

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-230723-1

Eurofins Pomona

Job Notes

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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 Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

Glossary

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

Case Narrative

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

Job ID: 380-230723-1

Job ID: 380-230723-1

Eurofins Pomona

Job Narrative 380-230723-1

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 8/13/2026 9:46 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 2.6°C and 3.8°C.

Receipt Exceptions

GC/MS Semi VOA

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

Gasoline Range Organics

Method 8015B GRO LL: The method reporting limit check (MRL) for analytical batch 570-787806 recovered outside control limits for the following analytes: Gasoline Range Organics (C4-C13). These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-1

☐ No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-1

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
2,4'-DDD	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
2,4'-DDE	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
2,4'-DDT	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
4,4'-DDD	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
4,4'-DDE	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
4,4'-DDT	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Acenaphthene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Acenaphthylene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Acetochlor	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Alachlor	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
alpha-BHC	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
alpha-Chlordane	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Anthracene	<0.019		0.019	ug/L		08/14/26 14:10	08/17/26 16:52	1
Atrazine	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Benz(a)anthracene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/14/26 14:10	08/17/26 16:52	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/14/26 14:10	08/17/26 16:52	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/14/26 14:10	08/17/26 16:52	1
beta-BHC	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/14/26 14:10	08/17/26 16:52	1
Bromacil	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Butachlor	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Butylbenzylphthalate	<0.48		0.48	ug/L		08/14/26 14:10	08/17/26 16:52	1
Chlorobenzilate	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Chloroneb	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Chlorpyrifos	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Chrysene	<0.019		0.019	ug/L		08/14/26 14:10	08/17/26 16:52	1
delta-BHC	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/14/26 14:10	08/17/26 16:52	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Dieldrin	<0.0097		0.0097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Diethylphthalate	<0.48		0.48	ug/L		08/14/26 14:10	08/17/26 16:52	1
Dimethylphthalate	<0.48		0.48	ug/L		08/14/26 14:10	08/17/26 16:52	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/14/26 14:10	08/17/26 16:52	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Endrin	<0.0097		0.0097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Endrin aldehyde	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
EPTC	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Fluoranthene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1

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Client Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-1

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

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		08/14/26 14:10	08/17/26 16:52	1
gamma-Chlordane	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Heptachlor	<0.0097		0.0097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Hexachlorobenzene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Isophorone	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Lindane	<0.0097		0.0097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Malathion	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Methoxychlor	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Metolachlor	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Molinate	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Naphthalene	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Parathion	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Phenanthrene	<0.039		0.039	ug/L		08/14/26 14:10	08/17/26 16:52	1
Propachlor	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Pyrene	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Simazine	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Terbacil	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Terbutylazine	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Thiobencarb	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/14/26 14:10	08/17/26 16:52	1
trans-Nonachlor	<0.048		0.048	ug/L		08/14/26 14:10	08/17/26 16:52	1
Trifluralin	<0.097		0.097	ug/L		08/14/26 14:10	08/17/26 16:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/14/26 14:10	08/17/26 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	08/14/26 14:10	08/17/26 16:52	1
Perylene-d12	95		70 - 130	08/14/26 14:10	08/17/26 16:52	1
Triphenylphosphate	104		70 - 130	08/14/26 14:10	08/17/26 16:52	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		08/18/26 07:45	08/19/26 13:22	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Acenaphthene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Acenaphthylene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Anthracene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Chrysene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Fluoranthene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1

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Client Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-1

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

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		08/18/26 07:45	08/19/26 13:22	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Naphthalene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Phenanthrene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1
Pyrene	<0.19		0.19	ug/L		08/18/26 07:45	08/19/26 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		28 - 127	08/18/26 07:45	08/19/26 13:22	1
2-Fluorobiphenyl (Surr)	82		31 - 120	08/18/26 07:45	08/19/26 13:22	1
2-Fluorophenol (Surr)	48		17 - 120	08/18/26 07:45	08/19/26 13:22	1
Nitrobenzene-d5 (Surr)	83		27 - 120	08/18/26 07:45	08/19/26 13:22	1
Phenol-d6 (Surr)	30		10 - 120	08/18/26 07:45	08/19/26 13:22	1
p-Terphenyl-d14 (Surr)	78		45 - 120	08/18/26 07:45	08/19/26 13:22	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	08/18/26 07:45	08/19/26 10:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		33 - 139	08/18/26 07:45	08/19/26 10:06	1
2-Fluorobiphenyl (Surr)	90		33 - 126	08/18/26 07:45	08/19/26 10:06	1
2-Fluorophenol (Surr)	51		12 - 120	08/18/26 07:45	08/19/26 10:06	1
Nitrobenzene-d5 (Surr)	94		36 - 120	08/18/26 07:45	08/19/26 10:06	1
Phenol-d6 (Surr)	29		10 - 120	08/18/26 07:45	08/19/26 10:06	1
p-Terphenyl-d14 (Surr)	93		47 - 131	08/18/26 07:45	08/19/26 10:06	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			08/21/26 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134		08/21/26 00:48	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)	<28		28	ug/L		08/14/26 06:12	08/23/26 05:51	1
Motor Oil Range Organics [C24-C36]	<28		28	ug/L		08/14/26 06:12	08/23/26 05:51	1
C8-C18	<28		28	ug/L		08/14/26 06:12	08/23/26 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		60 - 130	08/14/26 06:12	08/23/26 05:51	1

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-2

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

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			08/21/26 04:52	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-2

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		38 - 134		08/21/26 04:52	1

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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Action Limit Summary

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-1

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	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	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	<0.0097		ug/L	0.2	0.0097	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: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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)				
380-230723-1	HALAWA SHAFT VIEWING POC	97	95	104				
380-230824-A-2-B MS	Matrix Spike	99	99	104				
380-230824-A-2-C MSD	Matrix Spike Duplicate	100	100	105				
LCS 380-246588/23-A	Lab Control Sample	98	96	103				
MB 380-246588/21-A	Method Blank	98	91	102				
MRL 380-246588/22-A	Lab Control Sample	97	90	100				
Surrogate Legend								
2NMX = 2-Nitro-m-xylene								
PRY = Perylene-d12								
TPP = Triphenylphosphate								

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)		
380-230723-1	HALAWA SHAFT VIEWING POC	75	90	51	94	29	93		
MB 570-785520/1-A	Method Blank	87	98	63	109	41	98		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									
PHL6 = Phenol-d6 (Surr)									
TPHd14 = p-Terphenyl-d14 (Surr)									

