

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-200156-1

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: 380-200156-1
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.
S1+	Surrogate recovery exceeds control limits, high 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.

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: 380-200156-1

Job ID: 380-200156-1

Eurofins Pomona

Job Narrative 380-200156-1

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 2/26/2026 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-2

No Detections.

- 1
- 2
- 3
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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-1

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
2,4'-DDD	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
2,4'-DDE	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
2,4'-DDT	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
4,4'-DDD	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
4,4'-DDE	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
4,4'-DDT	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Acenaphthene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Acenaphthylene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Acetochlor	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Alachlor	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
alpha-BHC	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
alpha-Chlordane	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Anthracene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 16:12	1
Atrazine	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 16:12	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 16:12	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 16:12	1
beta-BHC	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/04/26 07:54	03/05/26 16:12	1
Bromacil	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Butachlor	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/04/26 07:54	03/05/26 16:12	1
Chlorobenzilate	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Chloroneb	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Chlorpyrifos	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Chrysene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 16:12	1
delta-BHC	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/04/26 07:54	03/05/26 16:12	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Dieldrin	<0.0098		0.0098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Diethylphthalate	<0.49		0.49	ug/L		03/04/26 07:54	03/05/26 16:12	1
Dimethylphthalate	<0.49		0.49	ug/L		03/04/26 07:54	03/05/26 16:12	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/04/26 07:54	03/05/26 16:12	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Endrin	<0.0098		0.0098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Endrin aldehyde	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
EPTC	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Fluoranthene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1

Client Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-1

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
gamma-Chlordane	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Heptachlor	<0.0098		0.0098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Isophorone	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Lindane	<0.0098		0.0098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Malathion	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Methoxychlor	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Metolachlor	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Molinate	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Naphthalene	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Parathion	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Phenanthrene	<0.039		0.039	ug/L		03/04/26 07:54	03/05/26 16:12	1
Propachlor	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Pyrene	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Simazine	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Terbacil	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Terbutylazine	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Thiobencarb	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/04/26 07:54	03/05/26 16:12	1
trans-Nonachlor	<0.049		0.049	ug/L		03/04/26 07:54	03/05/26 16:12	1
Trifluralin	<0.098		0.098	ug/L		03/04/26 07:54	03/05/26 16:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/04/26 07:54	03/05/26 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	03/04/26 07:54	03/05/26 16:12	1
Perylene-d12	93		70 - 130	03/04/26 07:54	03/05/26 16:12	1
Triphenylphosphate	104		70 - 130	03/04/26 07:54	03/05/26 16:12	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		02/27/26 17:45	03/02/26 12:33	1
2-Methylnaphthalene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Acenaphthene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Acenaphthylene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Anthracene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Benzo[a]anthracene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Benzo[a]pyrene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Chrysene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Fluoranthene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-1

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

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		02/27/26 17:45	03/02/26 12:33	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Naphthalene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Phenanthrene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1
Pyrene	<0.19		0.19	ug/L		02/27/26 17:45	03/02/26 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		28 - 127	02/27/26 17:45	03/02/26 12:33	1
2-Fluorobiphenyl (Surr)	84		31 - 120	02/27/26 17:45	03/02/26 12:33	1
2-Fluorophenol (Surr)	58		17 - 120	02/27/26 17:45	03/02/26 12:33	1
Nitrobenzene-d5 (Surr)	86		27 - 120	02/27/26 17:45	03/02/26 12:33	1
Phenol-d6 (Surr)	34		10 - 120	02/27/26 17:45	03/02/26 12:33	1
p-Terphenyl-d14 (Surr)	79		45 - 120	02/27/26 17:45	03/02/26 12:33	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
Cyclic octaatomic sulfur	2.4	T J N	ug/L		9.80	10544-50-0	02/27/26 17:45	03/12/26 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	129		33 - 139	02/27/26 17:45	03/12/26 15:03	1
2-Fluorobiphenyl (Surr)	92		33 - 126	02/27/26 17:45	03/12/26 15:03	1
2-Fluorophenol (Surr)	65		12 - 120	02/27/26 17:45	03/12/26 15:03	1
Nitrobenzene-d5 (Surr)	132	S1+	36 - 120	02/27/26 17:45	03/12/26 15:03	1
Phenol-d6 (Surr)	39		10 - 120	02/27/26 17:45	03/12/26 15:03	1
p-Terphenyl-d14 (Surr)	97		47 - 131	02/27/26 17:45	03/12/26 15:03	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			03/07/26 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134		03/07/26 17:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		03/01/26 09:19	03/08/26 19:05	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/01/26 09:19	03/08/26 19:05	1
C8-C18	<26		26	ug/L		03/01/26 09:19	03/08/26 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	70		60 - 130	03/01/26 09:19	03/08/26 19:05	1

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-2

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			03/07/26 21:56	1

Client Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-2

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

<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)	91		38 - 134		03/07/26 21:56	1

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

Action Limit Summary

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

Job ID: 380-200156-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-200156-1
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)
380-200152-L-1-A MS	Matrix Spike	88	93	109
380-200156-1	HALAWA SHAFT VIEWING POOL	100	93	104
380-200156-1 DU	HALAWA SHAFT VIEWING POOL	99	90	105
LCS 380-210481/23-A	Lab Control Sample	99	95	108
MB 380-210481/21-A	Method Blank	88	84	102
MRL 380-210481/22-A	Lab Control Sample	88	87	104

