

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Halawa Shaft Viewing Pool

## JOB NUMBER

380-217656-1

# 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: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA TICs

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

## 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: 380-217656-1

**Job ID: 380-217656-1**

**Eurofins Pomona**

## Job Narrative 380-217656-1

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 6/3/2026 10:05 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 4.6°C.

### Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: HALAWA SHAFT VIEWING POOL (380-217656-1) and TB: HALAWA SHAFT VIEWING POOL (380-217656-2). The client was contacted on 06/04/26, and the laboratory was provided with an updated chain of custody indicating sampling time. (XWB4)

### GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/DUP) associated with preparation batch 570-750843.

Method 625.1 SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/DUP) associated with preparation batch 570-750843.

Method 625.1 SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-750843 and analytical batch 570-751912 recovered outside control limits for the following analytes: Acenaphthene and Acenaphthylene.

Method 625.1 SIM: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 570-750843 and analytical batch 570-751912: Acenaphthylene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-1**

No Detections.

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

**Lab Sample ID: 380-217656-2**

No Detections.

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

This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-1**

Date Collected: 06/02/26 09:30

Matrix: Drinking Water

Date Received: 06/03/26 10:05

**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		06/06/26 07:52	06/08/26 19:27	1
2,4'-DDD	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
2,4'-DDE	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
2,4'-DDT	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
4,4'-DDD	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
4,4'-DDE	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
4,4'-DDT	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Acenaphthene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Acenaphthylene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Acetochlor	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Alachlor	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
alpha-BHC	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
alpha-Chlordane	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Anthracene	<0.019		0.019	ug/L		06/06/26 07:52	06/08/26 19:27	1
Atrazine	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Benz(a)anthracene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/06/26 07:52	06/08/26 19:27	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/06/26 07:52	06/08/26 19:27	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/06/26 07:52	06/08/26 19:27	1
beta-BHC	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/06/26 07:52	06/08/26 19:27	1
Bromacil	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Butachlor	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Butylbenzylphthalate	<0.48		0.48	ug/L		06/06/26 07:52	06/08/26 19:27	1
Chlorobenzilate	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Chloroneb	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Chlorpyrifos	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Chrysene	<0.019		0.019	ug/L		06/06/26 07:52	06/08/26 19:27	1
delta-BHC	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/06/26 07:52	06/08/26 19:27	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Dieldrin	<0.0097		0.0097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Diethylphthalate	<0.48		0.48	ug/L		06/06/26 07:52	06/08/26 19:27	1
Dimethylphthalate	<0.48		0.48	ug/L		06/06/26 07:52	06/08/26 19:27	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/06/26 07:52	06/08/26 19:27	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Endrin	<0.0097		0.0097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Endrin aldehyde	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
EPTC	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Fluoranthene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1

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# Client Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-1**

Date Collected: 06/02/26 09:30

Matrix: Drinking Water

Date Received: 06/03/26 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
gamma-Chlordane	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Heptachlor	<0.0097		0.0097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Hexachlorobenzene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Isophorone	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Lindane	<0.0097		0.0097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Malathion	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Methoxychlor	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Metolachlor	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Molinate	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Naphthalene	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Parathion	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Phenanthrene	<0.039		0.039	ug/L		06/06/26 07:52	06/08/26 19:27	1
Propachlor	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Pyrene	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Simazine	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Terbacil	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Terbutylazine	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Thiobencarb	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/06/26 07:52	06/08/26 19:27	1
trans-Nonachlor	<0.048		0.048	ug/L		06/06/26 07:52	06/08/26 19:27	1
Trifluralin	<0.097		0.097	ug/L		06/06/26 07:52	06/08/26 19:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.3	T J	ug/L		3.82	N/A	06/06/26 07:52	06/08/26 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	06/06/26 07:52	06/08/26 19:27	1
Perylene-d12	99		70 - 130	06/06/26 07:52	06/08/26 19:27	1
Triphenylphosphate	99		70 - 130	06/06/26 07:52	06/08/26 19:27	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		06/08/26 12:55	06/10/26 11:04	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Acenaphthene	<0.19	*1	0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Acenaphthylene	<0.19	*- *1	0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Anthracene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Chrysene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Fluoranthene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1

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# Client Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-1**

Date Collected: 06/02/26 09:30

Matrix: Drinking Water

Date Received: 06/03/26 10:05

**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		06/08/26 12:55	06/10/26 11:04	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Naphthalene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Phenanthrene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1
Pyrene	<0.19		0.19	ug/L		06/08/26 12:55	06/10/26 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	06/08/26 12:55	06/10/26 11:04	1
2-Fluorobiphenyl (Surr)	89		31 - 120	06/08/26 12:55	06/10/26 11:04	1
2-Fluorophenol (Surr)	53		17 - 120	06/08/26 12:55	06/10/26 11:04	1
Nitrobenzene-d5 (Surr)	82		27 - 120	06/08/26 12:55	06/10/26 11:04	1
Phenol-d6 (Surr)	29		10 - 120	06/08/26 12:55	06/10/26 11:04	1
p-Terphenyl-d14 (Surr)	81		45 - 120	06/08/26 12:55	06/10/26 11:04	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	06/08/26 12:55	06/12/26 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	06/08/26 12:55	06/12/26 14:44	1
2-Fluorobiphenyl (Surr)	85		33 - 126	06/08/26 12:55	06/12/26 14:44	1
2-Fluorophenol (Surr)	58		12 - 120	06/08/26 12:55	06/12/26 14:44	1
Nitrobenzene-d5 (Surr)	104		36 - 120	06/08/26 12:55	06/12/26 14:44	1
Phenol-d6 (Surr)	34		10 - 120	06/08/26 12:55	06/12/26 14:44	1
p-Terphenyl-d14 (Surr)	79		47 - 131	06/08/26 12:55	06/12/26 14:44	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			06/14/26 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		06/14/26 16:11	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		06/07/26 09:31	06/14/26 22:11	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		06/07/26 09:31	06/14/26 22:11	1
C8-C18	<26		26	ug/L		06/07/26 09:31	06/14/26 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		60 - 130	06/07/26 09:31	06/14/26 22:11	1

