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# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

Generated 1/7/2026 11:55:56 AM

## JOB DESCRIPTION

RED-HILL  
Weekly: Halawa Shaft Viewing Pool

## JOB NUMBER

380-188577-1

# Eurofins Pomona

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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: 380-188577-1  
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 Semi VOA

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

## Glossary

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

# Case Narrative

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

Job ID: 380-188577-1

**Job ID: 380-188577-1**

**Eurofins Pomona**

## Job Narrative 380-188577-1

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 12/18/2025 10:12 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 1.4°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

Method 8015B\_DRO\_LL\_CS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-673862. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method: 3510C\_LL\_CS

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: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-1**

No Detections.

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**Client Sample ID: TB: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-1**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

**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		12/19/25 08:19	12/23/25 15:26	1
2,4'-DDD	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
2,4'-DDE	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
2,4'-DDT	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
2-Methylnaphthalene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
4,4'-DDD	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
4,4'-DDE	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
4,4'-DDT	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Acenaphthene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Acenaphthylene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Acetochlor	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Alachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
alpha-BHC	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
alpha-Chlordane	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Anthracene	<0.019		0.019	ug/L		12/19/25 08:19	12/23/25 15:26	1
Atrazine	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Benzo[a]pyrene	<0.019		0.019	ug/L		12/19/25 08:19	12/23/25 15:26	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		12/19/25 08:19	12/23/25 15:26	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		12/19/25 08:19	12/23/25 15:26	1
beta-BHC	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		12/19/25 08:19	12/23/25 15:26	1
Bromacil	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Butachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/19/25 08:19	12/23/25 15:26	1
Chlorobenzilate	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Chloroneb	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Chlorpyrifos	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Chrysene	<0.019		0.019	ug/L		12/19/25 08:19	12/23/25 15:26	1
delta-BHC	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		12/19/25 08:19	12/23/25 15:26	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Dieldrin	<0.0097		0.0097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Diethylphthalate	<0.49		0.49	ug/L		12/19/25 08:19	12/23/25 15:26	1
Dimethylphthalate	<0.49		0.49	ug/L		12/19/25 08:19	12/23/25 15:26	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		12/19/25 08:19	12/23/25 15:26	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Endosulfan sulfate	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Endrin	<0.0097		0.0097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Endrin aldehyde	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
EPTC	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Fluoranthene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1

# Client Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-1**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

**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		12/19/25 08:19	12/23/25 15:26	1
gamma-Chlordane	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Heptachlor	<0.0097		0.0097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Isophorone	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Lindane	<0.0097		0.0097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Malathion	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Methoxychlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Metolachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Molinate	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Naphthalene	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Parathion	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Phenanthrene	<0.039		0.039	ug/L		12/19/25 08:19	12/23/25 15:26	1
Propachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Pyrene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Simazine	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Terbacil	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Terbutylazine	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Thiobencarb	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		12/19/25 08:19	12/23/25 15:26	1
trans-Nonachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 15:26	1
Trifluralin	<0.097		0.097	ug/L		12/19/25 08:19	12/23/25 15:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/19/25 08:19	12/23/25 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	12/19/25 08:19	12/23/25 15:26	1
Perylene-d12	97		70 - 130	12/19/25 08:19	12/23/25 15:26	1
Triphenylphosphate	104		70 - 130	12/19/25 08:19	12/23/25 15:26	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		12/22/25 10:50	12/26/25 16:51	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Acenaphthene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Acenaphthylene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Anthracene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Chrysene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Fluoranthene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1

# Client Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-1**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

**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		12/22/25 10:50	12/26/25 16:51	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Naphthalene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Phenanthrene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1
Pyrene	<0.19		0.19	ug/L		12/22/25 10:50	12/26/25 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	12/22/25 10:50	12/26/25 16:51	1
2-Fluorobiphenyl (Surr)	79		31 - 120	12/22/25 10:50	12/26/25 16:51	1
2-Fluorophenol (Surr)	46		17 - 120	12/22/25 10:50	12/26/25 16:51	1
Nitrobenzene-d5 (Surr)	76		27 - 120	12/22/25 10:50	12/26/25 16:51	1
Phenol-d6 (Surr)	28		10 - 120	12/22/25 10:50	12/26/25 16:51	1
p-Terphenyl-d14 (Surr)	78		45 - 120	12/22/25 10:50	12/26/25 16:51	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	12/22/25 10:50	12/29/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		33 - 139	12/22/25 10:50	12/29/25 12:27	1
2-Fluorobiphenyl (Surr)	83		33 - 126	12/22/25 10:50	12/29/25 12:27	1
2-Fluorophenol (Surr)	48		12 - 120	12/22/25 10:50	12/29/25 12:27	1
Nitrobenzene-d5 (Surr)	97		36 - 120	12/22/25 10:50	12/29/25 12:27	1
Phenol-d6 (Surr)	25		10 - 120	12/22/25 10:50	12/29/25 12:27	1
p-Terphenyl-d14 (Surr)	84		47 - 131	12/22/25 10:50	12/29/25 12:27	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			12/28/25 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134		12/28/25 16:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		12/22/25 09:41	01/06/26 21:08	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		12/22/25 09:41	01/06/26 21:08	1
C8-C18	<26		26	ug/L		12/22/25 09:41	01/06/26 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	120		60 - 130	12/22/25 09:41	01/06/26 21:08	1

**Client Sample ID: TB: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-2**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

**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			12/28/25 13:52	1

# Client Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: TB: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-2**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

<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)	103		38 - 134		12/28/25 13:52	1

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

# Action Limit Summary

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

Job ID: 380-188577-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-1**

## 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	<0.019		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	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	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: 380-188577-1  
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)
380-188577-1	HALAWA SHAFT VIEWING POOL	97	97	104
380-188682-B-2-A MS	Matrix Spike	98	100	107
380-188682-C-2-A MSD	Matrix Spike Duplicate	97	101	110
LCS 380-193565/23-A	Lab Control Sample	97	94	106
LCSD 380-193565/24-A	Lab Control Sample Dup	97	99	110
MB 380-193565/21-A	Method Blank	95	79	104
MRL 380-193565/22-A	Lab Control Sample	96	85	105

**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)
380-188577-1	HALAWA SHAFT VIEWING POOL	72	83	48	97	25	84
MB 570-673944/1-A	Method Blank	73	80	56	92	30	84

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

## Method: 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)
380-188577-1	HALAWA SHAFT VIEWING POOL	81	79	46	76	28	78
LCS 570-673944/2-A	Lab Control Sample	88	91	60	76	39	95
LCSD 570-673944/3-A	Lab Control Sample Dup	79	77	53	67	35	83
MB 570-673944/1-A	Method Blank	81	76	46	77	29	78