Method: 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)		
380-230723-1	HALAWA SHAFT VIEWING POC	89	82	48	83	30	78		
380-231117-A-1-A MS	Matrix Spike	92	93	66	69	43	97		
380-231117-A-1-B MSD	Matrix Spike Duplicate	86	87	60	65	40	89		
LCS 570-785520/2-A	Lab Control Sample	77	76	58	61	38	81		
LCSD 570-785520/3-A	Lab Control Sample Dup	79	78	56	60	36	92		
MB 570-785520/1-A	Method Blank	91	82	55	88	34	76		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									
PHL6 = Phenol-d6 (Surr)									
TPHd14 = p-Terphenyl-d14 (Surr)									

Surrogate Summary

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-230723-1	HALAWA SHAFT VIEWING POC	89
380-230723-2	TB: HALAWA SHAFT VIEWING POOL	102
380-231117-C-1 MS	Matrix Spike	106
380-231117-C-1 MSD	Matrix Spike Duplicate	90
LCS 570-787806/33	Lab Control Sample	101
LCSD 570 787806/34	Lab Control Sample Dup	98
MB 570-787806/36	Method Blank	100
MRL 570-787806/35	Lab Control Sample	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-230428-B-1-A MS	Matrix Spike	88
380-230428-B-1-B MSD	Matrix Spike Duplicate	92
380-230723-1	HALAWA SHAFT VIEWING POOL	96
LCS 570-783767/2-A	Lab Control Sample	101
LCSD 570-783767/3-A	Lab Control Sample Dup	108
MB 570-783767/1-A	Method Blank	104
MRL 570-783767/4-A	Lab Control Sample	105

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-246588/21-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 246588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
2,4'-DDD	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
2,4'-DDE	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
2,4'-DDT	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
4,4'-DDD	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
4,4'-DDE	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
4,4'-DDT	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Acenaphthene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Acenaphthylene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Acetochlor	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Alachlor	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
alpha-BHC	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
alpha-Chlordane	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Anthracene	<0.020		0.020	ug/L		08/14/26 14:10	08/17/26 13:44	1
Atrazine	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/14/26 14:10	08/17/26 13:44	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/14/26 14:10	08/17/26 13:44	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/14/26 14:10	08/17/26 13:44	1
beta-BHC	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/14/26 14:10	08/17/26 13:44	1
Bromacil	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Butachlor	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/14/26 14:10	08/17/26 13:44	1
Chlorobenzilate	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Chloroneb	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Chlorpyrifos	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Chrysene	<0.020		0.020	ug/L		08/14/26 14:10	08/17/26 13:44	1
delta-BHC	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/14/26 14:10	08/17/26 13:44	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Dieldrin	<0.0099		0.0099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Diethylphthalate	<0.50		0.50	ug/L		08/14/26 14:10	08/17/26 13:44	1
Dimethylphthalate	<0.50		0.50	ug/L		08/14/26 14:10	08/17/26 13:44	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/14/26 14:10	08/17/26 13:44	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Endrin	<0.0099		0.0099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Endrin aldehyde	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
EPTC	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-246588/21-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 246588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Fluorene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
gamma-Chlordane	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Heptachlor	<0.0099		0.0099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Isophorone	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Lindane	<0.0099		0.0099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Malathion	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Methoxychlor	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Metolachlor	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Molinate	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Naphthalene	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Parathion	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Phenanthrene	<0.040		0.040	ug/L		08/14/26 14:10	08/17/26 13:44	1
Propachlor	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Pyrene	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Simazine	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Terbacil	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Terbutylazine	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Thiobencarb	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/14/26 14:10	08/17/26 13:44	1
trans-Nonachlor	<0.050		0.050	ug/L		08/14/26 14:10	08/17/26 13:44	1
Trifluralin	<0.099		0.099	ug/L		08/14/26 14:10	08/17/26 13:44	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.886	T J N	ug/L		2.60	1000154-28-6	08/14/26 14:10	08/17/26 13:44	1
Pentadecane, 7-methyl-	0.829	T J N	ug/L		3.07	6165-40-8	08/14/26 14:10	08/17/26 13:44	1
Undecane	5.81	T J N	ug/L		3.19	1120-21-4	08/14/26 14:10	08/17/26 13:44	1
Unknown	0.574	T J	ug/L		4.79	N/A	08/14/26 14:10	08/17/26 13:44	1
9-Octadecenamide, (Z)-	3.29	T J N	ug/L		8.00	301-02-0	08/14/26 14:10	08/17/26 13:44	1
9-Octadecenamide, (Z)-	0.549	T J N	ug/L		8.10	301-02-0	08/14/26 14:10	08/17/26 13:44	1
13-Docosenamide, (Z)-	3.16	T J N	ug/L		10.57	112-84-5	08/14/26 14:10	08/17/26 13:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	08/14/26 14:10	08/17/26 13:44	1
Perylene-d12	91		70 - 130	08/14/26 14:10	08/17/26 13:44	1
Triphenylphosphate	102		70 - 130	08/14/26 14:10	08/17/26 13:44	1