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)
380-200156-1	HALAWA SHAFT VIEWING POOL	129	92	65	132 S1+	39	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 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)
380-199926-A-1-A MS	Matrix Spike	101	93	72	81	44	95
380-199926-C-1-A MSD	Matrix Spike Duplicate	110	100	79	88	50	100
380-200156-1	HALAWA SHAFT VIEWING POOL	97	84	58	86	34	79
LCS 570-702398/2-A	Lab Control Sample	109	99	82	85	51	103
LCS 570-702398/3-A	Lab Control Sample Dup	109	96	80	102	49	98
MB 570-702398/1-A	Method Blank	114	95	64	96	37	86

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: 380-200156-1
 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)	
380-200156-1	HALAWA SHAFT VIEWING POOL	87	
380-200156-2	TB: HALAWA SHAFT VIEWING POOL	91	
380-200889-C-1 MS	Matrix Spike	76	
380-200889-C-1 MSD	Matrix Spike Duplicate	86	
LCS 570-705930/3	Lab Control Sample	80	
LCSD 570 705930/4	Lab Control Sample Dup	85	
MB 570-705930/5	Method Blank	84	
MRL 570-705930/6	Lab Control Sample	84	
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)	
380-199926-A-1-C MSD	Matrix Spike Duplicate	91	
380-199926-B-1-A MS	Matrix Spike	91	
380-200156-1	HALAWA SHAFT VIEWING POOL	70	
LCS 570-702755/2-A	Lab Control Sample	94	
LCSD 570-702755/3-A	Lab Control Sample Dup	95	
MB 570-702755/1-A	Method Blank	87	
MRL 570-702755/4-A	Lab Control Sample	96	
Surrogate Legend			
OTCSN = n-Octacosane (Surr)			

QC Sample Results

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

Job ID: 380-200156-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-210481/21-A
Matrix: Water
Analysis Batch: 210938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 210481

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
2,4'-DDD	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
2,4'-DDE	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
2,4'-DDT	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
2-Methylnaphthalene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
4,4'-DDD	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
4,4'-DDE	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
4,4'-DDT	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Acenaphthene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Acenaphthylene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Acetochlor	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Alachlor	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
alpha-BHC	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
alpha-Chlordane	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Anthracene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 11:48	1
Atrazine	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Benz(a)anthracene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 11:48	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 11:48	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 11:48	1
beta-BHC	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/04/26 07:54	03/05/26 11:48	1
Bromacil	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Butachlor	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Butylbenzylphthalate	<0.50		0.50	ug/L		03/04/26 07:54	03/05/26 11:48	1
Chlorobenzilate	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Chloroneb	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Chlorpyrifos	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Chrysene	<0.020		0.020	ug/L		03/04/26 07:54	03/05/26 11:48	1
delta-BHC	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/04/26 07:54	03/05/26 11:48	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Dieldrin	<0.0099		0.0099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Diethylphthalate	<0.50		0.50	ug/L		03/04/26 07:54	03/05/26 11:48	1
Dimethylphthalate	<0.50		0.50	ug/L		03/04/26 07:54	03/05/26 11:48	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		03/04/26 07:54	03/05/26 11:48	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Endosulfan sulfate	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Endrin	<0.0099		0.0099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Endrin aldehyde	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
EPTC	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-210481/21-A
Matrix: Water
Analysis Batch: 210938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 210481

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Fluorene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
gamma-Chlordane	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Heptachlor	<0.0099		0.0099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Hexachlorobenzene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Isophorone	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Lindane	<0.0099		0.0099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Malathion	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Methoxychlor	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Metolachlor	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Molinate	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Naphthalene	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Parathion	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Phenanthrene	<0.040		0.040	ug/L		03/04/26 07:54	03/05/26 11:48	1
Propachlor	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Pyrene	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Simazine	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Terbacil	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Terbutylazine	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Thiobencarb	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/04/26 07:54	03/05/26 11:48	1
trans-Nonachlor	<0.050		0.050	ug/L		03/04/26 07:54	03/05/26 11:48	1
Trifluralin	<0.099		0.099	ug/L		03/04/26 07:54	03/05/26 11:48	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.61	T J N	ug/L		2.56	1000154-28-6	03/04/26 07:54	03/05/26 11:48	1
Pentadecane, 7-methyl-	1.01	T J N	ug/L		3.03	6165-40-8	03/04/26 07:54	03/05/26 11:48	1
Undecane	5.13	T J N	ug/L		3.16	1120-21-4	03/04/26 07:54	03/05/26 11:48	1
Unknown	0.719	T J	ug/L		3.29	N/A	03/04/26 07:54	03/05/26 11:48	1
Unknown	0.788	T J	ug/L		3.91	N/A	03/04/26 07:54	03/05/26 11:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	88		70 - 130	03/04/26 07:54	03/05/26 11:48	1
Perylene-d12	84		70 - 130	03/04/26 07:54	03/05/26 11:48	1
Triphenylphosphate	102		70 - 130	03/04/26 07:54	03/05/26 11:48	1

Lab Sample ID: LCS 380-210481/23-A
Matrix: Water
Analysis Batch: 210987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 210481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.98	2.09		ug/L		105	70 - 130