**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: 380-188577-1  
 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)
380-188577-1	HALAWA SHAFT VIEWING POOL	100
380-188577-2	TB: HALAWA SHAFT VIEWING POOL	103
380-189454-B-1 MS	Matrix Spike	101
380-189454-B-1 MSD	Matrix Spike Duplicate	101
LCS 570-675935/4	Lab Control Sample	100
LCSD 570 675935/5	Lab Control Sample Dup	105
MB 570-675935/6	Method Blank	101
MRL 570-675935/3	Lab Control Sample	93
<b>Surrogate Legend</b>		
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)
380-188577-1 - RA	HALAWA SHAFT VIEWING POOL	120
LCS 570-673862/2-A	Lab Control Sample	103
LCSD 570-673862/3-A	Lab Control Sample Dup	115
MB 570-673862/1-A	Method Blank	122
MRL 570-671434/4-A	Lab Control Sample	111
MRL 570-673862/4-A	Lab Control Sample	106
<b>Surrogate Legend</b>		
OTCSN = n-Octacosane (Surr)		

# QC Sample Results

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

Job ID: 380-188577-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 380-193565/21-A**  
**Matrix: Water**  
**Analysis Batch: 194198**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193565**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
2,4'-DDD	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
2,4'-DDE	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
2,4'-DDT	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
2-Methylnaphthalene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
4,4'-DDD	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
4,4'-DDE	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
4,4'-DDT	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Acenaphthene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Acenaphthylene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Acetochlor	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Alachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
alpha-BHC	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
alpha-Chlordane	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Anthracene	<0.020		0.020	ug/L		12/19/25 08:19	12/23/25 09:44	1
Atrazine	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/19/25 08:19	12/23/25 09:44	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/19/25 08:19	12/23/25 09:44	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/19/25 08:19	12/23/25 09:44	1
beta-BHC	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/19/25 08:19	12/23/25 09:44	1
Bromacil	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Butachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/19/25 08:19	12/23/25 09:44	1
Chlorobenzilate	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Chloroneb	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Chlorpyrifos	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Chrysene	<0.020		0.020	ug/L		12/19/25 08:19	12/23/25 09:44	1
delta-BHC	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/19/25 08:19	12/23/25 09:44	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Dieldrin	<0.0099		0.0099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Diethylphthalate	<0.49		0.49	ug/L		12/19/25 08:19	12/23/25 09:44	1
Dimethylphthalate	<0.49		0.49	ug/L		12/19/25 08:19	12/23/25 09:44	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		12/19/25 08:19	12/23/25 09:44	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Endosulfan sulfate	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Endrin	<0.0099		0.0099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Endrin aldehyde	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
EPTC	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 380-193565/21-A**  
**Matrix: Water**  
**Analysis Batch: 194198**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193565**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Fluorene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
gamma-Chlordane	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Heptachlor	<0.0099		0.0099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Isophorone	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Lindane	<0.0099		0.0099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Malathion	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Methoxychlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Metolachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Molinate	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Naphthalene	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Parathion	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Phenanthrene	<0.040		0.040	ug/L		12/19/25 08:19	12/23/25 09:44	1
Propachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Pyrene	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Simazine	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Terbacil	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Terbutylazine	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Thiobencarb	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/19/25 08:19	12/23/25 09:44	1
trans-Nonachlor	<0.049		0.049	ug/L		12/19/25 08:19	12/23/25 09:44	1
Trifluralin	<0.099		0.099	ug/L		12/19/25 08:19	12/23/25 09:44	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,3,4-pentamethyl-	1.13	T J N	ug/L		2.56	197390-29-7	12/19/25 08:19	12/23/25 09:44	1
Undecane	2.47	T J N	ug/L		3.15	1120-21-4	12/19/25 08:19	12/23/25 09:44	1
Unknown	0.586	T J	ug/L		3.90	N/A	12/19/25 08:19	12/23/25 09:44	1
9-Octadecenamamide, (Z)-	3.59	T J N	ug/L		7.98	301-02-0	12/19/25 08:19	12/23/25 09:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	95		70 - 130	12/19/25 08:19	12/23/25 09:44	1
Perylene-d12	79		70 - 130	12/19/25 08:19	12/23/25 09:44	1
Triphenylphosphate	104		70 - 130	12/19/25 08:19	12/23/25 09:44	1

**Lab Sample ID: LCS 380-193565/23-A**  
**Matrix: Water**  
**Analysis Batch: 194198**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193565**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.99	2.02		ug/L		101	70 - 130
2,4'-DDD	1.99	1.91		ug/L		96	70 - 130
2,4'-DDE	1.99	2.07		ug/L		104	70 - 130
2,4'-DDT	1.99	1.95		ug/L		98	70 - 130

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# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-193565/23-A

Matrix: Water

Analysis Batch: 194198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193565

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4-Dinitrotoluene	1.99	1.89		ug/L		95	70 - 130
2,6-Dinitrotoluene	1.99	1.81		ug/L		91	70 - 130
2-Methylnaphthalene	1.99	2.01		ug/L		101	70 - 130
4,4'-DDD	1.99	1.94		ug/L		97	70 - 130
4,4'-DDE	1.99	2.03		ug/L		102	70 - 130
4,4'-DDT	1.99	1.96		ug/L		98	70 - 130
Acenaphthene	1.99	2.03		ug/L		102	70 - 130
Acenaphthylene	1.99	2.13		ug/L		107	70 - 130
Acetochlor	1.99	2.04		ug/L		102	70 - 130
Alachlor	1.99	2.12		ug/L		106	70 - 130
alpha-BHC	1.99	2.17		ug/L		109	70 - 130
alpha-Chlordane	1.99	1.84		ug/L		92	70 - 130
Anthracene	1.99	1.96		ug/L		98	70 - 130
Atrazine	1.99	2.05		ug/L		103	70 - 130
Benz(a)anthracene	1.99	1.93		ug/L		97	70 - 130
Benzo[a]pyrene	1.99	1.90		ug/L		96	70 - 130
Benzo[b]fluoranthene	1.99	1.99		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.99	1.95		ug/L		98	70 - 130
Benzo[k]fluoranthene	1.99	1.75		ug/L		88	70 - 130
beta-BHC	1.99	2.17		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.01		ug/L		101	70 - 130
Bromacil	1.99	1.89		ug/L		95	70 - 130
Butachlor	1.99	2.20		ug/L		110	70 - 130
Butylbenzylphthalate	1.99	2.16		ug/L		109	70 - 130
Chlorobenzilate	1.99	2.04		ug/L		102	70 - 130
Chloroneb	1.99	2.15		ug/L		108	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.09		ug/L		105	70 - 130
Chlorpyrifos	1.99	1.89		ug/L		95	70 - 130
Chrysene	1.99	1.71		ug/L		86	70 - 130
delta-BHC	1.99	2.17		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.25		ug/L		113	70 - 130
Dibenz(a,h)anthracene	1.99	2.04		ug/L		102	70 - 130
Diclorvos (DDVP)	1.99	2.16		ug/L		109	70 - 130
Dieldrin	1.99	1.94		ug/L		97	70 - 130
Diethylphthalate	1.99	2.20		ug/L		111	70 - 130
Dimethylphthalate	1.99	2.24		ug/L		112	70 - 130
Di-n-butyl phthalate	3.99	4.08		ug/L		102	70 - 130
Di-n-octyl phthalate	1.99	1.94		ug/L		97	70 - 130
Endosulfan I (Alpha)	1.99	1.92		ug/L		96	70 - 130
Endosulfan II (Beta)	1.99	2.11		ug/L		106	70 - 130
Endosulfan sulfate	1.99	1.97		ug/L		99	70 - 130
Endrin	1.99	2.01		ug/L		101	70 - 130
Endrin aldehyde	1.99	2.01		ug/L		101	60 - 130
EPTC	1.99	2.35		ug/L		118	70 - 130
Fluoranthene	1.99	2.19		ug/L		110	70 - 130
Fluorene	1.99	2.19		ug/L		110	70 - 130
gamma-Chlordane	1.99	1.87		ug/L		94	70 - 130
Heptachlor	1.99	2.08		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.01		ug/L		101	70 - 130