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

**Lab Sample ID: 380-217656-2**

Date Collected: 06/02/26 09:30

Matrix: Water

Date Received: 06/03/26 10:05

**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			06/14/26 20:26	1

# Client Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-2**

**Date Collected: 06/02/26 09:30**

**Matrix: Water**

**Date Received: 06/03/26 10:05**

<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)	95		38 - 134		06/14/26 20:26	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: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-1**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-217656-1	HALAWA SHAFT VIEWING POC	99	99	99

**Surrogate Legend**

2NMX = 2-Nitro-m-xylene  
PRY = Perylene-d12  
TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-217333-B-1-A MS	Matrix Spike	98	96	98
380-217546-H-1-A DU	Duplicate	99	96	97
LCS 380-232074/23-A	Lab Control Sample	95	96	97
MB 380-232074/21-A	Method Blank	97	86	95
MRL 380-232074/22-A	Lab Control Sample	97	92	92

**Surrogate Legend**

2NMX = 2-Nitro-m-xylene  
PRY = Perylene-d12  
TPP = Triphenylphosphate

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-217656-1	HALAWA SHAFT VIEWING POC	79	85	58	104	34	79

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-750843/1-A	Method Blank	60	70	55	94	33	84

**Surrogate Legend**

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

# Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-217656-1

Project/Site: RED-HILL

SDG: Weekly: Halawa Shaft Viewing Pool

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-217656-1	HALAWA SHAFT VIEWING POC	88	89	53	82	29	81

### Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
LCS 570-750843/2-A	Lab Control Sample	80	72	33	58	18	84
LCSD 570-750843/3-A	Lab Control Sample Dup	81	88	44	69	31	88
MB 570-750843/1-A	Method Blank	77	72	47	70	29	93

### Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-217656-1	HALAWA SHAFT VIEWING POC	95

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-217656-2	TB: HALAWA SHAFT VIEWING	95
LCS 570-753981/3	Lab Control Sample	91
LCSD 570-753981/4	Lab Control Sample Dup	96
MB 570-753981/6	Method Blank	96
MRL 570-753981/5	Lab Control Sample	93

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# Surrogate Summary

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-217656-1	HALAWA SHAFT VIEWING POC	118

## Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-217956-J-1-A MS	Matrix Spike	110
380-217956-K-1-A MSD	Matrix Spike Duplicate	114
LCS 570-750350/2-A	Lab Control Sample	110
LCSD 570-750350/3-A	Lab Control Sample Dup	97
MB 570-750350/1-A	Method Blank	110
MRL 570-750350/4-A	Lab Control Sample	79

## Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-217656-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 380-232074/21-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
2,4'-DDD	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
2,4'-DDE	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
2,4'-DDT	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
2-Methylnaphthalene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
4,4'-DDD	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
4,4'-DDE	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
4,4'-DDT	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Acenaphthene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Acenaphthylene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Acetochlor	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Alachlor	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
alpha-BHC	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
alpha-Chlordane	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Anthracene	<0.020		0.020	ug/L		06/06/26 07:52	06/08/26 15:01	1
Atrazine	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/06/26 07:52	06/08/26 15:01	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/06/26 07:52	06/08/26 15:01	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/06/26 07:52	06/08/26 15:01	1
beta-BHC	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		06/06/26 07:52	06/08/26 15:01	1
Bromacil	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Butachlor	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/06/26 07:52	06/08/26 15:01	1
Chlorobenzilate	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Chloroneb	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Chlorpyrifos	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Chrysene	<0.020		0.020	ug/L		06/06/26 07:52	06/08/26 15:01	1
delta-BHC	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		06/06/26 07:52	06/08/26 15:01	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Dieldrin	<0.0099		0.0099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Diethylphthalate	<0.50		0.50	ug/L		06/06/26 07:52	06/08/26 15:01	1
Dimethylphthalate	<0.50		0.50	ug/L		06/06/26 07:52	06/08/26 15:01	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		06/06/26 07:52	06/08/26 15:01	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Endosulfan sulfate	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Endrin	<0.0099		0.0099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Endrin aldehyde	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
EPTC	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 380-232074/21-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Fluorene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
gamma-Chlordane	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Heptachlor	<0.0099		0.0099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Isophorone	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Lindane	<0.0099		0.0099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Malathion	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Methoxychlor	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Metolachlor	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Molinate	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Naphthalene	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Parathion	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Phenanthrene	<0.040		0.040	ug/L		06/06/26 07:52	06/08/26 15:01	1
Propachlor	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Pyrene	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Simazine	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Terbacil	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Terbutylazine	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Thiobencarb	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/06/26 07:52	06/08/26 15:01	1
trans-Nonachlor	<0.050		0.050	ug/L		06/06/26 07:52	06/08/26 15:01	1
Trifluralin	<0.099		0.099	ug/L		06/06/26 07:52	06/08/26 15:01	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
13-Docosenamido, (Z)-	0.972	T J N	ug/L		10.24	112-84-5	06/06/26 07:52	06/08/26 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	06/06/26 07:52	06/08/26 15:01	1
Perylene-d12	86		70 - 130	06/06/26 07:52	06/08/26 15:01	1
Triphenylphosphate	95		70 - 130	06/06/26 07:52	06/08/26 15:01	1