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-210481/23-A

Matrix: Water

Analysis Batch: 210987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDE	1.98	1.99		ug/L		100	70 - 130
2,4'-DDT	1.98	2.14		ug/L		108	70 - 130
2,4-Dinitrotoluene	1.98	2.09		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.98	2.03		ug/L		102	70 - 130
2-Methylnaphthalene	1.98	2.01		ug/L		101	70 - 130
4,4'-DDD	1.98	2.08		ug/L		105	70 - 130
4,4'-DDE	1.98	2.11		ug/L		106	70 - 130
4,4'-DDT	1.98	2.15		ug/L		109	70 - 130
Acenaphthene	1.98	2.04		ug/L		103	70 - 130
Acenaphthylene	1.98	2.15		ug/L		108	70 - 130
Acetochlor	1.98	2.11		ug/L		106	70 - 130
Alachlor	1.98	2.34		ug/L		118	70 - 130
alpha-BHC	1.98	2.23		ug/L		112	70 - 130
alpha-Chlordane	1.98	2.10		ug/L		106	70 - 130
Anthracene	1.98	2.11		ug/L		106	70 - 130
Atrazine	1.98	2.11		ug/L		106	70 - 130
Benz(a)anthracene	1.98	2.14		ug/L		108	70 - 130
Benzo[a]pyrene	1.98	2.17		ug/L		109	70 - 130
Benzo[b]fluoranthene	1.98	2.17		ug/L		109	70 - 130
Benzo[g,h,i]perylene	1.98	1.96		ug/L		99	70 - 130
Benzo[k]fluoranthene	1.98	1.94		ug/L		98	70 - 130
beta-BHC	1.98	2.19		ug/L		110	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.07		ug/L		104	70 - 130
Bromacil	1.98	1.67		ug/L		84	70 - 130
Butachlor	1.98	2.22		ug/L		112	70 - 130
Butylbenzylphthalate	1.98	2.20		ug/L		111	70 - 130
Chlorobenzilate	1.98	2.42		ug/L		122	70 - 130
Chloroneb	1.98	2.14		ug/L		108	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.20		ug/L		111	70 - 130
Chlorpyrifos	1.98	2.09		ug/L		105	70 - 130
Chrysene	1.98	2.12		ug/L		107	70 - 130
delta-BHC	1.98	2.15		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.18		ug/L		110	70 - 130
Dibenz(a,h)anthracene	1.98	1.90		ug/L		96	70 - 130
Diclorvos (DDVP)	1.98	1.94		ug/L		98	70 - 130
Dieldrin	1.98	2.17		ug/L		110	70 - 130
Diethylphthalate	1.98	2.22		ug/L		112	70 - 130
Dimethylphthalate	1.98	2.10		ug/L		106	70 - 130
Di-n-butyl phthalate	3.97	4.40		ug/L		111	70 - 130
Di-n-octyl phthalate	1.98	1.99		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.98	2.09		ug/L		105	70 - 130
Endosulfan II (Beta)	1.98	2.21		ug/L		112	70 - 130
Endosulfan sulfate	1.98	2.08		ug/L		105	70 - 130
Endrin	1.98	2.57		ug/L		130	70 - 130
Endrin aldehyde	1.98	2.19		ug/L		110	60 - 130
EPTC	1.98	2.14		ug/L		108	70 - 130
Fluoranthene	1.98	2.03		ug/L		102	70 - 130
Fluorene	1.98	2.17		ug/L		109	70 - 130
gamma-Chlordane	1.98	2.12		ug/L		107	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-210481/23-A

Matrix: Water

Analysis Batch: 210987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.98	2.25		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.15		ug/L		109	70 - 130
Hexachlorobenzene	1.98	1.92		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.98	2.12		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.88		ug/L		95	70 - 130
Isophorone	1.98	1.92		ug/L		97	70 - 130
Lindane	1.98	2.24		ug/L		113	70 - 130
Malathion	1.98	2.27		ug/L		114	70 - 130
Methoxychlor	1.98	2.20		ug/L		111	70 - 130
Metolachlor	1.98	2.15		ug/L		109	70 - 130
Molinate	1.98	2.17		ug/L		109	70 - 130
Naphthalene	1.98	1.95		ug/L		98	70 - 130
Parathion	1.98	2.44		ug/L		123	70 - 130
Pendimethalin (Penoxaline)	1.98	2.38		ug/L		120	70 - 130
Phenanthrene	1.98	2.07		ug/L		104	70 - 130
Propachlor	1.98	2.24		ug/L		113	70 - 130
Pyrene	1.98	2.29		ug/L		116	70 - 130
Simazine	1.98	1.89		ug/L		95	70 - 130
Terbacil	1.98	1.97		ug/L		99	70 - 130
Terbutylazine	1.98	2.16		ug/L		109	70 - 130
Thiobencarb	1.98	2.03		ug/L		102	70 - 130
trans-Nonachlor	1.98	1.99		ug/L		100	70 - 130
Trifluralin	1.98	2.12		ug/L		107	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: MRL 380-210481/22-A

Matrix: Water

Analysis Batch: 210938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.0981	J	ug/L		99	50 - 150
2,4'-DDD	0.0994	0.0868	J	ug/L		87	50 - 150
2,4'-DDE	0.0994	0.0989	J	ug/L		100	50 - 150
2,4'-DDT	0.0994	0.0985	J	ug/L		99	50 - 150
2,4-Dinitrotoluene	0.0994	0.0846	J	ug/L		85	50 - 150
2,6-Dinitrotoluene	0.0994	0.0951	J	ug/L		96	50 - 150
2-Methylnaphthalene	0.0994	0.0932	J	ug/L		94	50 - 150
4,4'-DDD	0.0994	0.104		ug/L		105	50 - 150
4,4'-DDE	0.0994	0.0812	J	ug/L		82	50 - 150
4,4'-DDT	0.0994	0.116		ug/L		117	50 - 150
Acenaphthene	0.0994	0.0789	J	ug/L		79	50 - 150
Acenaphthylene	0.0994	0.0870	J	ug/L		88	50 - 150
Acetochlor	0.0994	0.0938	J	ug/L		94	50 - 150
Alachlor	0.0497	0.0468	J	ug/L		94	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-210481/22-A