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# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-193565/23-A

Matrix: Water

Analysis Batch: 194198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193565

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hexachlorobenzene	1.99	2.23		ug/L		112	70 - 130
Hexachlorocyclopentadiene	1.99	1.84		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.08		ug/L		104	70 - 130
Isophorone	1.99	2.00		ug/L		100	70 - 130
Lindane	1.99	2.11		ug/L		106	70 - 130
Malathion	1.99	2.10		ug/L		105	70 - 130
Methoxychlor	1.99	2.06		ug/L		103	70 - 130
Metolachlor	1.99	2.14		ug/L		107	70 - 130
Molinate	1.99	2.20		ug/L		110	70 - 130
Naphthalene	1.99	2.00		ug/L		100	70 - 130
Parathion	1.99	2.05		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	1.99	1.87		ug/L		94	70 - 130
Phenanthrene	1.99	2.06		ug/L		104	70 - 130
Propachlor	1.99	2.14		ug/L		107	70 - 130
Pyrene	1.99	1.97		ug/L		99	70 - 130
Simazine	1.99	2.01		ug/L		101	70 - 130
Terbacil	1.99	1.94		ug/L		97	70 - 130
Terbutylazine	1.99	2.25		ug/L		113	70 - 130
Thiobencarb	1.99	2.06		ug/L		103	70 - 130
trans-Nonachlor	1.99	1.83		ug/L		92	70 - 130
Trifluralin	1.99	1.85		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: LCSD 380-193565/24-A

Matrix: Water

Analysis Batch: 194198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 193565

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	1.98	1.97		ug/L		99	70 - 130	2	20
2,4'-DDD	1.98	1.94		ug/L		98	70 - 130	2	20
2,4'-DDE	1.98	2.06		ug/L		104	70 - 130	0	20
2,4'-DDT	1.98	2.00		ug/L		101	70 - 130	3	20
2,4-Dinitrotoluene	1.98	1.98		ug/L		100	70 - 130	4	20
2,6-Dinitrotoluene	1.98	1.78		ug/L		90	70 - 130	2	20
2-Methylnaphthalene	1.98	1.97		ug/L		99	70 - 130	2	20
4,4'-DDD	1.98	1.97		ug/L		99	70 - 130	2	20
4,4'-DDE	1.98	2.02		ug/L		102	70 - 130	0	20
4,4'-DDT	1.98	2.01		ug/L		101	70 - 130	3	20
Acenaphthene	1.98	2.00		ug/L		101	70 - 130	2	20
Acenaphthylene	1.98	2.17		ug/L		110	70 - 130	2	20
Acetochlor	1.98	2.12		ug/L		107	70 - 130	4	20
Alachlor	1.98	2.18		ug/L		110	70 - 130	3	20
alpha-BHC	1.98	2.24		ug/L		113	70 - 130	3	20
alpha-Chlordane	1.98	1.91		ug/L		97	70 - 130	4	20

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# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-193565/24-A

Matrix: Water

Analysis Batch: 194198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 193565

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Anthracene	1.98	1.98		ug/L		100	70 - 130	1	20
Atrazine	1.98	2.05		ug/L		104	70 - 130	0	20
Benz(a)anthracene	1.98	1.99		ug/L		100	70 - 130	3	20
Benzo[a]pyrene	1.98	1.95		ug/L		98	70 - 130	2	20
Benzo[b]fluoranthene	1.98	1.93		ug/L		97	70 - 130	3	20
Benzo[g,h,i]perylene	1.98	1.93		ug/L		97	70 - 130	1	20
Benzo[k]fluoranthene	1.98	1.76		ug/L		89	70 - 130	0	20
beta-BHC	1.98	2.24		ug/L		113	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.98	1.75		ug/L		88	70 - 130	13	20
Bromacil	1.98	1.74		ug/L		88	70 - 130	8	20
Butachlor	1.98	2.30		ug/L		116	70 - 130	5	20
Butylbenzylphthalate	1.98	2.21		ug/L		111	70 - 130	2	20
Chlorobenzilate	1.98	2.09		ug/L		105	70 - 130	2	20
Chloroneb	1.98	2.18		ug/L		110	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.98	2.22		ug/L		112	70 - 130	6	20
Chlorpyrifos	1.98	1.86		ug/L		94	70 - 130	1	20
Chrysene	1.98	1.69		ug/L		85	70 - 130	1	20
delta-BHC	1.98	2.28		ug/L		115	70 - 130	5	20
Di(2-ethylhexyl)adipate	1.98	2.13		ug/L		108	70 - 130	6	20
Dibenz(a,h)anthracene	1.98	1.94		ug/L		98	70 - 130	5	20
Diclorvos (DDVP)	1.98	2.01		ug/L		102	70 - 130	7	20
Dieldrin	1.98	2.01		ug/L		101	70 - 130	4	20
Diethylphthalate	1.98	2.24		ug/L		113	70 - 130	2	20
Dimethylphthalate	1.98	2.18		ug/L		110	70 - 130	3	20
Di-n-butyl phthalate	3.97	4.32		ug/L		109	70 - 130	6	20
Di-n-octyl phthalate	1.98	1.67		ug/L		84	70 - 130	15	20
Endosulfan I (Alpha)	1.98	1.99		ug/L		100	70 - 130	4	20
Endosulfan II (Beta)	1.98	2.26		ug/L		114	70 - 130	7	20
Endosulfan sulfate	1.98	2.09		ug/L		105	70 - 130	6	20
Endrin	1.98	2.10		ug/L		106	70 - 130	4	20
Endrin aldehyde	1.98	2.00		ug/L		101	60 - 130	1	20
EPTC	1.98	2.35		ug/L		119	70 - 130	0	20
Fluoranthene	1.98	2.20		ug/L		111	70 - 130	0	20
Fluorene	1.98	2.16		ug/L		109	70 - 130	2	20
gamma-Chlordane	1.98	1.92		ug/L		97	70 - 130	3	20
Heptachlor	1.98	2.15		ug/L		108	70 - 130	3	20
Heptachlor epoxide (isomer B)	1.98	2.07		ug/L		104	70 - 130	3	20
Hexachlorobenzene	1.98	2.16		ug/L		109	70 - 130	3	20
Hexachlorocyclopentadiene	1.98	1.92		ug/L		97	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	1.98	2.14		ug/L		108	70 - 130	3	20
Isophorone	1.98	1.93		ug/L		97	70 - 130	4	20
Lindane	1.98	2.20		ug/L		111	70 - 130	4	20
Malathion	1.98	2.18		ug/L		110	70 - 130	4	20
Methoxychlor	1.98	2.15		ug/L		108	70 - 130	4	20
Metolachlor	1.98	2.22		ug/L		112	70 - 130	4	20
Molinate	1.98	2.19		ug/L		110	70 - 130	1	20
Naphthalene	1.98	1.93		ug/L		98	70 - 130	3	20
Parathion	1.98	2.30		ug/L		116	70 - 130	12	20
Pendimethalin (Penoxaline)	1.98	2.12		ug/L		107	70 - 130	12	20