**Lab Sample ID: LCS 380-232074/23-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.98	1.87		ug/L		95	70 - 130
2,4'-DDD	1.98	1.89		ug/L		95	70 - 130
2,4'-DDE	1.98	1.97		ug/L		99	70 - 130
2,4'-DDT	1.98	1.86		ug/L		94	70 - 130
2,4-Dinitrotoluene	1.98	1.85		ug/L		93	70 - 130
2,6-Dinitrotoluene	1.98	1.85		ug/L		94	70 - 130
2-Methylnaphthalene	1.98	1.89		ug/L		95	70 - 130

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# QC Sample Results

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

Job ID: 380-217656-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 380-232074/23-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.98	1.84		ug/L		93	70 - 130
4,4'-DDE	1.98	1.75		ug/L		88	70 - 130
4,4'-DDT	1.98	1.85		ug/L		94	70 - 130
Acenaphthene	1.98	1.95		ug/L		98	70 - 130
Acenaphthylene	1.98	1.77		ug/L		89	70 - 130
Acetochlor	1.98	1.91		ug/L		96	70 - 130
Alachlor	1.98	1.90		ug/L		96	70 - 130
alpha-BHC	1.98	2.01		ug/L		101	70 - 130
alpha-Chlordane	1.98	1.91		ug/L		97	70 - 130
Anthracene	1.98	1.87		ug/L		94	70 - 130
Atrazine	1.98	1.93		ug/L		98	70 - 130
Benz(a)anthracene	1.98	2.03		ug/L		103	70 - 130
Benzo[a]pyrene	1.98	1.99		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.98	1.98		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.98	1.80		ug/L		91	70 - 130
Benzo[k]fluoranthene	1.98	2.11		ug/L		106	70 - 130
beta-BHC	1.98	2.01		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.85		ug/L		93	70 - 130
Bromacil	1.98	1.87		ug/L		94	70 - 130
Butachlor	1.98	1.94		ug/L		98	70 - 130
Butylbenzylphthalate	1.98	2.12		ug/L		107	70 - 130
Chlorobenzilate	1.98	1.80		ug/L		91	70 - 130
Chloroneb	1.98	2.02		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	1.84		ug/L		93	70 - 130
Chlorpyrifos	1.98	1.92		ug/L		97	70 - 130
Chrysene	1.98	1.94		ug/L		98	70 - 130
delta-BHC	1.98	1.95		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.98	1.91		ug/L		97	70 - 130
Dibenz(a,h)anthracene	1.98	1.89		ug/L		95	70 - 130
Diclorvos (DDVP)	1.98	2.02		ug/L		102	70 - 130
Dieldrin	1.98	1.92		ug/L		97	70 - 130
Diethylphthalate	1.98	2.15		ug/L		108	70 - 130
Dimethylphthalate	1.98	2.07		ug/L		104	70 - 130
Di-n-butyl phthalate	3.96	4.11		ug/L		104	70 - 130
Di-n-octyl phthalate	1.98	1.63		ug/L		82	70 - 130
Endosulfan I (Alpha)	1.98	1.92		ug/L		97	70 - 130
Endosulfan II (Beta)	1.98	1.98		ug/L		100	70 - 130
Endosulfan sulfate	1.98	1.81		ug/L		91	70 - 130
Endrin	1.98	1.90		ug/L		96	70 - 130
Endrin aldehyde	1.98	1.80		ug/L		91	60 - 130
EPTC	1.98	1.99		ug/L		100	70 - 130
Fluoranthene	1.98	1.99		ug/L		100	70 - 130
Fluorene	1.98	1.89		ug/L		95	70 - 130
gamma-Chlordane	1.98	1.90		ug/L		96	70 - 130
Heptachlor	1.98	1.86		ug/L		94	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.00		ug/L		101	70 - 130
Hexachlorobenzene	1.98	1.92		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.98	1.80		ug/L		91	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.84		ug/L		93	70 - 130

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# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 380-232074/23-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.98	2.07		ug/L		105	70 - 130
Lindane	1.98	1.98		ug/L		100	70 - 130
Malathion	1.98	1.91		ug/L		96	70 - 130
Methoxychlor	1.98	2.02		ug/L		102	70 - 130
Metolachlor	1.98	1.95		ug/L		98	70 - 130
Molinate	1.98	1.96		ug/L		99	70 - 130
Naphthalene	1.98	1.95		ug/L		99	70 - 130
Parathion	1.98	1.89		ug/L		95	70 - 130
Pendimethalin (Penoxaline)	1.98	1.89		ug/L		95	70 - 130
Phenanthrene	1.98	1.98		ug/L		100	70 - 130
Propachlor	1.98	1.97		ug/L		100	70 - 130
Pyrene	1.98	1.97		ug/L		99	70 - 130
Simazine	1.98	2.03		ug/L		103	70 - 130
Terbacil	1.98	1.91		ug/L		96	70 - 130
Terbutylazine	1.98	1.91		ug/L		96	70 - 130
Thiobencarb	1.98	1.92		ug/L		97	70 - 130
trans-Nonachlor	1.98	1.79		ug/L		91	70 - 130
Trifluralin	1.98	1.71		ug/L		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	97		70 - 130