Matrix: Water

Analysis Batch: 210938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
alpha-BHC	0.0994	0.0933	J	ug/L		94	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		102	50 - 150
Anthracene	0.0199	0.0229		ug/L		115	50 - 150
Atrazine	0.0497	0.0532		ug/L		107	50 - 150
Benz(a)anthracene	0.0497	0.0528		ug/L		106	50 - 150
Benzo[a]pyrene	0.0199	0.0197	J	ug/L		99	50 - 150
Benzo[b]fluoranthene	0.0199	0.0237		ug/L		119	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0497	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0199	0.0247		ug/L		124	50 - 150
beta-BHC	0.0994	0.104		ug/L		105	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.561	J	ug/L		94	50 - 150
Bromacil	0.0994	0.0851	J	ug/L		86	50 - 150
Butachlor	0.0497	0.0477	J	ug/L		96	50 - 150
Butylbenzylphthalate	0.497	0.493	J	ug/L		99	50 - 150
Chlorobenzilate	0.0994	0.0851	J	ug/L		86	50 - 150
Chloroneb	0.0994	0.110		ug/L		111	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.0817	J	ug/L		82	50 - 150
Chlorpyrifos	0.0497	0.0583		ug/L		117	50 - 150
Chrysene	0.0199	0.0263		ug/L		132	50 - 150
delta-BHC	0.0994	0.0948	J	ug/L		95	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.606		ug/L		102	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0519		ug/L		104	50 - 150
Diclorvos (DDVP)	0.0497	0.0522		ug/L		105	50 - 150
Dieldrin	0.00994	0.0103		ug/L		104	50 - 150
Diethylphthalate	0.497	0.503		ug/L		101	50 - 150
Dimethylphthalate	0.497	0.488	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.497	0.481	J	ug/L		97	49 - 243
Di-n-octyl phthalate	0.0994	0.0852	J	ug/L		86	50 - 150
Endosulfan I (Alpha)	0.0994	0.0766	J	ug/L		77	50 - 150
Endosulfan II (Beta)	0.0994	0.102		ug/L		103	50 - 150
Endosulfan sulfate	0.0994	0.0917	J	ug/L		92	50 - 150
Endrin	0.00994	0.00989	J	ug/L		100	50 - 150
Endrin aldehyde	0.0994	0.0910	J	ug/L		92	50 - 150
EPTC	0.0994	0.0922	J	ug/L		93	50 - 150
Fluoranthene	0.0994	0.108		ug/L		109	50 - 150
Fluorene	0.0497	0.0516		ug/L		104	50 - 150
gamma-Chlordane	0.0248	0.0233	J	ug/L		94	50 - 150
Heptachlor	0.00994	0.0122		ug/L		123	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.00863	J	ug/L		87	50 - 150
Hexachlorobenzene	0.0497	0.0426	J	ug/L		86	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0403	J	ug/L		81	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0515		ug/L		104	50 - 150
Isophorone	0.0994	0.103		ug/L		103	50 - 150
Lindane	0.00994	0.0129		ug/L		130	50 - 150
Malathion	0.0994	0.0912	J	ug/L		92	50 - 150
Methoxychlor	0.0497	0.0586		ug/L		118	50 - 150
Metolachlor	0.0497	0.0506		ug/L		102	50 - 150
Molinate	0.0994	0.0939	J	ug/L		95	50 - 150
Naphthalene	0.0994	0.0871	J	ug/L		88	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-210481/22-A

Matrix: Water

Analysis Batch: 210938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Parathion	0.0994	0.0847	J	ug/L		85	50 - 150
Pendimethalin (Penoxaline)	0.0994	0.0965	J	ug/L		97	50 - 150
Phenanthrene	0.0397	0.0460		ug/L		116	50 - 150
Propachlor	0.0497	0.0467	J	ug/L		94	50 - 150
Pyrene	0.0497	0.0544		ug/L		109	50 - 150
Simazine	0.0497	0.0451	J	ug/L		91	50 - 150
Terbacil	0.0994	0.0760	J	ug/L		77	50 - 150
Terbutylazine	0.0994	0.104		ug/L		104	50 - 150
Thiobencarb	0.0994	0.0981	J	ug/L		99	50 - 150
trans-Nonachlor	0.0248	0.0278	J	ug/L		112	50 - 150
Trifluralin	0.0994	0.0803	J	ug/L		81	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	88		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: 380-200152-L-1-A MS

Matrix: Water

Analysis Batch: 210938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.097		1.94	1.80		ug/L		93	70 - 130
2,4'-DDD	<0.097		1.94	1.81		ug/L		94	70 - 130
2,4'-DDE	<0.097		1.94	1.64		ug/L		85	70 - 130
2,4'-DDT	<0.097		1.94	1.93		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	1.71		ug/L		88	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	1.62		ug/L		84	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.84		ug/L		95	70 - 130
4,4'-DDD	<0.097		1.94	1.88		ug/L		97	70 - 130
4,4'-DDE	<0.097		1.94	1.87		ug/L		97	70 - 130
4,4'-DDT	<0.097		1.94	1.88		ug/L		97	70 - 130
Acenaphthene	<0.097		1.94	1.87		ug/L		97	70 - 130
Acenaphthylene	<0.097		1.94	1.74		ug/L		90	70 - 130
Acetochlor	<0.097		1.94	1.73		ug/L		89	70 - 130
Alachlor	<0.049		1.94	1.73		ug/L		89	70 - 130
alpha-BHC	<0.097		1.94	1.70		ug/L		88	70 - 130
alpha-Chlordane	<0.049		1.94	1.95		ug/L		101	70 - 130
Anthracene	<0.019		1.94	1.77		ug/L		92	70 - 130
Atrazine	<0.049		1.94	1.84		ug/L		95	70 - 130
Benz(a)anthracene	<0.049		1.94	1.84		ug/L		95	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.96		ug/L		101	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	1.89		ug/L		98	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	1.70		ug/L		88	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	1.88		ug/L		97	70 - 130
beta-BHC	<0.097		1.94	1.77		ug/L		91	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.73		ug/L		90	70 - 130
Bromacil	<0.097		1.94	1.49		ug/L		77	70 - 130