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-246588/23-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	2.00	2.12		ug/L		106	70 - 130
2,4'-DDD	2.00	2.08		ug/L		104	70 - 130
2,4'-DDE	2.00	2.06		ug/L		103	70 - 130
2,4'-DDT	2.00	2.06		ug/L		103	70 - 130
2,4-Dinitrotoluene	2.00	2.20		ug/L		110	70 - 130
2,6-Dinitrotoluene	2.00	2.13		ug/L		106	70 - 130
2-Methylnaphthalene	2.00	2.09		ug/L		104	70 - 130
4,4'-DDD	2.00	2.08		ug/L		104	70 - 130
4,4'-DDE	2.00	2.04		ug/L		102	70 - 130
4,4'-DDT	2.00	2.18		ug/L		109	70 - 130
Acenaphthene	2.00	2.09		ug/L		104	70 - 130
Acenaphthylene	2.00	1.97		ug/L		98	70 - 130
Acetochlor	2.00	2.12		ug/L		106	70 - 130
Alachlor	2.00	2.13		ug/L		106	70 - 130
alpha-BHC	2.00	2.11		ug/L		105	70 - 130
alpha-Chlordane	2.00	2.03		ug/L		101	70 - 130
Anthracene	2.00	1.78		ug/L		89	70 - 130
Atrazine	2.00	2.19		ug/L		109	70 - 130
Benz(a)anthracene	2.00	2.14		ug/L		107	70 - 130
Benzo[a]pyrene	2.00	2.10		ug/L		105	70 - 130
Benzo[b]fluoranthene	2.00	2.18		ug/L		109	70 - 130
Benzo[g,h,i]perylene	2.00	2.01		ug/L		100	70 - 130
Benzo[k]fluoranthene	2.00	2.16		ug/L		108	70 - 130
beta-BHC	2.00	2.14		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	2.00	2.30		ug/L		115	70 - 130
Bromacil	2.00	2.04		ug/L		102	70 - 130
Butachlor	2.00	2.18		ug/L		109	70 - 130
Butylbenzylphthalate	2.00	2.30		ug/L		115	70 - 130
Chlorobenzilate	2.00	2.12		ug/L		106	70 - 130
Chloroneb	2.00	2.10		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	2.00	2.14		ug/L		107	70 - 130
Chlorpyrifos	2.00	2.13		ug/L		107	70 - 130
Chrysene	2.00	2.09		ug/L		105	70 - 130
delta-BHC	2.00	2.11		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	2.00	2.43		ug/L		121	70 - 130
Dibenz(a,h)anthracene	2.00	2.02		ug/L		101	70 - 130
Diclorvos (DDVP)	2.00	2.17		ug/L		108	70 - 130
Dieldrin	2.00	1.97		ug/L		98	70 - 130
Diethylphthalate	2.00	2.25		ug/L		112	70 - 130
Dimethylphthalate	2.00	2.15		ug/L		107	70 - 130
Di-n-butyl phthalate	4.01	4.55		ug/L		114	70 - 130
Di-n-octyl phthalate	2.00	2.26		ug/L		113	70 - 130
Endosulfan I (Alpha)	2.00	2.04		ug/L		102	70 - 130
Endosulfan II (Beta)	2.00	2.05		ug/L		102	70 - 130
Endosulfan sulfate	2.00	2.08		ug/L		104	70 - 130
Endrin	2.00	2.10		ug/L		105	70 - 130
Endrin aldehyde	2.00	2.01		ug/L		101	60 - 130
EPTC	2.00	2.15		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-246588/23-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	2.00	2.22		ug/L		111	70 - 130
Fluorene	2.00	2.21		ug/L		110	70 - 130
gamma-Chlordane	2.00	2.02		ug/L		101	70 - 130
Heptachlor	2.00	1.98		ug/L		99	70 - 130
Heptachlor epoxide (isomer B)	2.00	2.00		ug/L		100	70 - 130
Hexachlorobenzene	2.00	1.94		ug/L		97	70 - 130
Hexachlorocyclopentadiene	2.00	2.03		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	2.00	2.05		ug/L		102	70 - 130
Isophorone	2.00	2.17		ug/L		108	70 - 130
Lindane	2.00	2.13		ug/L		107	70 - 130
Malathion	2.00	2.14		ug/L		107	70 - 130
Methoxychlor	2.00	2.24		ug/L		112	70 - 130
Metolachlor	2.00	2.11		ug/L		105	70 - 130
Molinate	2.00	2.19		ug/L		110	70 - 130
Naphthalene	2.00	1.95		ug/L		98	70 - 130
Parathion	2.00	2.25		ug/L		112	70 - 130
Pendimethalin (Penoxaline)	2.00	2.16		ug/L		108	70 - 130
Phenanthrene	2.00	2.14		ug/L		107	70 - 130
Propachlor	2.00	2.25		ug/L		112	70 - 130
Pyrene	2.00	2.21		ug/L		110	70 - 130
Simazine	2.00	2.13		ug/L		106	70 - 130
Terbacil	2.00	2.18		ug/L		109	70 - 130
Terbutylazine	2.00	2.20		ug/L		110	70 - 130
Thiobencarb	2.00	2.28		ug/L		114	70 - 130
trans-Nonachlor	2.00	2.01		ug/L		100	70 - 130
Trifluralin	2.00	2.05		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: MRL 380-246588/22-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0998	0.0932	J	ug/L		93	50 - 150
2,4'-DDD	0.0998	0.103		ug/L		104	50 - 150
2,4'-DDE	0.0998	0.110		ug/L		111	50 - 150
2,4'-DDT	0.0998	0.118		ug/L		119	50 - 150
2,4-Dinitrotoluene	0.0998	0.123		ug/L		124	50 - 150
2,6-Dinitrotoluene	0.0998	0.112		ug/L		112	50 - 150
2-Methylnaphthalene	0.0998	0.0954	J	ug/L		96	50 - 150
4,4'-DDD	0.0998	0.114		ug/L		115	50 - 150
4,4'-DDE	0.0998	0.111		ug/L		111	50 - 150
4,4'-DDT	0.0998	0.124		ug/L		124	50 - 150
Acenaphthene	0.0998	0.100		ug/L		101	50 - 150