**Lab Sample ID: MRL 380-232074/22-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0990	0.0924	J	ug/L		93	50 - 150
2,4'-DDD	0.0990	0.0853	J	ug/L		86	50 - 150
2,4'-DDE	0.0990	0.0905	J	ug/L		91	50 - 150
2,4'-DDT	0.0990	0.0965	J	ug/L		97	50 - 150
2,4-Dinitrotoluene	0.0990	0.105		ug/L		106	50 - 150
2,6-Dinitrotoluene	0.0990	0.102		ug/L		103	50 - 150
2-Methylnaphthalene	0.0990	0.0962	J	ug/L		97	50 - 150
4,4'-DDD	0.0990	0.0932	J	ug/L		94	50 - 150
4,4'-DDE	0.0990	0.0934	J	ug/L		94	50 - 150
4,4'-DDT	0.0990	0.118		ug/L		119	50 - 150
Acenaphthene	0.0990	0.0895	J	ug/L		90	50 - 150
Acenaphthylene	0.0990	0.0827	J	ug/L		84	50 - 150
Acetochlor	0.0990	0.0915	J	ug/L		92	50 - 150
Alachlor	0.0495	0.0484	J	ug/L		98	50 - 150
alpha-BHC	0.0990	0.0934	J	ug/L		94	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		110	50 - 150
Anthracene	0.0198	0.0211		ug/L		106	50 - 150
Atrazine	0.0495	0.0573		ug/L		116	50 - 150
Benz(a)anthracene	0.0495	0.0514		ug/L		104	50 - 150

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MRL 380-232074/22-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0198	0.0238		ug/L		120	50 - 150
Benzo[b]fluoranthene	0.0198	0.0246		ug/L		124	50 - 150
Benzo[g,h,i]perylene	0.0495	0.0464	J	ug/L		94	50 - 150
Benzo[k]fluoranthene	0.0198	0.0207		ug/L		104	50 - 150
beta-BHC	0.0990	0.102		ug/L		103	50 - 150
Bis(2-ethylhexyl) phthalate	0.594	0.567	J	ug/L		95	50 - 150
Bromacil	0.0990	0.0989	J	ug/L		100	50 - 150
Butachlor	0.0495	0.0502		ug/L		101	50 - 150
Butylbenzylphthalate	0.495	0.493	J	ug/L		100	50 - 150
Chlorobenzilate	0.0990	0.0869	J	ug/L		88	50 - 150
Chloroneb	0.0990	0.0954	J	ug/L		96	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0990	0.0960	J	ug/L		97	50 - 150
Chlorpyrifos	0.0495	0.0535		ug/L		108	50 - 150
Chrysene	0.0198	0.0239		ug/L		121	50 - 150
delta-BHC	0.0990	0.101		ug/L		102	50 - 150
Di(2-ethylhexyl)adipate	0.594	0.590		ug/L		99	50 - 150
Dibenz(a,h)anthracene	0.0495	0.0504		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0495	0.0517		ug/L		104	50 - 150
Dieldrin	0.00990	0.0113		ug/L		114	50 - 150
Diethylphthalate	0.495	0.528		ug/L		107	50 - 150
Dimethylphthalate	0.495	0.503		ug/L		102	50 - 150
Di-n-butyl phthalate	0.495	0.545	J	ug/L		110	49 - 243
Di-n-octyl phthalate	0.0990	0.0914	J	ug/L		92	50 - 150
Endosulfan I (Alpha)	0.0990	0.0808	J	ug/L		82	50 - 150
Endosulfan II (Beta)	0.0990	0.0961	J	ug/L		97	50 - 150
Endosulfan sulfate	0.0990	0.0944	J	ug/L		95	50 - 150
Endrin	0.00990	0.0117		ug/L		118	50 - 150
Endrin aldehyde	0.0990	0.105		ug/L		106	50 - 150
EPTC	0.0990	0.0940	J	ug/L		95	50 - 150
Fluoranthene	0.0990	0.0952	J	ug/L		96	50 - 150
Fluorene	0.0495	0.0538		ug/L		109	50 - 150
gamma-Chlordane	0.0248	0.0246	J	ug/L		100	50 - 150
Heptachlor	0.00990	0.0105		ug/L		106	50 - 150
Heptachlor epoxide (isomer B)	0.00990	0.0116		ug/L		117	50 - 150
Hexachlorobenzene	0.0495	0.0444	J	ug/L		90	50 - 150
Hexachlorocyclopentadiene	0.0495	0.0458	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0495	0.0474	J	ug/L		96	50 - 150
Isophorone	0.0990	0.0948	J	ug/L		96	50 - 150
Lindane	0.00990	0.0112		ug/L		113	50 - 150
Malathion	0.0990	0.0929	J	ug/L		94	50 - 150
Methoxychlor	0.0495	0.0574		ug/L		116	50 - 150
Metolachlor	0.0495	0.0490	J	ug/L		99	50 - 150
Molinate	0.0990	0.104		ug/L		105	50 - 150
Naphthalene	0.0990	0.0911	J	ug/L		92	50 - 150
Parathion	0.0990	0.0888	J	ug/L		90	50 - 150
Pendimethalin (Penoxaline)	0.0990	0.0887	J	ug/L		90	50 - 150
Phenanthrene	0.0396	0.0383	J	ug/L		97	50 - 150
Propachlor	0.0495	0.0582		ug/L		118	50 - 150
Pyrene	0.0495	0.0535		ug/L		108	50 - 150