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-200152-L-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 210938

Prep Batch: 210481

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Butachlor	<0.049		1.94	1.91		ug/L		99	70 - 130
Butylbenzylphthalate	<0.49		1.94	1.87		ug/L		97	70 - 130
Chlorobenzilate	<0.097		1.94	1.74		ug/L		90	70 - 130
Chloroneb	<0.097		1.94	1.75		ug/L		91	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	1.74		ug/L		90	70 - 130
Chlorpyrifos	<0.049		1.94	1.85		ug/L		96	70 - 130
Chrysene	<0.019		1.94	1.92		ug/L		99	70 - 130
delta-BHC	<0.097		1.94	1.68		ug/L		87	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	1.90		ug/L		98	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.83		ug/L		95	70 - 130
Diclorvos (DDVP)	<0.049		1.94	1.78		ug/L		92	70 - 130
Dieldrin	<0.0097		1.94	1.47		ug/L		76	70 - 130
Diethylphthalate	<0.49		1.94	2.14		ug/L		106	70 - 130
Dimethylphthalate	<0.49		1.94	1.69		ug/L		87	70 - 130
Di-n-butyl phthalate	<0.97		3.87	3.48		ug/L		90	70 - 130
Di-n-octyl phthalate	<0.097		1.94	1.73		ug/L		89	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.66		ug/L		86	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.78		ug/L		92	70 - 130
Endosulfan sulfate	<0.097		1.94	1.63		ug/L		84	70 - 130
Endrin	<0.0097		1.94	1.68		ug/L		87	70 - 130
Endrin aldehyde	<0.097		1.94	1.53		ug/L		79	60 - 130
EPTC	<0.097		1.94	1.82		ug/L		94	70 - 130
Fluoranthene	<0.097		1.94	2.20		ug/L		114	70 - 130
Fluorene	<0.049		1.94	1.83		ug/L		95	70 - 130
gamma-Chlordane	<0.049		1.94	1.93		ug/L		100	70 - 130
Heptachlor	<0.0097		1.94	1.48		ug/L		77	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	1.80		ug/L		93	70 - 130
Hexachlorobenzene	<0.049		1.94	1.70		ug/L		88	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	1.59		ug/L		82	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	1.87		ug/L		97	70 - 130
Isophorone	<0.097		1.94	1.58		ug/L		81	70 - 130
Lindane	<0.0097		1.94	1.71		ug/L		88	70 - 130
Malathion	<0.097		1.94	1.96		ug/L		101	70 - 130
Methoxychlor	<0.049		1.94	2.05		ug/L		106	70 - 130
Metolachlor	<0.049		1.94	1.83		ug/L		95	70 - 130
Molinate	<0.097		1.94	1.77		ug/L		91	70 - 130
Naphthalene	<0.097		1.94	1.63		ug/L		84	70 - 130
Parathion	<0.097		1.94	1.89		ug/L		98	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	1.72		ug/L		89	70 - 130
Phenanthrene	<0.039		1.94	1.86		ug/L		96	70 - 130
Propachlor	<0.049		1.94	1.78		ug/L		92	70 - 130
Pyrene	<0.049		1.94	2.14		ug/L		110	70 - 130
Simazine	<0.049		1.94	1.82		ug/L		94	70 - 130
Terbacil	<0.097		1.94	1.66		ug/L		86	70 - 130
Terbutylazine	<0.097		1.94	1.93		ug/L		100	70 - 130
Thiobencarb	<0.097		1.94	1.87		ug/L		97	70 - 130
trans-Nonachlor	<0.049		1.94	2.11		ug/L		109	70 - 130
Trifluralin	<0.097	*-	1.94	1.35		ug/L		70	70 - 130

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-200152-L-1-A MS
Matrix: Water
Analysis Batch: 210938

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 210481

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	88		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-200156-1 DU
Matrix: Water
Analysis Batch: 210987

Client Sample ID: HALAWA SHAFT VIEWING POOL
Prep Type: Total/NA
Prep Batch: 210481

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
2,4'-DDD	<0.098		<0.097		ug/L		NC	20
2,4'-DDE	<0.098		<0.097		ug/L		NC	20
2,4'-DDT	<0.098		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.098		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.098		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	<0.0098		<0.0097		ug/L		NC	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-200156-1 DU

Matrix: Water

Analysis Batch: 210987

Client Sample ID: HALAWA SHAFT VIEWING POOL

Prep Type: Total/NA

Prep Batch: 210481

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.098		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.098		<0.097		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	105		70 - 130

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-702398/1-A
Matrix: Water
Analysis Batch: 702938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702398

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
2-Methylnaphthalene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Acenaphthene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Acenaphthylene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Anthracene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Benzo[a]anthracene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Benzo[a]pyrene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Chrysene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Fluoranthene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Fluorene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Naphthalene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Phenanthrene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1
Pyrene	<0.20		0.20	ug/L		02/27/26 17:44	03/02/26 08:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	114		28 - 127	02/27/26 17:44	03/02/26 08:54	1
2-Fluorobiphenyl (Surr)	95		31 - 120	02/27/26 17:44	03/02/26 08:54	1
2-Fluorophenol (Surr)	64		17 - 120	02/27/26 17:44	03/02/26 08:54	1
Nitrobenzene-d5 (Surr)	96		27 - 120	02/27/26 17:44	03/02/26 08:54	1
Phenol-d6 (Surr)	37		10 - 120	02/27/26 17:44	03/02/26 08:54	1
p-Terphenyl-d14 (Surr)	86		45 - 120	02/27/26 17:44	03/02/26 08:54	1