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-246588/22-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	0.0998	0.0873	J	ug/L		88	50 - 150
Acetochlor	0.0998	0.109		ug/L		110	50 - 150
Alachlor	0.0499	0.0623		ug/L		125	50 - 150
alpha-BHC	0.0998	0.112		ug/L		112	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		105	50 - 150
Anthracene	0.0200	0.0244		ug/L		123	50 - 150
Atrazine	0.0499	0.0649		ug/L		130	50 - 150
Benz(a)anthracene	0.0499	0.0621		ug/L		125	50 - 150
Benzo[a]pyrene	0.0200	0.0248		ug/L		125	50 - 150
Benzo[b]fluoranthene	0.0200	0.0259		ug/L		130	50 - 150
Benzo[g,h,i]perylene	0.0499	0.0554		ug/L		111	50 - 150
Benzo[k]fluoranthene	0.0200	0.0263		ug/L		132	50 - 150
beta-BHC	0.0998	0.123		ug/L		123	50 - 150
Bis(2-ethylhexyl) phthalate	0.599	0.797		ug/L		133	50 - 150
Bromacil	0.0998	0.115		ug/L		116	50 - 150
Butachlor	0.0499	0.0599		ug/L		120	50 - 150
Butylbenzylphthalate	0.499	0.690		ug/L		138	50 - 150
Chlorobenzilate	0.0998	0.113		ug/L		114	50 - 150
Chloroneb	0.0998	0.105		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0998	0.116		ug/L		117	50 - 150
Chlorpyrifos	0.0499	0.0556		ug/L		112	50 - 150
Chrysene	0.0200	0.0271		ug/L		136	50 - 150
delta-BHC	0.0998	0.113		ug/L		113	50 - 150
Di(2-ethylhexyl)adipate	0.599	0.823		ug/L		138	50 - 150
Dibenz(a,h)anthracene	0.0499	0.0545		ug/L		109	50 - 150
Diclorvos (DDVP)	0.0499	0.0598		ug/L		120	50 - 150
Dieldrin	0.00998	0.0115		ug/L		115	50 - 150
Diethylphthalate	0.499	0.647		ug/L		130	50 - 150
Dimethylphthalate	0.499	0.586		ug/L		118	50 - 150
Di-n-butyl phthalate	0.499	0.784	J	ug/L		157	49 - 243
Di-n-octyl phthalate	0.0998	0.110		ug/L		111	50 - 150
Endosulfan I (Alpha)	0.0998	0.0821	J	ug/L		82	50 - 150
Endosulfan II (Beta)	0.0998	0.116		ug/L		116	50 - 150
Endosulfan sulfate	0.0998	0.124		ug/L		124	50 - 150
Endrin	0.00998	0.00683	J	ug/L		68	50 - 150
Endrin aldehyde	0.0998	0.115		ug/L		115	50 - 150
EPTC	0.0998	0.102		ug/L		102	50 - 150
Fluoranthene	0.0998	0.116		ug/L		116	50 - 150
Fluorene	0.0499	0.0523		ug/L		105	50 - 150
gamma-Chlordane	0.0249	0.0275	J	ug/L		110	50 - 150
Heptachlor	0.00998	0.0114		ug/L		114	50 - 150
Heptachlor epoxide (isomer B)	0.00998	0.0121		ug/L		121	50 - 150
Hexachlorobenzene	0.0499	0.0476	J	ug/L		95	50 - 150
Hexachlorocyclopentadiene	0.0499	0.0460	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0499	0.0572		ug/L		115	50 - 150
Isophorone	0.0998	0.105		ug/L		105	50 - 150
Lindane	0.00998	0.0113		ug/L		114	50 - 150
Malathion	0.0998	0.111		ug/L		112	50 - 150
Methoxychlor	0.0499	0.0629		ug/L		126	50 - 150

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-246588/22-A

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Metolachlor	0.0499	0.0602		ug/L		121	50 - 150
Molinate	0.0998	0.119		ug/L		120	50 - 150
Naphthalene	0.0998	0.0915	J	ug/L		92	50 - 150
Parathion	0.0998	0.112		ug/L		112	50 - 150
Pendimethalin (Penoxaline)	0.0998	0.107		ug/L		107	50 - 150
Phenanthrene	0.0399	0.0441		ug/L		111	50 - 150
Propachlor	0.0499	0.0616		ug/L		124	50 - 150
Pyrene	0.0499	0.0585		ug/L		117	50 - 150
Simazine	0.0499	0.0570		ug/L		114	50 - 150
Terbacil	0.0998	0.124		ug/L		124	50 - 150
Terbutylazine	0.0998	0.122		ug/L		123	50 - 150
Thiobencarb	0.0998	0.121		ug/L		121	50 - 150
trans-Nonachlor	0.0249	0.0314	J	ug/L		126	50 - 150
Trifluralin	0.0998	0.107		ug/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-230824-A-2-B MS

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.92	2.08		ug/L		108	70 - 130
2,4'-DDD	<0.097		1.92	2.05		ug/L		107	70 - 130
2,4'-DDE	<0.097		1.92	2.00		ug/L		104	70 - 130
2,4'-DDT	<0.097		1.92	2.04		ug/L		106	70 - 130
2,4-Dinitrotoluene	<0.097		1.92	2.21		ug/L		115	70 - 130
2,6-Dinitrotoluene	<0.097		1.92	2.14		ug/L		111	70 - 130
2-Methylnaphthalene	<0.097		1.92	2.05		ug/L		107	70 - 130
4,4'-DDD	<0.097		1.92	2.04		ug/L		106	70 - 130
4,4'-DDE	<0.097		1.92	1.96		ug/L		102	70 - 130
4,4'-DDT	<0.097		1.92	2.08		ug/L		108	70 - 130
Acenaphthene	<0.097		1.92	2.05		ug/L		107	70 - 130
Acenaphthylene	<0.097		1.92	1.94		ug/L		101	70 - 130
Acetochlor	<0.097		1.92	2.09		ug/L		109	70 - 130
Alachlor	<0.049		1.92	2.09		ug/L		109	70 - 130
alpha-BHC	<0.097		1.92	2.07		ug/L		108	70 - 130
alpha-Chlordane	<0.049		1.92	1.98		ug/L		103	70 - 130
Anthracene	<0.019		1.92	1.37		ug/L		71	70 - 130
Atrazine	<0.049		1.92	2.13		ug/L		111	70 - 130
Benz(a)anthracene	<0.049		1.92	2.06		ug/L		107	70 - 130
Benzo[a]pyrene	<0.019		1.92	1.92		ug/L		100	70 - 130
Benzo[b]fluoranthene	<0.019		1.92	2.16		ug/L		113	70 - 130
Benzo[g,h,i]perylene	<0.049		1.92	2.00		ug/L		104	70 - 130
Benzo[k]fluoranthene	<0.019		1.92	2.07		ug/L		108	70 - 130

