ug/L		117	50 - 150
Diethylphthalate	0.496	0.558		ug/L		113	50 - 150
Dimethylphthalate	0.496	0.547		ug/L		110	50 - 150
Di-n-butyl phthalate	0.496	0.571	J	ug/L		115	49 - 243
Di-n-octyl phthalate	0.0991	0.0964	J	ug/L		97	50 - 150
Endosulfan I (Alpha)	0.0991	0.0861	J	ug/L		87	50 - 150
Endosulfan II (Beta)	0.0991	0.111		ug/L		112	50 - 150
Endosulfan sulfate	0.0991	0.110		ug/L		111	50 - 150
Endrin	0.00991	0.0138		ug/L		139	50 - 150
Endrin aldehyde	0.0991	0.114		ug/L		115	50 - 150
EPTC	0.0991	0.113		ug/L		114	50 - 150
Fluoranthene	0.0991	0.105		ug/L		106	50 - 150
Fluorene	0.0496	0.0545		ug/L		110	50 - 150
gamma-Chlordane	0.0248	0.0353	J	ug/L		143	50 - 150
Heptachlor	0.00991	0.0133		ug/L		135	50 - 150
Heptachlor epoxide (isomer B)	0.00991	0.0136		ug/L		138	50 - 150
Hexachlorobenzene	0.0496	0.0505		ug/L		102	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0501		ug/L		101	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0733		ug/L		148	50 - 150
Isophorone	0.0991	0.129		ug/L		130	50 - 150
Lindane	0.00991	0.0135		ug/L		136	50 - 150
Malathion	0.0991	0.106		ug/L		107	50 - 150
Methoxychlor	0.0496	0.0702		ug/L		142	50 - 150
Metolachlor	0.0496	0.0616		ug/L		124	50 - 150
Molinate	0.0991	0.105		ug/L		106	50 - 150
Naphthalene	0.0991	0.113		ug/L		114	50 - 150
Parathion	0.0991	0.0963	J	ug/L		97	50 - 150
Pendimethalin (Penoxaline)	0.0991	0.0962	J	ug/L		97	50 - 150
Phenanthrene	0.0396	0.0440		ug/L		111	50 - 150
Propachlor	0.0496	0.0587		ug/L		118	50 - 150
Pyrene	0.0496	0.0529		ug/L		107	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-177756/21-A
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Simazine	0.0496	0.0640		ug/L		129	50 - 150
Terbacil	0.0991	0.105		ug/L		106	50 - 150
Terbutylazine	0.0991	0.112		ug/L		113	50 - 150
Thiobencarb	0.0991	0.110		ug/L		111	50 - 150
trans-Nonachlor	0.0248	0.0367	J	ug/L		148	50 - 150
Trifluralin	0.0991	0.107		ug/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-174230-V-1-A MS
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.89		ug/L		97	70 - 130
2,4'-DDD	<0.097		1.94	1.90		ug/L		98	70 - 130
2,4'-DDE	<0.097		1.94	1.99		ug/L		103	70 - 130
2,4'-DDT	<0.097		1.94	1.95		ug/L		101	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	2.02		ug/L		104	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	1.96		ug/L		101	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.89		ug/L		98	70 - 130
4,4'-DDD	<0.097		1.94	1.93		ug/L		100	70 - 130
4,4'-DDE	<0.097		1.94	1.96		ug/L		101	70 - 130
4,4'-DDT	<0.097		1.94	1.88		ug/L		97	70 - 130
Acenaphthene	<0.097		1.94	1.94		ug/L		100	70 - 130
Acenaphthylene	<0.097		1.94	1.86		ug/L		96	70 - 130
Acetochlor	<0.097		1.94	2.03		ug/L		105	70 - 130
Alachlor	<0.048		1.94	2.16		ug/L		111	70 - 130
alpha-BHC	<0.097		1.94	1.96		ug/L		101	70 - 130
alpha-Chlordane	<0.048		1.94	1.90		ug/L		98	70 - 130
Anthracene	<0.019		1.94	1.44		ug/L		74	70 - 130
Atrazine	<0.048		1.94	1.96		ug/L		101	70 - 130
Benz(a)anthracene	<0.048		1.94	2.00		ug/L		103	70 - 130
Benzo[a]pyrene	<0.019		1.94	2.01		ug/L		104	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.06		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	1.95		ug/L		101	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.04		ug/L		106	70 - 130
beta-BHC	<0.097		1.94	2.05		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.16		ug/L		111	70 - 130
Bromacil	2.3		1.94	4.56		ug/L		116	70 - 130
Butachlor	<0.048		1.94	2.07		ug/L		107	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.26		ug/L		117	70 - 130
Chlorobenzilate	<0.097		1.94	2.00		ug/L		103	70 - 130
Chloroneb	<0.097		1.94	1.96		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	1.90		ug/L		98	70 - 130