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MRL 380-232074/22-A**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Simazine	0.0495	0.0577		ug/L		117	50 - 150
Terbacil	0.0990	0.0909	J	ug/L		92	50 - 150
Terbuthylazine	0.0990	0.100		ug/L		101	50 - 150
Thiobencarb	0.0990	0.0969	J	ug/L		98	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		99	50 - 150
Trifluralin	0.0990	0.0960	J	ug/L		97	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	92		70 - 130

**Lab Sample ID: 380-217333-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.96	1.98		ug/L		101	70 - 130
2,4'-DDD	<0.097		1.96	1.89		ug/L		97	70 - 130
2,4'-DDE	<0.097		1.96	1.95		ug/L		100	70 - 130
2,4'-DDT	<0.097		1.96	1.82		ug/L		93	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	2.05		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	2.01		ug/L		103	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.97		ug/L		101	70 - 130
4,4'-DDD	<0.097		1.96	1.87		ug/L		96	70 - 130
4,4'-DDE	<0.097		1.96	1.73		ug/L		88	70 - 130
4,4'-DDT	<0.097		1.96	1.80		ug/L		92	70 - 130
Acenaphthene	<0.097		1.96	2.03		ug/L		104	70 - 130
Acenaphthylene	<0.097		1.96	1.81		ug/L		92	70 - 130
Acetochlor	<0.097		1.96	1.95		ug/L		100	70 - 130
Alachlor	<0.048		1.96	1.98		ug/L		101	70 - 130
alpha-BHC	<0.097		1.96	2.05		ug/L		105	70 - 130
alpha-Chlordane	<0.048		1.96	2.06		ug/L		105	70 - 130
Anthracene	<0.019	F1	1.96	0.585	F1	ug/L		30	70 - 130
Atrazine	<0.048		1.96	2.06		ug/L		105	70 - 130
Benz(a)anthracene	<0.048		1.96	1.71		ug/L		88	70 - 130
Benzo[a]pyrene	<0.019	F1	1.96	1.24	F1	ug/L		63	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	2.02		ug/L		104	70 - 130
Benzo[g,h,i]perylene	<0.048		1.96	1.88		ug/L		96	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.07		ug/L		106	70 - 130
beta-BHC	<0.097		1.96	2.14		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.75		ug/L		90	70 - 130
Bromacil	<0.097		1.96	2.01		ug/L		103	70 - 130
Butachlor	<0.048		1.96	2.04		ug/L		104	70 - 130
Butylbenzylphthalate	<0.48		1.96	2.23		ug/L		114	70 - 130
Chlorobenzilate	<0.097		1.96	1.89		ug/L		97	70 - 130
Chloroneb	<0.097		1.96	2.06		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	1.89		ug/L		97	70 - 130

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217333-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorpyrifos	<0.048		1.96	1.99		ug/L		102	70 - 130
Chrysene	<0.019		1.96	2.02		ug/L		103	70 - 130
delta-BHC	<0.097		1.96	2.04		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	1.82		ug/L		93	70 - 130
Dibenz(a,h)anthracene	<0.048		1.96	1.84		ug/L		94	70 - 130
Diclorvos (DDVP)	<0.048		1.96	2.16		ug/L		110	70 - 130
Dieldrin	<0.0097		1.96	1.94		ug/L		99	70 - 130
Diethylphthalate	<0.48		1.96	2.28		ug/L		116	70 - 130
Dimethylphthalate	<0.48		1.96	2.17		ug/L		111	70 - 130
Di-n-butyl phthalate	<0.97		3.91	4.18		ug/L		107	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.56		ug/L		80	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	1.95		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.097		1.96	2.03		ug/L		104	70 - 130
Endosulfan sulfate	<0.097		1.96	1.92		ug/L		98	70 - 130
Endrin	<0.0097		1.96	1.96		ug/L		100	70 - 130
Endrin aldehyde	<0.097		1.96	1.72		ug/L		88	60 - 130
EPTC	<0.097		1.96	2.07		ug/L		106	70 - 130
Fluoranthene	<0.097		1.96	2.01		ug/L		102	70 - 130
Fluorene	<0.048		1.96	2.01		ug/L		103	70 - 130
gamma-Chlordane	<0.048		1.96	1.95		ug/L		99	70 - 130
Heptachlor	<0.0097		1.96	1.90		ug/L		97	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.96	1.99		ug/L		102	70 - 130
Hexachlorobenzene	<0.048		1.96	2.02		ug/L		103	70 - 130
Hexachlorocyclopentadiene	<0.048		1.96	1.90		ug/L		97	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.96	1.84		ug/L		94	70 - 130
Isophorone	<0.097		1.96	2.16		ug/L		110	70 - 130
Lindane	<0.0097		1.96	2.13		ug/L		109	70 - 130
Malathion	<0.097		1.96	2.03		ug/L		104	70 - 130
Methoxychlor	<0.048		1.96	2.16		ug/L		111	70 - 130
Metolachlor	<0.048		1.96	2.03		ug/L		104	70 - 130
Molinate	<0.097		1.96	2.04		ug/L		104	70 - 130
Naphthalene	<0.097		1.96	2.02		ug/L		103	70 - 130
Parathion	<0.097		1.96	2.00		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.04		ug/L		104	70 - 130
Phenanthrene	<0.039		1.96	2.03		ug/L		104	70 - 130
Propachlor	<0.048		1.96	2.06		ug/L		106	70 - 130
Pyrene	<0.048		1.96	1.98		ug/L		101	70 - 130
Simazine	<0.048		1.96	2.19		ug/L		112	70 - 130
Terbacil	<0.097		1.96	2.07		ug/L		106	70 - 130
Terbutylazine	<0.097		1.96	2.11		ug/L		108	70 - 130
Thiobencarb	<0.097		1.96	2.01		ug/L		103	70 - 130
trans-Nonachlor	<0.048		1.96	1.86		ug/L		95	70 - 130
Trifluralin	<0.097		1.96	1.85		ug/L		95	70 - 130