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-230824-A-2-B MS

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	<0.097		1.92	2.09		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.92	2.02		ug/L		105	70 - 130
Bromacil	<0.097		1.92	2.11		ug/L		110	70 - 130
Butachlor	<0.049		1.92	2.15		ug/L		112	70 - 130
Butylbenzylphthalate	<0.49		1.92	2.22		ug/L		115	70 - 130
Chlorobenzilate	<0.097		1.92	2.10		ug/L		109	70 - 130
Chloroneb	<0.097		1.92	2.03		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.92	2.10		ug/L		109	70 - 130
Chlorpyrifos	<0.049		1.92	2.09		ug/L		109	70 - 130
Chrysene	<0.019		1.92	2.09		ug/L		108	70 - 130
delta-BHC	<0.097		1.92	2.06		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.92	2.24		ug/L		117	70 - 130
Dibenz(a,h)anthracene	<0.049		1.92	1.96		ug/L		102	70 - 130
Diclorvos (DDVP)	<0.049		1.92	2.11		ug/L		110	70 - 130
Dieldrin	<0.0097		1.92	1.96		ug/L		102	70 - 130
Diethylphthalate	<0.49		1.92	2.18		ug/L		114	70 - 130
Dimethylphthalate	<0.49		1.92	2.13		ug/L		111	70 - 130
Di-n-butyl phthalate	<0.97		3.85	4.48		ug/L		110	70 - 130
Di-n-octyl phthalate	<0.097		1.92	1.97		ug/L		103	70 - 130
Endosulfan I (Alpha)	<0.097		1.92	2.01		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.097		1.92	2.05		ug/L		107	70 - 130
Endosulfan sulfate	<0.097		1.92	2.02		ug/L		105	70 - 130
Endrin	<0.0097		1.92	2.06		ug/L		107	70 - 130
Endrin aldehyde	<0.097		1.92	1.73		ug/L		90	60 - 130
EPTC	<0.097		1.92	2.09		ug/L		109	70 - 130
Fluoranthene	<0.097		1.92	2.17		ug/L		112	70 - 130
Fluorene	<0.049		1.92	2.15		ug/L		112	70 - 130
gamma-Chlordane	<0.049		1.92	1.98		ug/L		103	70 - 130
Heptachlor	<0.0097		1.92	1.95		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.92	1.99		ug/L		103	70 - 130
Hexachlorobenzene	<0.049		1.92	1.97		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.049		1.92	2.02		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.92	2.03		ug/L		106	70 - 130
Isophorone	<0.097		1.92	2.10		ug/L		109	70 - 130
Lindane	<0.0097		1.92	2.11		ug/L		110	70 - 130
Malathion	<0.097		1.92	2.12		ug/L		110	70 - 130
Methoxychlor	<0.049		1.92	2.16		ug/L		112	70 - 130
Metolachlor	<0.049		1.92	2.10		ug/L		109	70 - 130
Molinate	<0.097		1.92	2.12		ug/L		110	70 - 130
Naphthalene	<0.097		1.92	1.91		ug/L		100	70 - 130
Parathion	<0.097		1.92	2.24		ug/L		117	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.92	2.15		ug/L		112	70 - 130
Phenanthrene	<0.039		1.92	2.09		ug/L		109	70 - 130
Propachlor	<0.049		1.92	2.22		ug/L		116	70 - 130
Pyrene	<0.049		1.92	2.18		ug/L		113	70 - 130
Simazine	<0.049		1.92	2.12		ug/L		110	70 - 130
Terbacil	<0.097		1.92	2.21		ug/L		115	70 - 130
Terbutylazine	<0.097		1.92	2.16		ug/L		112	70 - 130
Thiobencarb	<0.097		1.92	2.21		ug/L		115	70 - 130

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-230824-A-2-B MS

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	<0.049		1.92	1.96		ug/L		102	70 - 130
Trifluralin	<0.097		1.92	2.04		ug/L		106	70 - 130

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

Lab Sample ID: 380-230824-A-2-C MSD

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1-Methylnaphthalene	<0.097		1.93	2.07		ug/L		107	70 - 130	1	20
2,4'-DDD	<0.097		1.93	2.06		ug/L		107	70 - 130	0	20
2,4'-DDE	<0.097		1.93	2.00		ug/L		104	70 - 130	0	20
2,4'-DDT	<0.097		1.93	2.04		ug/L		106	70 - 130	0	20
2,4-Dinitrotoluene	<0.097		1.93	2.20		ug/L		114	70 - 130	0	20
2,6-Dinitrotoluene	<0.097		1.93	2.14		ug/L		111	70 - 130	0	20
2-Methylnaphthalene	<0.097		1.93	2.05		ug/L		106	70 - 130	0	20
4,4'-DDD	<0.097		1.93	2.04		ug/L		106	70 - 130	0	20
4,4'-DDE	<0.097		1.93	1.94		ug/L		100	70 - 130	1	20
4,4'-DDT	<0.097		1.93	2.06		ug/L		107	70 - 130	1	20
Acenaphthene	<0.097		1.93	2.06		ug/L		107	70 - 130	1	20
Acenaphthylene	<0.097		1.93	1.95		ug/L		101	70 - 130	1	20
Acetochlor	<0.097		1.93	2.12		ug/L		110	70 - 130	1	20
Alachlor	<0.049		1.93	2.11		ug/L		109	70 - 130	1	20
alpha-BHC	<0.097		1.93	2.12		ug/L		110	70 - 130	3	20
alpha-Chlordane	<0.049		1.93	1.99		ug/L		103	70 - 130	0	20
Anthracene	<0.019		1.93	1.46		ug/L		76	70 - 130	7	20
Atrazine	<0.049		1.93	2.18		ug/L		113	70 - 130	2	20
Benz(a)anthracene	<0.049		1.93	2.03		ug/L		105	70 - 130	1	20
Benzo[a]pyrene	<0.019		1.93	2.01		ug/L		104	70 - 130	4	20
Benzo[b]fluoranthene	<0.019		1.93	2.13		ug/L		110	70 - 130	2	20
Benzo[g,h,i]perylene	<0.049		1.93	2.08		ug/L		108	70 - 130	4	20
Benzo[k]fluoranthene	<0.019		1.93	2.15		ug/L		111	70 - 130	4	20
beta-BHC	<0.097		1.93	2.19		ug/L		114	70 - 130	5	20
Bis(2-ethylhexyl) phthalate	<0.58		1.93	2.03		ug/L		105	70 - 130	1	20
Bromacil	<0.097		1.93	2.12		ug/L		110	70 - 130	1	20
Butachlor	<0.049		1.93	2.18		ug/L		113	70 - 130	1	20
Butylbenzylphthalate	<0.49		1.93	2.35		ug/L		122	70 - 130	6	20
Chlorobenzilate	<0.097		1.93	2.14		ug/L		111	70 - 130	2	20
Chloroneb	<0.097		1.93	2.08		ug/L		108	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	<0.097		1.93	2.13		ug/L		110	70 - 130	1	20
Chlorpyrifos	<0.049		1.93	2.12		ug/L		110	70 - 130	1	20
Chrysene	<0.019		1.93	2.04		ug/L		106	70 - 130	2	20
delta-BHC	<0.097		1.93	2.12		ug/L		110	70 - 130	3	20
Di(2-ethylhexyl)adipate	<0.58		1.93	2.22		ug/L		115	70 - 130	1	20