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-174230-V-1-A MS
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	<0.048		1.94	1.98		ug/L		102	70 - 130
Chrysene	<0.019		1.94	1.98		ug/L		102	70 - 130
delta-BHC	<0.097		1.94	1.90		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.09		ug/L		108	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	2.01		ug/L		104	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.04		ug/L		106	70 - 130
Dieldrin	<0.0097		1.94	1.89		ug/L		98	70 - 130
Diethylphthalate	<0.48		1.94	2.15		ug/L		111	70 - 130
Dimethylphthalate	<0.48		1.94	2.11		ug/L		109	70 - 130
Di-n-butyl phthalate	<0.97		3.88	4.46		ug/L		115	70 - 130
Di-n-octyl phthalate	<0.097		1.94	1.97		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.88		ug/L		97	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.95		ug/L		101	70 - 130
Endosulfan sulfate	<0.097		1.94	1.99		ug/L		103	70 - 130
Endrin	<0.0097		1.94	1.94		ug/L		100	70 - 130
Endrin aldehyde	<0.097		1.94	1.76		ug/L		91	60 - 130
EPTC	<0.097		1.94	2.08		ug/L		107	70 - 130
Fluoranthene	<0.097		1.94	2.00		ug/L		103	70 - 130
Fluorene	<0.048		1.94	2.08		ug/L		107	70 - 130
gamma-Chlordane	<0.048		1.94	1.82		ug/L		94	70 - 130
Heptachlor	<0.0097		1.94	2.01		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	2.04		ug/L		105	70 - 130
Hexachlorobenzene	<0.048		1.94	1.86		ug/L		96	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	1.81		ug/L		93	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.02		ug/L		104	70 - 130
Isophorone	<0.097		1.94	1.95		ug/L		101	70 - 130
Lindane	<0.0097		1.94	2.05		ug/L		106	70 - 130
Malathion	<0.097		1.94	1.99		ug/L		103	70 - 130
Methoxychlor	<0.048		1.94	2.10		ug/L		109	70 - 130
Metolachlor	<0.048		1.94	2.02		ug/L		104	70 - 130
Molinate	<0.097		1.94	2.13		ug/L		110	70 - 130
Naphthalene	<0.097		1.94	1.92		ug/L		99	70 - 130
Parathion	<0.097		1.94	1.89		ug/L		98	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	1.91		ug/L		98	70 - 130
Phenanthrene	<0.039		1.94	1.94		ug/L		100	70 - 130
Propachlor	<0.048		1.94	2.21		ug/L		114	70 - 130
Pyrene	<0.048		1.94	1.88		ug/L		97	70 - 130
Simazine	<0.048		1.94	2.07		ug/L		107	70 - 130
Terbacil	<0.097		1.94	1.99		ug/L		103	70 - 130
Terbutylazine	<0.097		1.94	2.04		ug/L		105	70 - 130
Thiobencarb	<0.097		1.94	1.94		ug/L		100	70 - 130
trans-Nonachlor	<0.048		1.94	1.90		ug/L		98	70 - 130
Trifluralin	<0.097		1.94	1.93		ug/L		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	104		70 - 130