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# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCSD 380-193565/24-A**

**Matrix: Water**

**Analysis Batch: 194198**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 193565**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Phenanthrene	1.98	2.08		ug/L		105	70 - 130	1	20
Propachlor	1.98	2.18		ug/L		110	70 - 130	2	20
Pyrene	1.98	2.03		ug/L		102	70 - 130	3	20
Simazine	1.98	1.91		ug/L		96	70 - 130	5	20
Terbacil	1.98	1.80		ug/L		91	70 - 130	7	20
Terbutylazine	1.98	2.31		ug/L		116	70 - 130	2	20
Thiobencarb	1.98	2.13		ug/L		107	70 - 130	3	20
trans-Nonachlor	1.98	1.92		ug/L		97	70 - 130	4	20
Trifluralin	1.98	2.10		ug/L		106	70 - 130	13	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	110		70 - 130

**Lab Sample ID: MRL 380-193565/22-A**

**Matrix: Water**

**Analysis Batch: 194198**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193565**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
1-Methylnaphthalene	0.0985	0.111		ug/L		113	50 - 150
2,4'-DDD	0.0985	0.0931	J	ug/L		95	50 - 150
2,4'-DDE	0.0985	0.101		ug/L		103	50 - 150
2,4'-DDT	0.0985	0.119		ug/L		121	50 - 150
2,4-Dinitrotoluene	0.0985	0.114		ug/L		116	50 - 150
2,6-Dinitrotoluene	0.0985	0.123		ug/L		125	50 - 150
2-Methylnaphthalene	0.0985	0.105		ug/L		106	50 - 150
4,4'-DDD	0.0985	0.119		ug/L		121	50 - 150
4,4'-DDE	0.0985	0.100		ug/L		102	50 - 150
4,4'-DDT	0.0985	0.131		ug/L		133	50 - 150
Acenaphthene	0.0985	0.0986		ug/L		100	50 - 150
Acenaphthylene	0.0985	0.0957	J	ug/L		97	50 - 150
Acetochlor	0.0985	0.115		ug/L		117	50 - 150
Alachlor	0.0492	0.0573		ug/L		116	50 - 150
alpha-BHC	0.0985	0.102		ug/L		103	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		116	50 - 150
Anthracene	0.0197	<0.019		ug/L		96	50 - 150
Atrazine	0.0492	0.0628		ug/L		127	50 - 150
Benz(a)anthracene	0.0492	0.0576		ug/L		117	50 - 150
Benzo[a]pyrene	0.0197	0.0221		ug/L		112	50 - 150
Benzo[b]fluoranthene	0.0197	0.0233		ug/L		118	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0509		ug/L		103	50 - 150
Benzo[k]fluoranthene	0.0197	0.0216		ug/L		110	50 - 150
beta-BHC	0.0985	0.121		ug/L		123	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.662		ug/L		112	50 - 150
Bromacil	0.0985	0.118		ug/L		120	50 - 150
Butachlor	0.0492	0.0622		ug/L		126	50 - 150
Butylbenzylphthalate	0.492	0.566		ug/L		115	50 - 150

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# QC Sample Results

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

Job ID: 380-188577-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-193565/22-A

Matrix: Water

Analysis Batch: 194198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193565

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Chlorobenzilate	0.0985	0.103		ug/L		104	50 - 150
Chloroneb	0.0985	0.112		ug/L		113	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.140		ug/L		142	50 - 150
Chlorpyrifos	0.0492	0.0533		ug/L		108	50 - 150
Chrysene	0.0197	0.0200		ug/L		102	50 - 150
delta-BHC	0.0985	0.108		ug/L		110	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.749		ug/L		127	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0479	J	ug/L		97	50 - 150
Diclorvos (DDVP)	0.0492	0.0545		ug/L		111	50 - 150
Dieldrin	0.00985	0.0120		ug/L		122	50 - 150
Diethylphthalate	0.492	0.552		ug/L		112	50 - 150
Dimethylphthalate	0.492	0.513		ug/L		104	50 - 150
Di-n-butyl phthalate	0.492	0.532	J	ug/L		108	49 - 243
Di-n-octyl phthalate	0.0985	0.104		ug/L		106	50 - 150
Endosulfan I (Alpha)	0.0985	0.0938	J	ug/L		95	50 - 150
Endosulfan II (Beta)	0.0985	0.0941	J	ug/L		96	50 - 150
Endosulfan sulfate	0.0985	0.113		ug/L		115	50 - 150
Endrin	0.00985	0.0123		ug/L		125	50 - 150
Endrin aldehyde	0.0985	0.113		ug/L		115	50 - 150
EPTC	0.0985	0.105		ug/L		106	50 - 150
Fluoranthene	0.0985	0.0978	J	ug/L		99	50 - 150
Fluorene	0.0492	0.0498		ug/L		101	50 - 150
gamma-Chlordane	0.0246	0.0276	J	ug/L		112	50 - 150
Heptachlor	0.00985	0.0110		ug/L		112	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.0133		ug/L		135	50 - 150
Hexachlorobenzene	0.0492	0.0423	J	ug/L		86	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0444	J	ug/L		90	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0527		ug/L		107	50 - 150
Isophorone	0.0985	0.112		ug/L		114	50 - 150
Lindane	0.00985	0.0112		ug/L		114	50 - 150
Malathion	0.0985	0.101		ug/L		103	50 - 150
Methoxychlor	0.0492	0.0606		ug/L		123	50 - 150
Metolachlor	0.0492	0.0566		ug/L		115	50 - 150
Molinate	0.0985	0.128		ug/L		130	50 - 150
Naphthalene	0.0985	0.101		ug/L		102	50 - 150
Parathion	0.0985	0.0990		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.0983		ug/L		100	50 - 150
Phenanthrene	0.0394	0.0427		ug/L		108	50 - 150
Propachlor	0.0492	0.0562		ug/L		114	50 - 150
Pyrene	0.0492	0.0550		ug/L		112	50 - 150
Simazine	0.0492	0.0552		ug/L		112	50 - 150
Terbacil	0.0985	0.105		ug/L		107	50 - 150
Terbutylazine	0.0985	0.111		ug/L		113	50 - 150
Thiobencarb	0.0985	0.119		ug/L		121	50 - 150
trans-Nonachlor	0.0246	0.0265	J	ug/L		108	50 - 150
Trifluralin	0.0985	0.101		ug/L		103	50 - 150