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-230824-A-2-C MSD

Matrix: Water

Analysis Batch: 246874

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 246588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	<0.049		1.93	2.02		ug/L		105	70 - 130	3	20
Diclorvos (DDVP)	<0.049		1.93	2.12		ug/L		110	70 - 130	1	20
Dieldrin	<0.0097		1.93	2.02		ug/L		105	70 - 130	3	20
Diethylphthalate	<0.49		1.93	2.23		ug/L		116	70 - 130	2	20
Dimethylphthalate	<0.49		1.93	2.16		ug/L		112	70 - 130	2	20
Di-n-butyl phthalate	<0.97		3.86	4.57		ug/L		112	70 - 130	2	20
Di-n-octyl phthalate	<0.097		1.93	1.98		ug/L		102	70 - 130	0	20
Endosulfan I (Alpha)	<0.097		1.93	2.05		ug/L		106	70 - 130	2	20
Endosulfan II (Beta)	<0.097		1.93	2.09		ug/L		108	70 - 130	1	20
Endosulfan sulfate	<0.097		1.93	2.03		ug/L		105	70 - 130	0	20
Endrin	<0.0097		1.93	2.10		ug/L		109	70 - 130	2	20
Endrin aldehyde	<0.097		1.93	1.73		ug/L		90	60 - 130	0	20
EPTC	<0.097		1.93	2.15		ug/L		111	70 - 130	3	20
Fluoranthene	<0.097		1.93	2.14		ug/L		110	70 - 130	1	20
Fluorene	<0.049		1.93	2.13		ug/L		111	70 - 130	1	20
gamma-Chlordane	<0.049		1.93	2.00		ug/L		104	70 - 130	1	20
Heptachlor	<0.0097		1.93	1.95		ug/L		101	70 - 130	0	20
Heptachlor epoxide (isomer B)	<0.0097		1.93	2.01		ug/L		104	70 - 130	1	20
Hexachlorobenzene	<0.049		1.93	1.93		ug/L		100	70 - 130	2	20
Hexachlorocyclopentadiene	<0.049		1.93	1.98		ug/L		103	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	<0.049		1.93	2.07		ug/L		107	70 - 130	2	20
Isophorone	<0.097		1.93	2.18		ug/L		113	70 - 130	4	20
Lindane	<0.0097		1.93	2.14		ug/L		111	70 - 130	2	20
Malathion	<0.097		1.93	2.14		ug/L		111	70 - 130	1	20
Methoxychlor	<0.049		1.93	2.15		ug/L		111	70 - 130	0	20
Metolachlor	<0.049		1.93	2.14		ug/L		111	70 - 130	2	20
Molinate	<0.097		1.93	2.15		ug/L		112	70 - 130	1	20
Naphthalene	<0.097		1.93	1.92		ug/L		100	70 - 130	0	20
Parathion	<0.097		1.93	2.25		ug/L		117	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.097		1.93	2.14		ug/L		111	70 - 130	0	20
Phenanthrene	<0.039		1.93	2.06		ug/L		107	70 - 130	1	20
Propachlor	<0.049		1.93	2.26		ug/L		117	70 - 130	2	20
Pyrene	<0.049		1.93	2.16		ug/L		112	70 - 130	1	20
Simazine	<0.049		1.93	2.17		ug/L		112	70 - 130	2	20
Terbacil	<0.097		1.93	2.26		ug/L		117	70 - 130	2	20
Terbutylazine	<0.097		1.93	2.21		ug/L		115	70 - 130	2	20
Thiobencarb	<0.097		1.93	2.23		ug/L		116	70 - 130	1	20
trans-Nonachlor	<0.049		1.93	1.97		ug/L		102	70 - 130	0	20
Trifluralin	<0.097		1.93	2.07		ug/L		107	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	105		70 - 130

QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-785520/1-A
Matrix: Water
Analysis Batch: 786745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785520

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>08/17/26 08:35</i>	<i>08/19/26 07:41</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	87		33 - 139				08/17/26 08:35	08/19/26 07:41	1
2-Fluorobiphenyl (Surr)	98		33 - 126				08/17/26 08:35	08/19/26 07:41	1
2-Fluorophenol (Surr)	63		12 - 120				08/17/26 08:35	08/19/26 07:41	1
Nitrobenzene-d5 (Surr)	109		36 - 120				08/17/26 08:35	08/19/26 07:41	1
Phenol-d6 (Surr)	41		10 - 120				08/17/26 08:35	08/19/26 07:41	1
p-Terphenyl-d14 (Surr)	98		47 - 131				08/17/26 08:35	08/19/26 07:41	1

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

Lab Sample ID: MB 570-785520/1-A
Matrix: Water
Analysis Batch: 787693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785520

<i>Analyte</i>	<i>Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Acenaphthene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Acenaphthylene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Anthracene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Chrysene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Fluoranthene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Fluorene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Naphthalene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Phenanthrene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
Pyrene	<0.20		0.20	ug/L		08/17/26 08:35	08/20/26 14:49	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	91		28 - 127			08/17/26 08:35	08/20/26 14:49	1
2-Fluorobiphenyl (Surr)	82		31 - 120			08/17/26 08:35	08/20/26 14:49	1
2-Fluorophenol (Surr)	55		17 - 120			08/17/26 08:35	08/20/26 14:49	1
Nitrobenzene-d5 (Surr)	88		27 - 120			08/17/26 08:35	08/20/26 14:49	1
Phenol-d6 (Surr)	34		10 - 120			08/17/26 08:35	08/20/26 14:49	1
p-Terphenyl-d14 (Surr)	76		45 - 120			08/17/26 08:35	08/20/26 14:49	1

QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-785520/2-A

Matrix: Water

Analysis Batch: 787693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 785520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	10.9		ug/L		55	47 - 120
2-Methylnaphthalene	20.0	10.8		ug/L		54	43 - 120
Acenaphthene	20.0	14.6		ug/L		73	60 - 132
Acenaphthylene	20.0	14.6		ug/L		73	54 - 126
Anthracene	20.0	14.6		ug/L		73	43 - 120
Benzo[a]anthracene	20.0	16.5		ug/L		82	42 - 133
Benzo[a]pyrene	20.0	19.3		ug/L		97	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	16.4		ug/L		82	25 - 146
Chrysene	20.0	15.4		ug/L		77	44 - 140
Dibenz(a,h)anthracene	20.0	17.3		ug/L		87	1 - 200
Fluoranthene	20.0	14.8		ug/L		74	43 - 121
Fluorene	20.0	14.5		ug/L		73	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.7		ug/L		78	1 - 151
Naphthalene	20.0	10.4		ug/L		52	36 - 120
Phenanthrene	20.0	14.8		ug/L		74	65 - 120
Pyrene	20.0	17.2		ug/L		86	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