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-174329-K-2-A DU
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
2,4'-DDD	<0.10		<0.099		ug/L		NC	20
2,4'-DDE	<0.10		<0.099		ug/L		NC	20
2,4'-DDT	<0.10		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
4,4'-DDD	<0.10		<0.099		ug/L		NC	20
4,4'-DDE	<0.10		<0.099		ug/L		NC	20
4,4'-DDT	<0.10		<0.099		ug/L		NC	20
Acenaphthene	<0.10		<0.099		ug/L		NC	20
Acenaphthylene	<0.10		<0.099		ug/L		NC	20
Acetochlor	<0.10		<0.099		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.10		<0.099		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<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	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.10		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.59		ug/L		NC	20
Bromacil	<0.10		<0.099		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.10		<0.099		ug/L		NC	20
Chloroneb	<0.10		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.10		<0.099		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.10		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	<0.010		<0.0099		ug/L		NC	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<1.0		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.10		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.10		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.10		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.10		<0.099		ug/L		NC	20
Endrin	<0.010		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.10		<0.099		ug/L		NC	20
EPTC	<0.10		<0.099		ug/L		NC	20

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-174329-K-2-A DU
Matrix: Water
Analysis Batch: 177978

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 177756

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Fluoranthene	<0.10		<0.099		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20
Heptachlor	<0.010		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.010		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.10		<0.099		ug/L		NC	20
Lindane	<0.010		<0.0099		ug/L		NC	20
Malathion	<0.10		<0.099		ug/L		NC	20
Methoxychlor	<0.050		<0.049		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.10		<0.099		ug/L		NC	20
Naphthalene	<0.10		<0.099		ug/L		NC	20
Parathion	<0.10		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.10		<0.099		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.10		<0.099		ug/L		NC	20
Terbutylazine	<0.10		<0.099		ug/L		NC	20
Thiobencarb	<0.10		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.10		<0.099		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-636448/1-A
Matrix: Water
Analysis Batch: 643083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636448

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	10/07/25 05:00	10/20/25 09:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	68		33 - 139	10/07/25 05:00	10/20/25 09:12	1
2-Fluorobiphenyl (Surr)	92		33 - 126	10/07/25 05:00	10/20/25 09:12	1
2-Fluorophenol (Surr)	53		12 - 120	10/07/25 05:00	10/20/25 09:12	1
Nitrobenzene-d5 (Surr)	96		36 - 120	10/07/25 05:00	10/20/25 09:12	1
Phenol-d6 (Surr)	35		10 - 120	10/07/25 05:00	10/20/25 09:12	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-636448/1-A
Matrix: Water
Analysis Batch: 643083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636448

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl-d14 (Surr)	97		47 - 131	10/07/25 05:00	10/20/25 09:12	1

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

Lab Sample ID: MB 570-636448/1-A
Matrix: Water
Analysis Batch: 639157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636448

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
2-Methylnaphthalene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Acenaphthene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Acenaphthylene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Anthracene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Benzo[a]anthracene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Benzo[a]pyrene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Chrysene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Fluoranthene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Fluorene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Naphthalene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Phenanthrene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1
Pyrene	<0.20		0.20	ug/L	D	10/07/25 05:00	10/12/25 06:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		28 - 127	10/07/25 05:00	10/12/25 06:45	1
2-Fluorobiphenyl (Surr)	88		31 - 120	10/07/25 05:00	10/12/25 06:45	1
2-Fluorophenol (Surr)	55		17 - 120	10/07/25 05:00	10/12/25 06:45	1
Nitrobenzene-d5 (Surr)	95		27 - 120	10/07/25 05:00	10/12/25 06:45	1
Phenol-d6 (Surr)	35		10 - 120	10/07/25 05:00	10/12/25 06:45	1
<i>p</i> -Terphenyl-d14 (Surr)	91		45 - 120	10/07/25 05:00	10/12/25 06:45	1

Lab Sample ID: LCS 570-636448/2-A
Matrix: Water
Analysis Batch: 639157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.2		ug/L	D	76	47 - 120
2-Methylnaphthalene	20.0	15.0		ug/L	D	75	43 - 120
Acenaphthene	20.0	17.7		ug/L	D	89	60 - 132
Acenaphthylene	20.0	17.9		ug/L	D	90	54 - 126
Anthracene	20.0	17.6		ug/L	D	88	43 - 120
Benzo[a]anthracene	20.0	17.8		ug/L	D	89	42 - 133
Benzo[a]pyrene	20.0	18.3		ug/L	D	91	32 - 148