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

# QC Sample Results

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

Job ID: 380-217656-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217546-H-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
2,4'-DDD	<0.099		<0.098		ug/L		NC	20
2,4'-DDE	<0.099		<0.098		ug/L		NC	20
2,4'-DDT	<0.099		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
4,4'-DDD	<0.099		<0.098		ug/L		NC	20
4,4'-DDE	<0.099		<0.098		ug/L		NC	20
4,4'-DDT	<0.099		<0.098		ug/L		NC	20
Acenaphthene	<0.099		<0.098		ug/L		NC	20
Acenaphthylene	<0.099		<0.098		ug/L		NC	20
Acetochlor	<0.099		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.099		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.099		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.098		ug/L		NC	20
Chloroneb	<0.099		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0099		<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.098		ug/L		NC	20
Endrin	<0.0099		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.099		<0.098		ug/L		NC	20
EPTC	<0.099		<0.098		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217546-H-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 232383**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 232074**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Fluoranthene	<0.099		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.099		<0.098		ug/L		NC	20
Lindane	<0.0099		<0.0098		ug/L		NC	20
Malathion	<0.099		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.099		<0.098		ug/L		NC	20
Naphthalene	<0.099		<0.098		ug/L		NC	20
Parathion	<0.099		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.098		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.099		<0.098		ug/L		NC	20
Terbutylazine	<0.099		<0.098		ug/L		NC	20
Thiobencarb	<0.099		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	97		70 - 130

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

**Lab Sample ID: MB 570-750843/1-A**  
**Matrix: Water**  
**Analysis Batch: 753197**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

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	06/08/26 12:55	06/12/26 11:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	60		33 - 139	06/08/26 12:55	06/12/26 11:23	1
2-Fluorobiphenyl (Surr)	70		33 - 126	06/08/26 12:55	06/12/26 11:23	1
2-Fluorophenol (Surr)	55		12 - 120	06/08/26 12:55	06/12/26 11:23	1
Nitrobenzene-d5 (Surr)	94		36 - 120	06/08/26 12:55	06/12/26 11:23	1
Phenol-d6 (Surr)	33		10 - 120	06/08/26 12:55	06/12/26 11:23	1

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# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 570-750843/1-A**  
**Matrix: Water**  
**Analysis Batch: 753197**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl-d14 (Surr)	84		47 - 131	06/08/26 12:55	06/12/26 11:23	1

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

**Lab Sample ID: MB 570-750843/1-A**  
**Matrix: Water**  
**Analysis Batch: 751912**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Acenaphthene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Acenaphthylene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Anthracene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Chrysene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Fluoranthene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Fluorene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Naphthalene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Phenanthrene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1
Pyrene	<0.20		0.20	ug/L		06/08/26 12:55	06/10/26 07:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		28 - 127	06/08/26 12:55	06/10/26 07:09	1
2-Fluorobiphenyl (Surr)	72		31 - 120	06/08/26 12:55	06/10/26 07:09	1
2-Fluorophenol (Surr)	47		17 - 120	06/08/26 12:55	06/10/26 07:09	1
Nitrobenzene-d5 (Surr)	70		27 - 120	06/08/26 12:55	06/10/26 07:09	1
Phenol-d6 (Surr)	29		10 - 120	06/08/26 12:55	06/10/26 07:09	1
<i>p</i> -Terphenyl-d14 (Surr)	93		45 - 120	06/08/26 12:55	06/10/26 07:09	1

**Lab Sample ID: LCS 570-750843/2-A**  
**Matrix: Water**  
**Analysis Batch: 751912**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.7		ug/L		74	47 - 120
2-Methylnaphthalene	20.0	13.1		ug/L		65	43 - 120
Acenaphthene	20.0	13.0		ug/L		65	60 - 132
Acenaphthylene	20.0	8.41	*-	ug/L		42	54 - 126
Anthracene	20.0	14.2		ug/L		71	43 - 120
Benzo[a]anthracene	20.0	16.9		ug/L		85	42 - 133
Benzo[a]pyrene	20.0	15.5		ug/L		77	32 - 148

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 570-750843/2-A**  
**Matrix: Water**  
**Analysis Batch: 751912**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	20.0	16.7		ug/L		83	42 - 140
Benzo[g,h,i]perylene	20.0	15.5		ug/L		78	1 - 195
Benzo[k]fluoranthene	20.0	16.7		ug/L		84	25 - 146
Chrysene	20.0	16.9		ug/L		84	44 - 140
Dibenz(a,h)anthracene	20.0	18.6		ug/L		93	1 - 200
Fluoranthene	20.0	16.1		ug/L		81	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.9		ug/L		84	1 - 151
Naphthalene	20.0	12.4		ug/L		62	36 - 120
Phenanthrene	20.0	16.8		ug/L		84	65 - 120
Pyrene	20.0	16.4		ug/L		82	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	33		17 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d6 (Surr)	18		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