Lab Sample ID: LCSD 570-785520/3-A

Matrix: Water

Analysis Batch: 787693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 785520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	10.8		ug/L		54	47 - 120	1	20
2-Methylnaphthalene	20.0	10.5		ug/L		53	43 - 120	2	20
Acenaphthene	20.0	14.5		ug/L		73	60 - 132	1	29
Acenaphthylene	20.0	14.1		ug/L		71	54 - 126	3	45
Anthracene	20.0	14.9		ug/L		75	43 - 120	2	40
Benzo[a]anthracene	20.0	17.2		ug/L		86	42 - 133	4	32
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148	1	43
Benzo[b]fluoranthene	20.0	17.1		ug/L		86	42 - 140	1	43
Benzo[g,h,i]perylene	20.0	16.7		ug/L		84	1 - 195	1	61
Benzo[k]fluoranthene	20.0	16.7		ug/L		83	25 - 146	2	38
Chrysene	20.0	16.0		ug/L		80	44 - 140	4	53
Dibenz(a,h)anthracene	20.0	17.7		ug/L		89	1 - 200	3	75
Fluoranthene	20.0	15.0		ug/L		75	43 - 121	1	40
Fluorene	20.0	14.6		ug/L		73	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	16.2		ug/L		81	1 - 151	3	60
Naphthalene	20.0	9.95		ug/L		50	36 - 120	5	39

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-785520/3-A

Matrix: Water

Analysis Batch: 787693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 785520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	15.0		ug/L		75	65 - 120	2	24
Pyrene	20.0	18.8		ug/L		94	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	79		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: 380-231117-A-1-A MS

Matrix: Water

Analysis Batch: 786738

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 785520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.0	12.7		ug/L		67	36 - 120
2-Methylnaphthalene	<0.19		19.0	12.6		ug/L		66	32 - 124
Acenaphthene	<0.19		19.0	17.6		ug/L		93	47 - 145
Acenaphthylene	<0.19		19.0	17.6		ug/L		92	33 - 145
Anthracene	<0.19		19.0	17.8		ug/L		94	27 - 133
Benzo[a]anthracene	<0.19		19.0	20.1		ug/L		106	33 - 143
Benzo[a]pyrene	<0.19		19.0	23.6		ug/L		124	17 - 163
Benzo[b]fluoranthene	<0.19		19.0	21.0		ug/L		110	24 - 159
Benzo[g,h,i]perylene	<0.19		19.0	19.9		ug/L		105	1 - 219
Benzo[k]fluoranthene	<0.19		19.0	20.1		ug/L		105	11 - 162
Chrysene	<0.19		19.0	18.8		ug/L		99	17 - 168
Dibenz(a,h)anthracene	<0.19		19.0	20.8		ug/L		109	1 - 227
Fluoranthene	<0.19		19.0	18.8		ug/L		99	26 - 137
Fluorene	<0.19		19.0	17.8		ug/L		93	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.0	19.1		ug/L		100	1 - 171
Naphthalene	<0.19		19.0	12.0		ug/L		63	21 - 133
Phenanthrene	<0.19		19.0	18.0		ug/L		95	54 - 120
Pyrene	<0.19		19.0	20.1		ug/L		106	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	93		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-231117-A-1-B MSD

Matrix: Water

Analysis Batch: 786738

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 785520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	11.9		ug/L		62	36 - 120	6	30
2-Methylnaphthalene	<0.19		19.1	11.8		ug/L		62	32 - 124	7	30
Acenaphthene	<0.19		19.1	16.1		ug/L		84	47 - 145	9	48
Acenaphthylene	<0.19		19.1	15.7		ug/L		82	33 - 145	11	74
Anthracene	<0.19		19.1	16.0		ug/L		84	27 - 133	11	66
Benzo[a]anthracene	<0.19		19.1	18.1		ug/L		95	33 - 143	10	53
Benzo[a]pyrene	<0.19		19.1	21.0		ug/L		110	17 - 163	12	72
Benzo[b]fluoranthene	<0.19		19.1	18.9		ug/L		99	24 - 159	10	71
Benzo[g,h,i]perylene	<0.19		19.1	17.9		ug/L		94	1 - 219	11	97
Benzo[k]fluoranthene	<0.19		19.1	17.7		ug/L		93	11 - 162	12	63
Chrysene	<0.19		19.1	16.9		ug/L		88	17 - 168	11	87
Dibenz(a,h)anthracene	<0.19		19.1	18.3		ug/L		96	1 - 227	13	126
Fluoranthene	<0.19		19.1	16.9		ug/L		88	26 - 137	11	66
Fluorene	<0.19		19.1	16.3		ug/L		86	59 - 121	9	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	17.2		ug/L		90	1 - 171	10	99
Naphthalene	<0.19		19.1	11.3		ug/L		59	21 - 133	6	65
Phenanthrene	<0.19		19.1	16.3		ug/L		85	54 - 120	10	39
Pyrene	<0.19		19.1	17.7		ug/L		93	52 - 120	13	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

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

Lab Sample ID: MB 570-787806/36

Matrix: Water

Analysis Batch: 787806

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			08/20/26 23:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134		08/20/26 23:59	1

Lab Sample ID: LCS 570-787806/33

Matrix: Water

Analysis Batch: 787806

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	357		ug/L		89	78 - 120

Eurofins Pomona

QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-787806/33

Matrix: Water

Analysis Batch: 787806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		38 - 134

Lab Sample ID: LCSD 570-787806/34

Matrix: Water

Analysis Batch: 787806

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	340		ug/L		85	78 - 120	5	10

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

Lab Sample ID: MRL 570-787806/35

Matrix: Water

Analysis Batch: 787806

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	17.9	^3+	ug/L		179	50 - 150		

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

Lab Sample ID: 380-231117-C-1 MS

Matrix: Water

Analysis Batch: 787806

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	^3+	400	314		ug/L		78	68 - 122		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		38 - 134

Lab Sample ID: 380-231117-C-1 MSD

Matrix: Water

Analysis Batch: 787806

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	^3+	400	331		ug/L		83	68 - 122	5	18

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

Eurofins Pomona

QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-783767/1-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 783767