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-636448/2-A
Matrix: Water
Analysis Batch: 639157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	20.0	18.0		ug/L		90	42 - 140
Benzo[g,h,i]perylene	20.0	17.5		ug/L		87	1 - 195
Benzo[k]fluoranthene	20.0	18.0		ug/L		90	25 - 146
Chrysene	20.0	18.1		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	18.3		ug/L		91	1 - 200
Fluoranthene	20.0	18.5		ug/L		93	43 - 121
Fluorene	20.0	18.1		ug/L		90	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.7		ug/L		89	1 - 151
Naphthalene	20.0	14.5		ug/L		73	36 - 120
Phenanthrene	20.0	17.7		ug/L		89	65 - 120
Pyrene	20.0	18.7		ug/L		94	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		28 - 127
2-Fluorobiphenyl (Surr)	89		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	93		45 - 120

Lab Sample ID: LCSD 570-636448/3-A
Matrix: Water
Analysis Batch: 639157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636448

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	2.52	*- *1	ug/L		13	47 - 120	143	20
2-Methylnaphthalene	20.0	2.49	*- *1	ug/L		12	43 - 120	143	20
Acenaphthene	20.0	2.58	*- *1	ug/L		13	60 - 132	149	29
Acenaphthylene	20.0	2.62	*- *1	ug/L		13	54 - 126	149	45
Anthracene	20.0	2.84	*- *1	ug/L		14	43 - 120	145	40
Benzo[a]anthracene	20.0	2.50	*- *1	ug/L		12	42 - 133	151	32
Benzo[a]pyrene	20.0	2.62	*- *1	ug/L		13	32 - 148	150	43
Benzo[b]fluoranthene	20.0	2.41	*- *1	ug/L		12	42 - 140	153	43
Benzo[g,h,i]perylene	20.0	2.42	*1	ug/L		12	1 - 195	151	61
Benzo[k]fluoranthene	20.0	2.70	*- *1	ug/L		13	25 - 146	148	38
Chrysene	20.0	2.77	*- *1	ug/L		14	44 - 140	147	53
Dibenz(a,h)anthracene	20.0	2.42	*1	ug/L		12	1 - 200	153	75
Fluoranthene	20.0	2.75	*- *1	ug/L		14	43 - 121	148	40
Fluorene	20.0	2.64	*- *1	ug/L		13	70 - 120	149	23
Indeno[1,2,3-cd]pyrene	20.0	2.23	*1	ug/L		11	1 - 151	155	60
Naphthalene	20.0	2.52	*- *1	ug/L		13	36 - 120	141	39
Phenanthrene	20.0	2.57	*- *1	ug/L		13	65 - 120	149	24
Pyrene	20.0	2.80	*- *1	ug/L		14	70 - 120	148	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	13	S1-	28 - 127
2-Fluorobiphenyl (Surr)	13	S1-	31 - 120
2-Fluorophenol (Surr)	8	S1-	17 - 120

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-636448/3-A
Matrix: Water
Analysis Batch: 639157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636448

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	13	S1-	27 - 120
Phenol-d6 (Surr)	6	S1-	10 - 120
p-Terphenyl-d14 (Surr)	13	S1-	45 - 120

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

Lab Sample ID: MB 570-636604/6
Matrix: Water
Analysis Batch: 636604

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			10/07/25 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134		10/07/25 11:35	1

Lab Sample ID: LCS 570-636604/4
Matrix: Water
Analysis Batch: 636604

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	414		ug/L		103	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		38 - 134

Lab Sample ID: LCSD 570-636604/5
Matrix: Water
Analysis Batch: 636604

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	407		ug/L		102	78 - 120	2	10

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

Lab Sample ID: MRL 570-636604/3
Matrix: Water
Analysis Batch: 636604

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	8.80	J	ug/L		88	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		38 - 134

QC Sample Results

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-173600-B-1 MS
Matrix: Water
Analysis Batch: 636604