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MRL 380-193565/22-A**  
**Matrix: Water**  
**Analysis Batch: 194198**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193565**

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-188682-B-2-A MS**  
**Matrix: Water**  
**Analysis Batch: 194198**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 193565**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.93	1.97		ug/L		102	70 - 130
2,4'-DDD	<0.096		1.93	1.82		ug/L		94	70 - 130
2,4'-DDE	<0.096		1.93	1.97		ug/L		102	70 - 130
2,4'-DDT	<0.096		1.93	1.86		ug/L		96	70 - 130
2,4-Dinitrotoluene	<0.096		1.93	2.02		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.096		1.93	1.83		ug/L		95	70 - 130
2-Methylnaphthalene	<0.096		1.93	1.97		ug/L		102	70 - 130
4,4'-DDD	<0.096		1.93	1.87		ug/L		97	70 - 130
4,4'-DDE	<0.096		1.93	1.89		ug/L		98	70 - 130
4,4'-DDT	<0.096		1.93	1.85		ug/L		96	70 - 130
Acenaphthene	<0.096		1.93	1.97		ug/L		102	70 - 130
Acenaphthylene	<0.096		1.93	2.12		ug/L		110	70 - 130
Acetochlor	<0.096		1.93	2.03		ug/L		105	70 - 130
Alachlor	<0.048		1.93	2.09		ug/L		108	70 - 130
alpha-BHC	<0.096		1.93	2.13		ug/L		110	70 - 130
alpha-Chlordane	<0.048		1.93	1.80		ug/L		93	70 - 130
Anthracene	<0.019		1.93	1.78		ug/L		92	70 - 130
Atrazine	<0.048		1.93	1.97		ug/L		102	70 - 130
Benz(a)anthracene	<0.048		1.93	1.87		ug/L		97	70 - 130
Benzo[a]pyrene	<0.019		1.93	1.89		ug/L		98	70 - 130
Benzo[b]fluoranthene	<0.019		1.93	1.94		ug/L		101	70 - 130
Benzo[g,h,i]perylene	<0.048		1.93	1.92		ug/L		100	70 - 130
Benzo[k]fluoranthene	<0.019		1.93	1.71		ug/L		89	70 - 130
beta-BHC	<0.096		1.93	2.11		ug/L		110	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.93	1.79		ug/L		93	70 - 130
Bromacil	<0.096		1.93	1.80		ug/L		94	70 - 130
Butachlor	<0.048		1.93	2.19		ug/L		114	70 - 130
Butylbenzylphthalate	<0.48		1.93	2.09		ug/L		109	70 - 130
Chlorobenzilate	<0.096		1.93	2.03		ug/L		105	70 - 130
Chloroneb	<0.096		1.93	2.10		ug/L		109	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.93	2.08		ug/L		108	70 - 130
Chlorpyrifos	<0.048		1.93	1.79		ug/L		93	70 - 130
Chrysene	<0.019		1.93	1.69		ug/L		88	70 - 130
delta-BHC	<0.096		1.93	2.14		ug/L		111	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.93	2.03		ug/L		105	70 - 130
Dibenz(a,h)anthracene	<0.048		1.93	1.89		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.048		1.93	2.06		ug/L		107	70 - 130
Dieldrin	<0.0096		1.93	1.94		ug/L		101	70 - 130
Diethylphthalate	<0.48		1.93	2.12		ug/L		110	70 - 130

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-188682-B-2-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 194198**

**Prep Batch: 193565**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Dimethylphthalate	<0.48		1.93	2.14		ug/L		111	70 - 130
Di-n-butyl phthalate	<0.96		3.86	4.02		ug/L		104	70 - 130
Di-n-octyl phthalate	<0.096		1.93	1.69		ug/L		88	70 - 130
Endosulfan I (Alpha)	<0.096		1.93	1.91		ug/L		99	70 - 130
Endosulfan II (Beta)	<0.096		1.93	2.12		ug/L		110	70 - 130
Endosulfan sulfate	<0.096		1.93	1.96		ug/L		101	70 - 130
Endrin	<0.0096		1.93	1.98		ug/L		103	70 - 130
Endrin aldehyde	<0.096		1.93	1.59		ug/L		82	60 - 130
EPTC	<0.096		1.93	2.30		ug/L		119	70 - 130
Fluoranthene	<0.096		1.93	2.11		ug/L		109	70 - 130
Fluorene	<0.048		1.93	2.12		ug/L		110	70 - 130
gamma-Chlordane	<0.048		1.93	1.83		ug/L		95	70 - 130
Heptachlor	<0.0096		1.93	2.06		ug/L		107	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.93	1.96		ug/L		102	70 - 130
Hexachlorobenzene	<0.048		1.93	2.16		ug/L		112	70 - 130
Hexachlorocyclopentadiene	<0.048		1.93	1.83		ug/L		95	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.93	2.13		ug/L		111	70 - 130
Isophorone	<0.096		1.93	1.95		ug/L		101	70 - 130
Lindane	<0.0096		1.93	2.08		ug/L		108	70 - 130
Malathion	<0.096		1.93	2.06		ug/L		107	70 - 130
Methoxychlor	<0.048		1.93	2.09		ug/L		108	70 - 130
Metolachlor	<0.048		1.93	2.11		ug/L		109	70 - 130
Molinate	<0.096		1.93	2.13		ug/L		111	70 - 130
Naphthalene	<0.096		1.93	1.95		ug/L		101	70 - 130
Parathion	<0.096		1.93	2.13		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.93	2.00		ug/L		104	70 - 130
Phenanthrene	<0.039		1.93	1.99		ug/L		103	70 - 130
Propachlor	<0.048		1.93	2.09		ug/L		108	70 - 130
Pyrene	<0.048		1.93	1.93		ug/L		100	70 - 130
Simazine	<0.048		1.93	1.93		ug/L		100	70 - 130
Terbacil	<0.096		1.93	1.81		ug/L		94	70 - 130
Terbutylazine	<0.096		1.93	2.18		ug/L		113	70 - 130
Thiobencarb	<0.096		1.93	1.98		ug/L		103	70 - 130
trans-Nonachlor	<0.048		1.93	1.79		ug/L		93	70 - 130
Trifluralin	<0.096		1.93	2.02		ug/L		105	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	107		70 - 130