Lab Sample ID: LCS 570-702398/2-A
Matrix: Water
Analysis Batch: 702938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702398

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	17.0		ug/L		85	47 - 120
2-Methylnaphthalene	20.0	16.9		ug/L		85	43 - 120
Acenaphthene	20.0	20.4		ug/L		102	60 - 132
Acenaphthylene	20.0	14.6		ug/L		73	54 - 126
Anthracene	20.0	20.1		ug/L		100	43 - 120
Benzo[a]anthracene	20.0	21.9		ug/L		109	42 - 133
Benzo[a]pyrene	20.0	24.6		ug/L		123	32 - 148
Benzo[b]fluoranthene	20.0	23.4		ug/L		117	42 - 140
Benzo[g,h,i]perylene	20.0	21.8		ug/L		109	1 - 195
Benzo[k]fluoranthene	20.0	21.5		ug/L		107	25 - 146
Chrysene	20.0	21.1		ug/L		105	44 - 140
Dibenz(a,h)anthracene	20.0	22.3		ug/L		111	1 - 200
Fluoranthene	20.0	21.9		ug/L		110	43 - 121
Fluorene	20.0	21.8		ug/L		109	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	23.4		ug/L		117	1 - 151
Naphthalene	20.0	16.3		ug/L		82	36 - 120

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-702398/2-A

Matrix: Water

Analysis Batch: 702938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702398

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	21.3		ug/L		106	65 - 120
Pyrene	20.0	22.0		ug/L		110	70 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	109		28 - 127
2-Fluorobiphenyl (Surr)	99		31 - 120
2-Fluorophenol (Surr)	82		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	51		10 - 120
p-Terphenyl-d14 (Surr)	103		45 - 120

Lab Sample ID: LCSD 570-702398/3-A

Matrix: Water

Analysis Batch: 702938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 702398

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1-Methylnaphthalene	20.0	20.1		ug/L		101	47 - 120	17	20
2-Methylnaphthalene	20.0	20.2		ug/L		101	43 - 120	18	20
Acenaphthene	20.0	20.4		ug/L		102	60 - 132	0	29
Acenaphthylene	20.0	13.9		ug/L		70	54 - 126	4	45
Anthracene	20.0	20.8		ug/L		104	43 - 120	3	40
Benzo[a]anthracene	20.0	21.9		ug/L		110	42 - 133	0	32
Benzo[a]pyrene	20.0	24.2		ug/L		121	32 - 148	1	43
Benzo[b]fluoranthene	20.0	23.4		ug/L		117	42 - 140	0	43
Benzo[g,h,i]perylene	20.0	22.3		ug/L		111	1 - 195	2	61
Benzo[k]fluoranthene	20.0	21.4		ug/L		107	25 - 146	0	38
Chrysene	20.0	21.1		ug/L		106	44 - 140	0	53
Dibenz(a,h)anthracene	20.0	23.5		ug/L		118	1 - 200	6	75
Fluoranthene	20.0	22.4		ug/L		112	43 - 121	2	40
Fluorene	20.0	21.3		ug/L		106	70 - 120	3	23
Indeno[1,2,3-cd]pyrene	20.0	24.4		ug/L		122	1 - 151	4	60
Naphthalene	20.0	20.8		ug/L		104	36 - 120	24	39
Phenanthrene	20.0	21.7		ug/L		108	65 - 120	2	24
Pyrene	20.0	21.4		ug/L		107	70 - 120	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	109		28 - 127
2-Fluorobiphenyl (Surr)	96		31 - 120
2-Fluorophenol (Surr)	80		17 - 120
Nitrobenzene-d5 (Surr)	102		27 - 120
Phenol-d6 (Surr)	49		10 - 120
p-Terphenyl-d14 (Surr)	98		45 - 120

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-199926-A-1-A MS

Matrix: Water

Analysis Batch: 702938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 702398

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
1-Methylnaphthalene	<0.19		19.4	15.6		ug/L		80	36 - 120
2-Methylnaphthalene	<0.19		19.4	15.3		ug/L		79	32 - 124
Acenaphthene	<0.19		19.4	18.2		ug/L		94	47 - 145
Acenaphthylene	<0.19		19.4	12.8		ug/L		66	33 - 145
Anthracene	<0.19		19.4	18.5		ug/L		95	27 - 133
Benzo[a]anthracene	<0.19		19.4	19.8		ug/L		102	33 - 143
Benzo[a]pyrene	<0.19		19.4	21.8		ug/L		112	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	20.6		ug/L		106	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	19.6		ug/L		101	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	19.7		ug/L		101	11 - 162
Chrysene	<0.19		19.4	18.7		ug/L		96	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	20.6		ug/L		106	1 - 227
Fluoranthene	<0.19		19.4	19.7		ug/L		101	26 - 137
Fluorene	<0.19		19.4	19.3		ug/L		99	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	21.4		ug/L		110	1 - 171
Naphthalene	<0.19		19.4	15.0		ug/L		77	21 - 133
Phenanthrene	<0.19		19.4	19.3		ug/L		99	54 - 120
Pyrene	<0.19		19.4	19.6		ug/L		101	52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	101		28 - 127
2-Fluorobiphenyl (Surr)	93		31 - 120
2-Fluorophenol (Surr)	72		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	95		45 - 120