**Lab Sample ID: LCSD 570-750843/3-A**  
**Matrix: Water**  
**Analysis Batch: 751912**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	15.9		ug/L		79	47 - 120	8	20
2-Methylnaphthalene	20.0	14.5		ug/L		72	43 - 120	10	20
Acenaphthene	20.0	17.6	*1	ug/L		88	60 - 132	30	29
Acenaphthylene	20.0	16.8	*1	ug/L		84	54 - 126	66	45
Anthracene	20.0	17.5		ug/L		88	43 - 120	20	40
Benzo[a]anthracene	20.0	18.3		ug/L		92	42 - 133	8	32
Benzo[a]pyrene	20.0	16.4		ug/L		82	32 - 148	6	43
Benzo[b]fluoranthene	20.0	18.1		ug/L		91	42 - 140	8	43
Benzo[g,h,i]perylene	20.0	19.7		ug/L		98	1 - 195	24	61
Benzo[k]fluoranthene	20.0	17.7		ug/L		88	25 - 146	5	38
Chrysene	20.0	18.0		ug/L		90	44 - 140	6	53
Dibenz(a,h)anthracene	20.0	19.2		ug/L		96	1 - 200	3	75
Fluoranthene	20.0	16.7		ug/L		83	43 - 121	3	40
Fluorene	20.0	17.3		ug/L		86	70 - 120	11	23
Indeno[1,2,3-cd]pyrene	20.0	19.5		ug/L		98	1 - 151	15	60
Naphthalene	20.0	14.5		ug/L		73	36 - 120	16	39
Phenanthrene	20.0	18.4		ug/L		92	65 - 120	9	24
Pyrene	20.0	17.9		ug/L		89	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	44		17 - 120

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# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCSD 570-750843/3-A**  
**Matrix: Water**  
**Analysis Batch: 751912**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 750843**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

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

**Lab Sample ID: MB 570-753981/6**  
**Matrix: Water**  
**Analysis Batch: 753981**

**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			06/14/26 14:19	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134		06/14/26 14:19	1

**Lab Sample ID: LCS 570-753981/3**  
**Matrix: Water**  
**Analysis Batch: 753981**

**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	366		ug/L		91	78 - 120

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		38 - 134

**Lab Sample ID: LCSD 570-753981/4**  
**Matrix: Water**  
**Analysis Batch: 753981**

**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	361		ug/L		90	78 - 120	1	10

  

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

**Lab Sample ID: MRL 570-753981/5**  
**Matrix: Water**  
**Analysis Batch: 753981**

**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	13.6		ug/L		136	50 - 150

  

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

# QC Sample Results

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 570-750350/1-A**  
**Matrix: Water**  
**Analysis Batch: 753970**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 750350**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/07/26 09:28	06/14/26 12:57	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/07/26 09:28	06/14/26 12:57	1
C8-C18	<25		25	ug/L		06/07/26 09:28	06/14/26 12:57	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	110		60 - 130			06/07/26 09:28	06/14/26 12:57	1

**Lab Sample ID: LCS 570-750350/2-A**  
**Matrix: Water**  
**Analysis Batch: 753970**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 750350**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
C10-C28	1600	1690		ug/L		105	56 - 127		
Surrogate	LCS LCS		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	110		60 - 130						

**Lab Sample ID: LCSD 570-750350/3-A**  
**Matrix: Water**  
**Analysis Batch: 753970**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 750350**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
C10-C28	1600	1420		ug/L		89	56 - 127	17	23
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	97		60 - 130						

**Lab Sample ID: MRL 570-750350/4-A**  
**Matrix: Water**  
**Analysis Batch: 753970**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 750350**

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
C10-C28	0.0200	<0.020		mg/L		97	50 - 150		
Surrogate	MRL MRL		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	79		60 - 130						

**Lab Sample ID: 380-217956-J-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 753970**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 750350**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits	RPD	Limit
				Result	Qualifier						
C10-C28	<26		1620	1770		ug/L		109	70 - 130		
Surrogate	MS MS		Limits								
	%Recovery	Qualifier									
<i>n-Octacosane (Surr)</i>	110		60 - 130								

# QC Sample Results

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

Job ID: 380-217656-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217956-K-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 753970**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 750350**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1620	1780		ug/L		109	70 - 130	0	20
<b>Surrogate</b>		<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>		114		60 - 130							

- 1
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- 16

# QC Association Summary

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## GC/MS Semi VOA

### Prep Batch: 232074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	525.2	
MB 380-232074/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-232074/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-232074/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-217333-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-217546-H-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 232383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	525.2	232074
MB 380-232074/21-A	Method Blank	Total/NA	Water	525.2	232074
LCS 380-232074/23-A	Lab Control Sample	Total/NA	Water	525.2	232074
MRL 380-232074/22-A	Lab Control Sample	Total/NA	Water	525.2	232074
380-217333-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	232074
380-217546-H-1-A DU	Duplicate	Total/NA	Water	525.2	232074

### Prep Batch: 750843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	625.1	
MB 570-750843/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-750843/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-750843/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 751912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	625.1 SIM	750843
MB 570-750843/1-A	Method Blank	Total/NA	Water	625.1 SIM	750843
LCS 570-750843/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	750843
LCSD 570-750843/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	750843

### Analysis Batch: 753197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	625.1	750843
MB 570-750843/1-A	Method Blank	Total/NA	Water	625.1	750843

## GC VOA

### Analysis Batch: 753981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	8015B GRO LL	
380-217656-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-753981/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-753981/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-753981/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-753981/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 750350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	3510C	
MB 570-750350/1-A	Method Blank	Total/NA	Water	3510C	