**Lab Sample ID: 380-188682-C-2-A MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 194198**

**Prep Batch: 193565**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
1-Methylnaphthalene	<0.096		1.95	1.96		ug/L		101	70 - 130	1	20
2,4'-DDD	<0.096		1.95	1.91		ug/L		98	70 - 130	5	20

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-188682-C-2-A MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 194198**

**Prep Batch: 193565**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,4'-DDE	<0.096		1.95	2.04		ug/L		105	70 - 130	3	20
2,4'-DDT	<0.096		1.95	1.92		ug/L		98	70 - 130	3	20
2,4-Dinitrotoluene	<0.096		1.95	2.18		ug/L		112	70 - 130	7	20
2,6-Dinitrotoluene	<0.096		1.95	1.94		ug/L		99	70 - 130	6	20
2-Methylnaphthalene	<0.096		1.95	1.98		ug/L		101	70 - 130	0	20
4,4'-DDD	<0.096		1.95	1.95		ug/L		100	70 - 130	4	20
4,4'-DDE	<0.096		1.95	1.94		ug/L		100	70 - 130	3	20
4,4'-DDT	<0.096		1.95	1.93		ug/L		99	70 - 130	4	20
Acenaphthene	<0.096		1.95	1.99		ug/L		102	70 - 130	1	20
Acenaphthylene	<0.096		1.95	2.14		ug/L		110	70 - 130	1	20
Acetochlor	<0.096		1.95	2.09		ug/L		107	70 - 130	3	20
Alachlor	<0.048		1.95	2.16		ug/L		111	70 - 130	3	20
alpha-BHC	<0.096		1.95	2.15		ug/L		110	70 - 130	1	20
alpha-Chlordane	<0.048		1.95	1.89		ug/L		97	70 - 130	5	20
Anthracene	<0.019		1.95	1.87		ug/L		96	70 - 130	5	20
Atrazine	<0.048		1.95	1.99		ug/L		102	70 - 130	1	20
Benz(a)anthracene	<0.048		1.95	1.96		ug/L		101	70 - 130	5	20
Benzo[a]pyrene	<0.019		1.95	1.93		ug/L		99	70 - 130	2	20
Benzo[b]fluoranthene	<0.019		1.95	1.94		ug/L		100	70 - 130	0	20
Benzo[g,h,i]perylene	<0.048		1.95	1.93		ug/L		99	70 - 130	0	20
Benzo[k]fluoranthene	<0.019		1.95	1.76		ug/L		91	70 - 130	3	20
beta-BHC	<0.096		1.95	2.18		ug/L		112	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	<0.58		1.95	1.71		ug/L		88	70 - 130	4	20
Bromacil	<0.096		1.95	1.98		ug/L		102	70 - 130	10	20
Butachlor	<0.048		1.95	2.28		ug/L		117	70 - 130	4	20
Butylbenzylphthalate	<0.48		1.95	2.23		ug/L		115	70 - 130	6	20
Chlorobenzilate	<0.096		1.95	2.14		ug/L		110	70 - 130	5	20
Chloroneb	<0.096		1.95	2.12		ug/L		109	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.096		1.95	2.13		ug/L		109	70 - 130	2	20
Chlorpyrifos	<0.048		1.95	1.88		ug/L		96	70 - 130	5	20
Chrysene	<0.019		1.95	1.73		ug/L		89	70 - 130	2	20
delta-BHC	<0.096		1.95	2.20		ug/L		113	70 - 130	3	20
Di(2-ethylhexyl)adipate	<0.58		1.95	2.08		ug/L		107	70 - 130	2	20
Dibenz(a,h)anthracene	<0.048		1.95	1.94		ug/L		99	70 - 130	2	20
Diclorvos (DDVP)	<0.048		1.95	2.05		ug/L		105	70 - 130	0	20
Dieldrin	<0.0096		1.95	2.05		ug/L		105	70 - 130	5	20
Diethylphthalate	<0.48		1.95	2.17		ug/L		111	70 - 130	2	20
Dimethylphthalate	<0.48		1.95	2.17		ug/L		111	70 - 130	1	20
Di-n-butyl phthalate	<0.96		3.90	4.14		ug/L		106	70 - 130	3	20
Di-n-octyl phthalate	<0.096		1.95	1.59		ug/L		82	70 - 130	6	20
Endosulfan I (Alpha)	<0.096		1.95	1.97		ug/L		101	70 - 130	3	20
Endosulfan II (Beta)	<0.096		1.95	2.18		ug/L		112	70 - 130	3	20
Endosulfan sulfate	<0.096		1.95	2.06		ug/L		106	70 - 130	5	20
Endrin	<0.0096		1.95	2.06		ug/L		106	70 - 130	4	20
Endrin aldehyde	<0.096		1.95	1.70		ug/L		87	60 - 130	7	20
EPTC	<0.096		1.95	2.27		ug/L		116	70 - 130	2	20
Fluoranthene	<0.096		1.95	2.17		ug/L		111	70 - 130	3	20
Fluorene	<0.048		1.95	2.12		ug/L		109	70 - 130	0	20
gamma-Chlordane	<0.048		1.95	1.91		ug/L		98	70 - 130	4	20

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# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-188682-C-2-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 194198