Lab Sample ID: 380-199926-C-1-A MSD

Matrix: Water

Analysis Batch: 702938

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 702398

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
1-Methylnaphthalene	<0.19		19.6	17.2		ug/L		88	36 - 120	10	30
2-Methylnaphthalene	<0.19		19.6	16.8		ug/L		86	32 - 124	10	30
Acenaphthene	<0.19		19.6	20.6		ug/L		105	47 - 145	12	48
Acenaphthylene	<0.19		19.6	14.5		ug/L		74	33 - 145	13	74
Anthracene	<0.19		19.6	20.7		ug/L		105	27 - 133	11	66
Benzo[a]anthracene	<0.19		19.6	21.9		ug/L		112	33 - 143	10	53
Benzo[a]pyrene	<0.19		19.6	24.1		ug/L		123	17 - 163	10	72
Benzo[b]fluoranthene	<0.19		19.6	22.7		ug/L		116	24 - 159	10	71
Benzo[g,h,i]perylene	<0.19		19.6	21.4		ug/L		109	1 - 219	9	97
Benzo[k]fluoranthene	<0.19		19.6	21.5		ug/L		110	11 - 162	9	63
Chrysene	<0.19		19.6	20.8		ug/L		106	17 - 168	11	87
Dibenz(a,h)anthracene	<0.19		19.6	22.3		ug/L		114	1 - 227	8	126
Fluoranthene	<0.19		19.6	22.0		ug/L		112	26 - 137	11	66
Fluorene	<0.19		19.6	21.8		ug/L		111	59 - 121	12	38
Indeno[1,2,3-cd]pyrene	<0.19		19.6	23.5		ug/L		120	1 - 171	9	99
Naphthalene	<0.19		19.6	16.5		ug/L		84	21 - 133	10	65

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QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-199926-C-1-A MSD

Matrix: Water

Analysis Batch: 702938

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 702398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.6	21.2		ug/L		108	54 - 120	10	39
Pyrene	<0.19		19.6	21.7		ug/L		111	52 - 120	10	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	110		28 - 127
2-Fluorobiphenyl (Surr)	100		31 - 120
2-Fluorophenol (Surr)	79		17 - 120
Nitrobenzene-d5 (Surr)	88		27 - 120
Phenol-d6 (Surr)	50		10 - 120
p-Terphenyl-d14 (Surr)	100		45 - 120

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

Lab Sample ID: MB 570-705930/5

Matrix: Water

Analysis Batch: 705930

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			03/07/26 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134		03/07/26 13:00	1

Lab Sample ID: LCS 570-705930/3

Matrix: Water

Analysis Batch: 705930

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	421		ug/L		105	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		38 - 134

Lab Sample ID: LCSD 570-705930/4

Matrix: Water

Analysis Batch: 705930

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	428		ug/L		107	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		38 - 134

QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-705930/6
Matrix: Water
Analysis Batch: 705930

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	<7.9		ug/L		68	50 - 150
Surrogate		MRL %Recovery	MRL Qualifier				Limits
4-Bromofluorobenzene (Surr)		84					38 - 134

Lab Sample ID: 380-200889-C-1 MS
Matrix: Water
Analysis Batch: 705930

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	381		ug/L		95	68 - 122
Surrogate		MS %Recovery		MS Qualifier					Limits
4-Bromofluorobenzene (Surr)		76							38 - 134

Lab Sample ID: 380-200889-C-1 MSD
Matrix: Water
Analysis Batch: 705930

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	369		ug/L		92	68 - 122	3	18
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
4-Bromofluorobenzene (Surr)		86							38 - 134		

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

Lab Sample ID: MB 570-702755/1-A
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702755

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/01/26 09:19	03/08/26 13:39	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/01/26 09:19	03/08/26 13:39	1
C8-C18	<25		25	ug/L		03/01/26 09:19	03/08/26 13:39	1
Surrogate		MB %Recovery				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		87				03/01/26 09:19	03/08/26 13:39	1

Lab Sample ID: LCS 570-702755/2-A
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1480		ug/L		93	56 - 127

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QC Sample Results

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-702755/2-A
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702755

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	94		60 - 130

Lab Sample ID: LCSD 570-702755/3-A
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 702755

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
C10-C28	1600	1530		ug/L		95	56 - 127	3	23	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	95		60 - 130

Lab Sample ID: MRL 570-702755/4-A
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702755

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
C10-C28	0.0200	0.0283		mg/L		141	50 - 150			

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	96		60 - 130

Lab Sample ID: 380-199926-A-1-C MSD
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 702755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits	RPD	Limit	
C10-C28	<26		1650	1520		ug/L		92	70 - 130	7	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	91		60 - 130

Lab Sample ID: 380-199926-B-1-A MS
Matrix: Water
Analysis Batch: 706124

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 702755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits	RPD	Limit	
C10-C28	<26		1660	1630		ug/L		99	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	91		60 - 130

QC Association Summary

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 210481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-210481/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-210481/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-210481/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-200152-L-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-200156-1 DU	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	

Analysis Batch: 210938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-210481/21-A	Method Blank	Total/NA	Water	525.2	210481
MRL 380-210481/22-A	Lab Control Sample	Total/NA	Water	525.2	210481
380-200152-L-1-A MS	Matrix Spike	Total/NA	Water	525.2	210481

Analysis Batch: 210987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	210481
LCS 380-210481/23-A	Lab Control Sample	Total/NA	Water	525.2	210481
380-200156-1 DU	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	210481

Prep Batch: 702398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-702398/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-702398/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-702398/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-199926-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-199926-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 702938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	702398
MB 570-702398/1-A	Method Blank	Total/NA	Water	625.1 SIM	702398
LCS 570-702398/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	702398
LCSD 570-702398/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	702398
380-199926-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	702398
380-199926-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	702398

Analysis Batch: 708251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	702398

GC VOA

Analysis Batch: 705930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-200156-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-705930/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-705930/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-705930/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-705930/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-200156-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA (Continued)