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/13/26 10:21	08/23/26 01:11	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/13/26 10:21	08/23/26 01:11	1
C8-C18	<25		25	ug/L		08/13/26 10:21	08/23/26 01:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		60 - 130			08/13/26 10:21	08/23/26 01:11	1

Lab Sample ID: LCS 570-783767/2-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1550		ug/L		97	56 - 127
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	101		60 - 130				

Lab Sample ID: LCSD 570-783767/3-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1570		ug/L		98	56 - 127	1	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	108		60 - 130						

Lab Sample ID: MRL 570-783767/4-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0286		mg/L		143	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
n-Octacosane (Surr)	105		60 - 130				

Lab Sample ID: 380-230428-B-1-A MS

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1650	1320		ug/L		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	88		60 - 130						

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QC Sample Results

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-230428-B-1-B MSD
Matrix: Water
Analysis Batch: 788809

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 783767

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1660	1530		ug/L		92	70 - 130	15	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	92		60 - 130								

QC Association Summary

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 246588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-246588/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-246588/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-246588/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-230824-A-2-B MS	Matrix Spike	Total/NA	Water	525.2	
380-230824-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 246874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	246588
MB 380-246588/21-A	Method Blank	Total/NA	Water	525.2	246588
LCS 380-246588/23-A	Lab Control Sample	Total/NA	Water	525.2	246588
MRL 380-246588/22-A	Lab Control Sample	Total/NA	Water	525.2	246588
380-230824-A-2-B MS	Matrix Spike	Total/NA	Water	525.2	246588
380-230824-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	246588

Prep Batch: 785520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-785520/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-785520/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-785520/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-231117-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-231117-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 786738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	785520
380-231117-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	785520
380-231117-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	785520

Analysis Batch: 786745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	785520
MB 570-785520/1-A	Method Blank	Total/NA	Water	625.1	785520

Analysis Batch: 787693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-785520/1-A	Method Blank	Total/NA	Water	625.1 SIM	785520
LCS 570-785520/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	785520
LCSD 570-785520/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	785520

GC VOA

Analysis Batch: 787806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-230723-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-787806/36	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-787806/33	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-787806/34	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

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QC Association Summary

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA (Continued)

Analysis Batch: 787806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-787806/35	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-231117-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-231117-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 783767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-783767/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-783767/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-783767/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-783767/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-230428-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-230428-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 788809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230723-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	783767
MB 570-783767/1-A	Method Blank	Total/NA	Water	8015B	783767
LCS 570-783767/2-A	Lab Control Sample	Total/NA	Water	8015B	783767
LCSD 570-783767/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	783767
MRL 570-783767/4-A	Lab Control Sample	Total/NA	Water	8015B	783767
380-230428-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	783767
380-230428-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	783767

Lab Chronicle

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

Job ID: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-1

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			246588	L9UA	EA POM	08/14/26 14:10
Total/NA	Analysis	525.2		1	246874	Q8LA	EA POM	08/17/26 16:52
Total/NA	Prep	625.1			785520	KLZQ	EET CAL 4	08/18/26 07:45
Total/NA	Analysis	625.1		1	786745	PQS1	EET CAL 4	08/19/26 10:06
Total/NA	Prep	625.1			785520	KLZQ	EET CAL 4	08/18/26 07:45
Total/NA	Analysis	625.1 SIM		1	786738	PQS1	EET CAL 4	08/19/26 13:22
Total/NA	Analysis	8015B GRO LL		1	787806	W4LC	EET CAL 4	08/21/26 00:48
Total/NA	Prep	3510C			783767	EP2G	EET CAL 4	08/14/26 06:12
Total/NA	Analysis	8015B		1	788809	H6FE	EET CAL 4	08/23/26 05:51

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-230723-2

Date Collected: 08/11/26 09:30

Matrix: Water

Date Received: 08/13/26 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	787806	W4LC	EET CAL 4	08/21/26 04:52

Laboratory References:

EA POM = Eurofins 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: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26 *
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. This list may include analytes for which the agency does not offer certification:			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbuthylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	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	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

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

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Accreditation/Certification Summary

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

Job ID: 380-230723-1
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	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-30-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-230723-1
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 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: 380-230723-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-230723-1	HALAWA SHAFT VIEWING POOL	Water	08/11/26 09:30	08/13/26 09:46	Hawaii
380-230723-2	TB: HALAWA SHAFT VIEWING POOL	Water	08/11/26 09:30	08/13/26 09:46	Hawaii

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

 The Eurofins logo, consisting of a stylized globe icon followed by the word "eurofins" in a sans-serif font.

380-230723 COC

[illegible]

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

SHIP DATE: 12AUG26
ACTWGT: 56.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

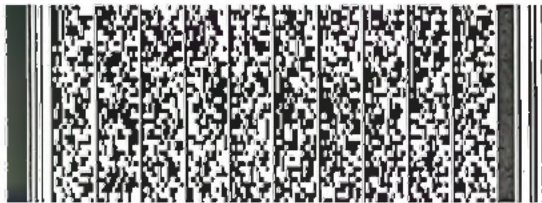
(626) 386-1100

REF:

INV:

PO:

DEPT:



3 of 3

THU - 13 AUG 10:30A
PRIORITY OVERNIGHT

MPS#

0263

8756 9998 6686

Mstr# 8756 9998 6664

0201

WM ONTA

91768

CA-US ONT



(631A) 3.6 + 0.2 = 3.8 961-10261

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380-230723 COC

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

SHIP DATE: 12AUG26
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BILL RECIPIENT

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

POMONA CA 91768

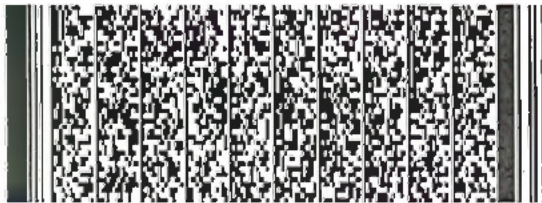
(626) 386-1100

REF:

INV:

PO:

DEPT:



3 of 3

THU - 13 AUG 10:30A
PRIORITY OVERNIGHT

MPS#

0263

8756 9998 6686

Mstr# 8756 9998 6664

0201

WM ONTA

91768

CA-US ONT



(631A) 3.6 + 0.2 = 3.8 961-10261

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8/24/2026

8/24/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-230723-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 230723

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins 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").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-230723-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 230723

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/13/26 07:41 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.	True	
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	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	