Prep Batch: 193565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Heptachlor	<0.0096		1.95	2.08		ug/L		107	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0096		1.95	2.05		ug/L		105	70 - 130	4	20
Hexachlorobenzene	<0.048		1.95	2.21		ug/L		114	70 - 130	2	20
Hexachlorocyclopentadiene	<0.048		1.95	1.84		ug/L		94	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	<0.048		1.95	2.12		ug/L		109	70 - 130	0	20
Isophorone	<0.096		1.95	1.94		ug/L		100	70 - 130	0	20
Lindane	<0.0096		1.95	2.10		ug/L		108	70 - 130	1	20
Malathion	<0.096		1.95	2.16		ug/L		111	70 - 130	5	20
Methoxychlor	<0.048		1.95	2.13		ug/L		109	70 - 130	2	20
Metolachlor	<0.048		1.95	2.20		ug/L		113	70 - 130	4	20
Molinate	<0.096		1.95	2.13		ug/L		109	70 - 130	0	20
Naphthalene	<0.096		1.95	1.95		ug/L		100	70 - 130	0	20
Parathion	<0.096		1.95	2.27		ug/L		117	70 - 130	6	20
Pendimethalin (Penoxaline)	<0.096		1.95	2.13		ug/L		110	70 - 130	7	20
Phenanthrene	<0.039		1.95	2.01		ug/L		103	70 - 130	1	20
Propachlor	<0.048		1.95	2.13		ug/L		109	70 - 130	2	20
Pyrene	<0.048		1.95	1.99		ug/L		102	70 - 130	3	20
Simazine	<0.048		1.95	2.02		ug/L		103	70 - 130	4	20
Terbacil	<0.096		1.95	1.95		ug/L		100	70 - 130	8	20
Terbutylazine	<0.096		1.95	2.23		ug/L		115	70 - 130	3	20
Thiobencarb	<0.096		1.95	2.05		ug/L		105	70 - 130	3	20
trans-Nonachlor	<0.048		1.95	1.86		ug/L		95	70 - 130	4	20
Trifluralin	<0.096		1.95	2.13		ug/L		109	70 - 130	5	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	110		70 - 130

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

Lab Sample ID: MB 570-673944/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 676240

Prep Batch: 673944

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	12/22/25 10:50	12/29/25 12:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	73		33 - 139	12/22/25 10:50	12/29/25 12:04	1
2-Fluorobiphenyl (Surr)	80		33 - 126	12/22/25 10:50	12/29/25 12:04	1
2-Fluorophenol (Surr)	56		12 - 120	12/22/25 10:50	12/29/25 12:04	1
Nitrobenzene-d5 (Surr)	92		36 - 120	12/22/25 10:50	12/29/25 12:04	1
Phenol-d6 (Surr)	30		10 - 120	12/22/25 10:50	12/29/25 12:04	1
p-Terphenyl-d14 (Surr)	84		47 - 131	12/22/25 10:50	12/29/25 12:04	1

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# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 570-673944/1-A**  
**Matrix: Water**  
**Analysis Batch: 675313**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 673944**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Acenaphthene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Acenaphthylene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Anthracene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Chrysene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Fluoranthene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Fluorene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Naphthalene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Phenanthrene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1
Pyrene	<0.20		0.20	ug/L		12/22/25 10:50	12/26/25 15:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	81		28 - 127	12/22/25 10:50	12/26/25 15:46	1
2-Fluorobiphenyl (Surr)	76		31 - 120	12/22/25 10:50	12/26/25 15:46	1
2-Fluorophenol (Surr)	46		17 - 120	12/22/25 10:50	12/26/25 15:46	1
Nitrobenzene-d5 (Surr)	77		27 - 120	12/22/25 10:50	12/26/25 15:46	1
Phenol-d6 (Surr)	29		10 - 120	12/22/25 10:50	12/26/25 15:46	1
p-Terphenyl-d14 (Surr)	78		45 - 120	12/22/25 10:50	12/26/25 15:46	1

**Lab Sample ID: LCS 570-673944/2-A**  
**Matrix: Water**  
**Analysis Batch: 675313**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 673944**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	15.8		ug/L		79	47 - 120
2-Methylnaphthalene	20.0	15.7		ug/L		78	43 - 120
Acenaphthene	20.0	18.9		ug/L		94	60 - 132
Acenaphthylene	20.0	16.5		ug/L		82	54 - 126
Anthracene	20.0	18.6		ug/L		93	43 - 120
Benzo[a]anthracene	20.0	18.5		ug/L		93	42 - 133
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148
Benzo[b]fluoranthene	20.0	19.4		ug/L		97	42 - 140
Benzo[g,h,i]perylene	20.0	18.6		ug/L		93	1 - 195
Benzo[k]fluoranthene	20.0	18.7		ug/L		94	25 - 146
Chrysene	20.0	18.4		ug/L		92	44 - 140
Dibenz(a,h)anthracene	20.0	19.2		ug/L		96	1 - 200
Fluoranthene	20.0	18.9		ug/L		95	43 - 121
Fluorene	20.0	18.9		ug/L		94	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.6		ug/L		93	1 - 151
Naphthalene	20.0	14.7		ug/L		73	36 - 120

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-673944/2-A

Matrix: Water

Analysis Batch: 675313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673944

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	18.6		ug/L		93	65 - 120
Pyrene	20.0	19.8		ug/L		99	70 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	91		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	95		45 - 120

Lab Sample ID: LCSD 570-673944/3-A

Matrix: Water

Analysis Batch: 675313

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 673944

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	20.0	14.2		ug/L		71	47 - 120	10	20
2-Methylnaphthalene	20.0	13.9		ug/L		70	43 - 120	12	20
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	11	29
Acenaphthylene	20.0	15.2		ug/L		76	54 - 126	8	45
Anthracene	20.0	16.9		ug/L		85	43 - 120	9	40
Benzo[a]anthracene	20.0	16.8		ug/L		84	42 - 133	9	32
Benzo[a]pyrene	20.0	17.6		ug/L		88	32 - 148	9	43
Benzo[b]fluoranthene	20.0	17.3		ug/L		87	42 - 140	11	43
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	1 - 195	9	61
Benzo[k]fluoranthene	20.0	16.8		ug/L		84	25 - 146	11	38
Chrysene	20.0	16.7		ug/L		84	44 - 140	10	53
Dibenz(a,h)anthracene	20.0	17.5		ug/L		87	1 - 200	9	75
Fluoranthene	20.0	17.3		ug/L		86	43 - 121	9	40
Fluorene	20.0	16.8		ug/L		84	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	17.0		ug/L		85	1 - 151	9	60
Naphthalene	20.0	13.2		ug/L		66	36 - 120	11	39
Phenanthrene	20.0	16.9		ug/L		84	65 - 120	10	24
Pyrene	20.0	18.0		ug/L		90	70 - 120	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	79		28 - 127
2-Fluorobiphenyl (Surr)	77		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 570-675935/6**  
**Matrix: Water**  
**Analysis Batch: 675935**

**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			12/28/25 12:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		38 - 134				12/28/25 12:55	1

**Lab Sample ID: LCS 570-675935/4**  
**Matrix: Water**  
**Analysis Batch: 675935**

**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	389		ug/L		97	78 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	100		38 - 134					

**Lab Sample ID: LCSD 570-675935/5**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	400	396		ug/L		99	78 - 120	2	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		38 - 134						

**Lab Sample ID: MRL 570-675935/3**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (C4-C13)	10.0	11.9		ug/L		119	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
4-Bromofluorobenzene (Surr)	93		38 - 134					