Analysis Batch: 705930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200889-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-200889-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 702755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-702755/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-702755/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-702755/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-702755/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-199926-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
380-199926-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 706124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-200156-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	702755
MB 570-702755/1-A	Method Blank	Total/NA	Water	8015B	702755
LCS 570-702755/2-A	Lab Control Sample	Total/NA	Water	8015B	702755
LCSD 570-702755/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	702755
MRL 570-702755/4-A	Lab Control Sample	Total/NA	Water	8015B	702755
380-199926-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	702755
380-199926-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	702755

Lab Chronicle

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

Job ID: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-1

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			210481	OTM3	EA POM	03/04/26 07:54
Total/NA	Analysis	525.2		1	210987	Q8LA	EA POM	03/05/26 16:12
Total/NA	Prep	625.1			702398	S4EA	EET CAL 4	02/27/26 17:45
Total/NA	Analysis	625.1		1	708251	PQS1	EET CAL 4	03/12/26 15:03
Total/NA	Prep	625.1			702398	S4EA	EET CAL 4	02/27/26 17:45
Total/NA	Analysis	625.1 SIM		1	702938	PQS1	EET CAL 4	03/02/26 12:33
Total/NA	Analysis	8015B GRO LL		1	705930	YD9V	EET CAL 4	03/07/26 17:53
Total/NA	Prep	3510C			702755	TVD6	EET CAL 4	03/01/26 09:19
Total/NA	Analysis	8015B		1	706124	H6FE	EET CAL 4	03/08/26 19:05

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-200156-2

Date Collected: 02/24/26 09:30

Matrix: Water

Date Received: 02/26/26 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	705930	YD9V	EET CAL 4	03/07/26 21:56

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: 380-200156-1
 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 the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	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	Terbutylazine
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	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

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

Accreditation/Certification Summary

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

Job ID: 380-200156-1
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	02-02-27
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	03-01-27
Washington	State	C916	10-12-26

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Method Summary

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

Job ID: 380-200156-1
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: 380-200156-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-200156-1	HALAWA SHAFT VIEWING POOL	Water	02/24/26 09:30	02/26/26 09:50	Hawaii
380-200156-2	TB: HALAWA SHAFT VIEWING POOL	Water	02/24/26 09:30	02/26/26 09:50	Hawaii

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Chain of Custody Record




Environment Testing

Client Information		Lab PM		Carrier Tracking No(s)		COC No:	
Kai Edison		Arada Rachelle		380-28005-2757 1		Page:	
+1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page 1 of 1	
City & County of Honolulu		PWSID:		Job #:		Preservation Codes:	
Due Date Requested		TAT Requested (days):		533 - All Analytes		R - NaHSO4	
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #: C20525101 exp 05312023		537 1_DW_PREC - 537 1 Full List		RA - NaThioHCl	
WO #:		Project #: 38001111		535.2_PREC (MOD) 526plus Plus TICs		Q - Na2SO3	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		SSOW#:		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		QA - Na2SO3/HCl	
Site: Hawaii		Field Filtered Sample (Yes or No)		8015B_GRO_LL (MOD) GRO		Y - Trizma	
Sample Date		Sample Time		825.1_825.1_SIM		I - NH4Acetate	
Sample Type (C=comp, G=grab)		Presentation Code:		Total Number of Containers		Other:	
24-Feb-2026		9:30 G		537 1_DW_PREC - 537 1 Full List		80-200156 COC	
24-Feb-2026		9:30 G		533 - All Analytes			
Halawa Shaft Viewing Pool		Water		537 1_DW_PREC - 537 1 Full List			
TB: Halawa Shaft Viewing Pool		Water		535.2_PREC (MOD) 526plus Plus TICs			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
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				533 - All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				535.2_PREC (MOD) 526plus Plus TICs			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL (MOD) GRO			
				825.1_825.1_SIM			
				533 - All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				535.2_PREC (MOD) 526plus Plus TICs			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL (MOD) GRO			
				825.1_825.1_SIM			
				533 - All Analytes			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-308823.1				
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Maria.Lopez@et.eurofins.us		State of Origin: Hawaii		Page: Page 1 of 1				
Company: Eurofins Environment Testing Southwest L				Accreditations Required (See note): State - Hawaii				Job #: 380-200156-1				
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A Project Name: RED-HILL Site: Honolulu BWS Sites		Due Date Requested: 3/11/2026 TAT Requested (days): N/A		Analysis Requested						Preservation Codes:		
		PO #: N/A		WO #: N/A		Project #: 38001111		SSOW#: N/A		Other: N/A		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, Anal)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	801BB_DRO_LL_CS/3510C_ILHNL Ranges: C10-C24/C24-C36/C8-C18	801BB_GRO_LL/6030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	Total Number of Containers	Special Instructions/Note:
				Preservation Code:								
HALAWA SHAFT VIEWING POOL (380-200156-1)		2/24/26	09:30 Hawaiian	G	Water		X	X	X		6	MRLs are needed. Confirm any hits >RL.
TB: HALAWA SHAFT VIEWING POOL (380-200156-2)		2/24/26	09:30 Hawaiian	G	Water			X			2	MRLs are needed. Confirm any hits >RL.
 380-200156 Chain of Custody												
Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater West, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater West, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater West, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater West, LLC.												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:						
Relinquished by: <i>Mark W...</i>		Date/Time: 2/26/26 1500		Company: FEAP		Received by: <i>AB</i>		Date/Time: 2-26-26 1505		Company: Way		
Relinquished by: <i>Bob</i>		Date/Time: 2-26-26 1632		Company: Way		Received by: <i>W</i>		Date/Time: 2/26/26 1632		Company: EC		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 2.0/1.8 FRT						

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-200156-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 200156

List Number: 1

Creator: Edrosa, Rey

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").	True	
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: 380-200156-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 200156
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 02/26/26 06:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ 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	1.8
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 <6mm (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	