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	390		ug/L		97	68 - 122
Surrogate		MS %Recovery		MS Qualifier					Limits
4-Bromofluorobenzene (Surr)		95							38 - 134

Lab Sample ID: 380-173600-B-1 MSD
Matrix: Water
Analysis Batch: 636604

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	389		ug/L		97	68 - 122	0	18
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
4-Bromofluorobenzene (Surr)		99							38 - 134		

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

Lab Sample ID: MB 570-636670/1-A
Matrix: Water
Analysis Batch: 639324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636670

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/07/25 09:55	10/13/25 02:39	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/07/25 09:55	10/13/25 02:39	1
C8-C18	<25		25	ug/L		10/07/25 09:55	10/13/25 02:39	1
Surrogate		MB %Recovery				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		99				10/07/25 09:55	10/13/25 02:39	1

Lab Sample ID: LCS 570-636670/2-A
Matrix: Water
Analysis Batch: 639324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1680		ug/L		105	56 - 127
Surrogate		LCS %Recovery					Limits
n-Octacosane (Surr)		94					60 - 130

Lab Sample ID: LCSD 570-636670/3-A
Matrix: Water
Analysis Batch: 639324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636670

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1920		ug/L		120	56 - 127	13	23

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QC Sample Results

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

Job ID: 380-174467-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-636670/3-A
Matrix: Water
Analysis Batch: 639324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636670

	<i>LCSD</i>	<i>LCSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	102		60 - 130

Lab Sample ID: MRL 570-636670/4-A
Matrix: Water
Analysis Batch: 639324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636670

		<i>Spike</i>	<i>MRL</i>	<i>MRL</i>					
<i>Analyte</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>	<i>%Rec</i>	<i>Limits</i>
C10-C28	0.0200	0.0296		mg/L		148	50 - 150		

	<i>MRL</i>	<i>MRL</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	104		60 - 130

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QC Association Summary

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

Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 177756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	
MB 380-177756/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-177756/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-177756/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-174230-V-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-174329-K-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 177978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	177756
MB 380-177756/20-A	Method Blank	Total/NA	Water	525.2	177756
LCS 380-177756/22-A	Lab Control Sample	Total/NA	Water	525.2	177756
MRL 380-177756/21-A	Lab Control Sample	Total/NA	Water	525.2	177756
380-174230-V-1-A MS	Matrix Spike	Total/NA	Water	525.2	177756
380-174329-K-2-A DU	Duplicate	Total/NA	Water	525.2	177756

Prep Batch: 636448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	
MB 570-636448/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-636448/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-636448/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 639157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1 SIM	636448
MB 570-636448/1-A	Method Blank	Total/NA	Water	625.1 SIM	636448
LCS 570-636448/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	636448
LCSD 570-636448/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	636448

Analysis Batch: 643083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	636448
MB 570-636448/1-A	Method Blank	Total/NA	Water	625.1	636448

GC VOA

Analysis Batch: 636604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B GRO LL	
380-174467-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-636604/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-636604/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-636604/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-636604/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-173600-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-173600-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: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 636670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	3510C	
MB 570-636670/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-636670/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-636670/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-636670/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 639324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-174467-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B	636670
MB 570-636670/1-A	Method Blank	Total/NA	Water	8015B	636670
LCS 570-636670/2-A	Lab Control Sample	Total/NA	Water	8015B	636670
LCSD 570-636670/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	636670
MRL 570-636670/4-A	Lab Control Sample	Total/NA	Water	8015B	636670

Lab Chronicle

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

Job ID: 380-174467-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-1

Date Collected: 09/30/25 09:30

Matrix: Drinking Water

Date Received: 10/02/25 10:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			177756	X5FS	EA POM	10/03/25 09:45
Total/NA	Analysis	525.2		1	177978	UPAC	EA POM	10/06/25 14:56
Total/NA	Prep	625.1			636448	S4EA	EET CAL 4	10/07/25 05:00
Total/NA	Analysis	625.1		1	643083	PQS1	EET CAL 4	10/20/25 10:50
Total/NA	Prep	625.1			636448	S4EA	EET CAL 4	10/07/25 05:00
Total/NA	Analysis	625.1 SIM		1	639157	PQS1	EET CAL 4	10/12/25 10:45
Total/NA	Analysis	8015B GRO LL		1	636604	YD9V	EET CAL 4	10/07/25 14:29
Total/NA	Prep	3510C			636670	TVD6	EET CAL 4	10/07/25 09:55
Total/NA	Analysis	8015B		1	639324	NR	EET CAL 4	10/13/25 04:05