**Lab Sample ID: 380-189454-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 675935**

**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	398		ug/L		99	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		38 - 134						

# QC Sample Results

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-189454-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 675935**

**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	380		ug/L		95	68 - 122	5	18
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
4-Bromofluorobenzene (Surr)	101		38 - 134								

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

**Lab Sample ID: MRL 570-671434/4-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0218	J	mg/L		109	50 - 150
<b>Surrogate</b>	<b>%Recovery</b>	<b>MRL Qualifier</b>	<b>MRL Limits</b>				
n-Octacosane (Surr)	111		60 - 130				

**Lab Sample ID: MB 570-673862/1-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 673862**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/22/25 09:41	01/06/26 20:03	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/22/25 09:41	01/06/26 20:03	1
C8-C18	<25		25	ug/L		12/22/25 09:41	01/06/26 20:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
n-Octacosane (Surr)	122		60 - 130	12/22/25 09:41	01/06/26 20:03	1		

**Lab Sample ID: LCS 570-673862/2-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 673862**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1420		ug/L		89	56 - 127
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
n-Octacosane (Surr)	103		60 - 130				

**Lab Sample ID: LCSD 570-673862/3-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 673862**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1560		ug/L		97	56 - 127	9	23

# QC Sample Results

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

Job ID: 380-188577-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCSD 570-673862/3-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 673862**

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	115		60 - 130

**Lab Sample ID: MRL 570-673862/4-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 673862**

<i>Analyte</i>	<i>Spike Added</i>	<i>MRL Result</i>	<i>MRL Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
C10-C28	0.0200	0.0220	J	mg/L		110	50 - 150

<i>Surrogate</i>	<i>MRL %Recovery</i>	<i>MRL Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	106		60 - 130

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# QC Association Summary

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## GC/MS Semi VOA

### Prep Batch: 193565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-193565/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-193565/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-193565/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-193565/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-188682-B-2-A MS	Matrix Spike	Total/NA	Water	525.2	
380-188682-C-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 194198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	193565
MB 380-193565/21-A	Method Blank	Total/NA	Water	525.2	193565
LCS 380-193565/23-A	Lab Control Sample	Total/NA	Water	525.2	193565
LCSD 380-193565/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	193565
MRL 380-193565/22-A	Lab Control Sample	Total/NA	Water	525.2	193565
380-188682-B-2-A MS	Matrix Spike	Total/NA	Water	525.2	193565
380-188682-C-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	193565

### Prep Batch: 673944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-673944/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-673944/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-673944/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 675313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	673944
MB 570-673944/1-A	Method Blank	Total/NA	Water	625.1 SIM	673944
LCS 570-673944/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	673944
LCSD 570-673944/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	673944

### Analysis Batch: 676240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	673944
MB 570-673944/1-A	Method Blank	Total/NA	Water	625.1	673944

## GC VOA

### Analysis Batch: 675935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-188577-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-675935/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-675935/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-675935/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-675935/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-189454-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-189454-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-188577-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

## GC Semi VOA

### Prep Batch: 671434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	3510C	

### Prep Batch: 673862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1 - RA	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-673862/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-673862/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-673862/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-673862/4-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 679225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188577-1 - RA	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	673862
MB 570-673862/1-A	Method Blank	Total/NA	Water	8015B	673862
LCS 570-673862/2-A	Lab Control Sample	Total/NA	Water	8015B	673862
LCSD 570-673862/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	673862
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	8015B	671434
MRL 570-673862/4-A	Lab Control Sample	Total/NA	Water	8015B	673862



## Lab Chronicle

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

Job ID: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-1**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			193565	OTM3	EA POM	12/19/25 08:19
Total/NA	Analysis	525.2		1	194198	UPAC	EA POM	12/23/25 15:26
Total/NA	Prep	625.1			673944	H1SH	EET CAL 4	12/22/25 10:50
Total/NA	Analysis	625.1		1	676240	PQS1	EET CAL 4	12/29/25 12:27
Total/NA	Prep	625.1			673944	H1SH	EET CAL 4	12/22/25 10:50
Total/NA	Analysis	625.1 SIM		1	675313	PQS1	EET CAL 4	12/26/25 16:51
Total/NA	Analysis	8015B GRO LL		1	675935	AJG4	EET CAL 4	12/28/25 16:48
Total/NA	Prep	3510C	RA		673862	TVD6	EET CAL 4	12/22/25 09:41
Total/NA	Analysis	8015B	RA	1	679225	H6FE	EET CAL 4	01/06/26 21:08

**Client Sample ID: TB: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-188577-2**

Date Collected: 12/16/25 09:45

Matrix: Water

Date Received: 12/18/25 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	675935	AJG4	EET CAL 4	12/28/25 13:52

**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: 380-188577-1  
 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	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26

# Accreditation/Certification Summary

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

Job ID: 380-188577-1  
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
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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# Method Summary

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

Job ID: 380-188577-1  
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: 380-188577-1  
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-188577-1	HALAWA SHAFT VIEWING POOL	Water	12/16/25 09:45	12/18/25 10:12	Hawaii
380-188577-2	TB: HALAWA SHAFT VIEWING POOL	Water	12/16/25 09:45	12/18/25 10:12	Hawaii

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<b>Client Information</b>		Lab PM Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1	
Client Contact: Mr. Kirk Iwamoto		E-Mail Rachelle.Arada@eurofins.com		State of Origin:		Page: Page 1 of 1	
Company City & County of Honolulu		FWSID:		Job #:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		Analysis Requested		Preservation (	
City: Honolulu		TAT Requested (days):		537 1_DW_PREC - 537 1 Full List		R - NaThioSO4	
State/Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		525.2_PREC - (MOD) 525plus Plus TICs		RA - NaThio/HCl	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		Q - Na2SO3	
Email: kiwamoto@hbws.org		WO #:		8015B_GRO_LL - (MOD) GRO		QA - Na2SO3/HC	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		825.1, 825.1_SIM		Y - Trizma	
Site: Hawaii		SSOW#:		Field Filtered Sample (Yes or No)		I - NH4 Acetate	
				Param MS/MSD (Yes or No)		Other:	
				533 All Analytes		Total Number of Containers	
				537 1_DW_PREC - 537 1 Full List		Special Instructions/Note:	
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
				533 All Analytes			
				537 1_DW_PREC - 537 1 Full List			
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
				8015B_GRO_LL - (MOD) GRO			
				825.1, 825.1_SIM			
				Field Filtered Sample (Yes or No)			
				Param MS/MSD (Yes or No)			
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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188577-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

**Login Number: 188577**

**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: 380-188577-1  
SDG Number: Weekly: Halawa Shaft Viewing Pool

**Login Number: 188577**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 12/18/25 07:05 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	1.9
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	