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-174467-2

Date Collected: 09/30/25 09:30

Matrix: Water

Date Received: 10/02/25 10:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	636604	YD9V	EET CAL 4	10/07/25 19:06

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: 380-174467-1
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	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

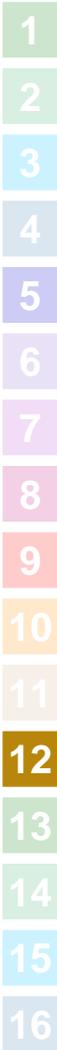
Job ID: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

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	10-11-25 *

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



Method Summary

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

Job ID: 380-174467-1
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: 380-174467-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-174467-1	Halawa Shaft Viewing Pool	Drinking Water	09/30/25 09:30	10/02/25 10:06	Hawaii
380-174467-2	TB: Halawa Shaft Viewing Pool	Water	09/30/25 09:30	10/02/25 10:06	Hawaii

- 1
- 2
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- 14
- 15
- 16

Chain of Custody Record



Client Information		Sampler: Jason Rakofsky	Lab PM: Arada, Rachelle	Carrier Tracking No(s): 380-28005-2757 1																																																		
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840	E-Mail: Rachelle.Arada@eurofins.com	Page: 1 of 2																																																		
Company: City & County of Honolulu		PWSID:																																																				
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:																																																				
City: Honolulu		TAT Requested (days):																																																				
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		Project #: 38001111																																																				
Event Desc: RUSH Weekly Red Hill		SSOW#:																																																				
Site: Hawaii		Site:																																																				
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Spiked, On-site/Off-site)																																																		
Halawa Shaft Viewing Pool	30-Sep-2025	0930	G	Water																																																		
TB: Halawa Shaft Viewing Pool	30-Sep-2025	1100	G	Water																																																		
<table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type</th> <th>Matrix</th> <th>RA</th> <th>QA</th> <th>Y</th> <th>I</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>① 8848 4061 6567</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>② 8848 4061 0865</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>③ 8848 4061 6578</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>④ 8848 4061 0854</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Sample ID	Sample Date	Sample Time	Sample Type	Matrix	RA	QA	Y	I	Special Instructions/Note:	① 8848 4061 6567										② 8848 4061 0865										③ 8848 4061 6578										④ 8848 4061 0854									
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③ 8848 4061 6578																																																						
④ 8848 4061 0854																																																						
Possible Hazard Identification <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																																																						
Deliverable Requested I, II, III, IV, Other (specify)																																																						
Empty Kit Relinquished by																																																						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																						
Special Instructions/QC Requirements:																																																						
Method of Shipment: <input checked="" type="checkbox"/> Method of Shipment:																																																						
Received by: <u>Keyi</u> Date/Time: <u>10/1/25 1100</u> Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																																																						
Cooler Temperature(s) °C and Other Remark: <u>5.0-0.2 = 4.8 / 1.0-0.2 = 0.8 / 3.4-0.2 = 3.2</u> <u>5.9-0.2 = 5.6</u>																																																						
Custody Seal No. <u>3801752A</u>																																																						



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-174467-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

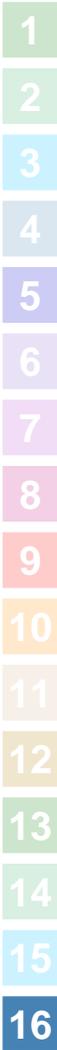
Login Number: 174467

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: 380-174467-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 174467
List Number: 2
Creator: Ferreira, Bruno

List Source: Eurofins Calscience
List Creation: 10/03/25 11:37 AM

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.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
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
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	