Eurofins Pomona

# QC Association Summary

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

Job ID: 380-217656-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

## GC Semi VOA (Continued)

### Prep Batch: 750350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-750350/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-750350/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-750350/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-217956-J-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-217956-K-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 753970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-217656-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	8015B	750350
MB 570-750350/1-A	Method Blank	Total/NA	Water	8015B	750350
LCS 570-750350/2-A	Lab Control Sample	Total/NA	Water	8015B	750350
LCSD 570-750350/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	750350
MRL 570-750350/4-A	Lab Control Sample	Total/NA	Water	8015B	750350
380-217956-J-1-A MS	Matrix Spike	Total/NA	Water	8015B	750350
380-217956-K-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	750350

# Lab Chronicle

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

Job ID: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-217656-1**

**Date Collected: 06/02/26 09:30**

**Matrix: Drinking Water**

**Date Received: 06/03/26 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			232074	OTM3	EA POM	06/06/26 07:52
Total/NA	Analysis	525.2		1	232383	Q8LA	EA POM	06/08/26 19:27
Total/NA	Prep	625.1			750843	KLZQ	EET CAL 4	06/08/26 12:55
Total/NA	Analysis	625.1		1	753197	J7WE	EET CAL 4	06/12/26 14:44
Total/NA	Prep	625.1			750843	KLZQ	EET CAL 4	06/08/26 12:55
Total/NA	Analysis	625.1 SIM		1	751912	PQS1	EET CAL 4	06/10/26 11:04
Total/NA	Analysis	8015B GRO LL		1	753981	YD9V	EET CAL 4	06/14/26 16:11
Total/NA	Prep	3510C			750350	TVD6	EET CAL 4	06/07/26 09:31
Total/NA	Analysis	8015B		1	753970	H6FE	EET CAL 4	06/14/26 22:11

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

**Lab Sample ID: 380-217656-2**

**Date Collected: 06/02/26 09:30**

**Matrix: Water**

**Date Received: 06/03/26 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	753981	YD9V	EET CAL 4	06/14/26 20:26

**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: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26 *
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. This list may include analytes for which the agency does not offer certification:			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

## Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
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.

Eurofins Pomona

# Accreditation/Certification Summary

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

Job ID: 380-217656-1  
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	06-15-26
Oregon	NELAP	4175	02-02-27
USDA	US Federal Programs	525-23-159-97150	09-30-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

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# Method Summary

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

Job ID: 380-217656-1  
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: 380-217656-1  
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-217656-1	HALAWA SHAFT VIEWING POOL	Drinking Water	06/02/26 09:30	06/03/26 10:05	Hawaii
380-217656-2	TB: HALAWA SHAFT VIEWING POOL	Water	06/02/26 09:30	06/03/26 10:05	Hawaii

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<b>Client Information</b>	Client Contact: <b>Kai Edison</b>	Sampler: <b>Kai Edison</b>	Lab PM: <b>Lopez, Maria</b>	Carrier Tracking No(s):	COC No:
	Phone: <b>+1 808 748 5840</b>		E-Mail: <b>Maria.Lopez@el.eurofins.com</b>	State of Origin:	Page: <b>Page 1 of 1</b>
	Kirk Iwamoto				Job #:
Company:	City & County of Honolulu	PWSID:			

Address:	630 South Beretania Street, Chemistry Lab	Due Date Requested:	
City:	Honolulu	TAT Requested (days):	<b>RUSH</b>
State, Zip:	HI, 96843	Compliance Project:	<b>A No</b>
Phone:	808-748-5840 (tel)	PO #:	C20525101 exp 05312023
Email:	<a href="mailto:kiwatoto@haws.org">kiwatoto@haws.org</a>	WO #:	
Project Name:	REA-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill	Project #:	38001111
Site:		SSOW#:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)		Analysis Requested		Total Number of containers	Special Instructions/Note:
					Y	Z	537.1_DW_PREC - 537.1 Full List	533 - All Analytes		
HALAWA SHAFT VIEWING POOL	2-Jun-2026	4:30	G	Water						
FB HALAWA SHAFT VIEWING POOL	2-Jun-2026	4:30	G	Water						

**Possible Hazard Identification**

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (Specify)

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *Maria Lopez* Date/Time: *6/2/26 12:00* Company: HBWS

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

<b>Client Information</b>	Client Contact: <b>Kal Edison</b>	Lab P.M.: <b>Lopez, Maria</b>	Carrier Tracking No(s):	COC No:
	Phone: <b>+1 808 748 5840</b>	E-Mail: <b>Maria.Lopez@et.eurofins.com</b>	State of Origin:	Page: <b>Page 1 of 1</b>
	Company: <b>Kirk Iwamoto</b>	PWSID:	Job #:	
	City & County of Honolulu			

Address: <b>630 South Beretania Street Chemistry Lab</b>	Due Date Requested:	Analysis Requested	
City: <b>Honolulu</b>	TAT Requested (days):	<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No)	Preservation Codes: R - NaTHSO4 RA - NaH2O/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate
State, Zip: <b>HI, 96843</b>	Compliance Project: <b>Δ Yes Δ No</b>	<input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)	Other:
Phone: <b>808-748-5840 (Tel)</b>	PO #: <b>C20525101 exp 05312023</b>	<b>625.1, 625.1_SIM</b>	
Email: <b>kiwamoto@hbws.org</b>	W/O #:	<b>8015B_GRO_LL - (MOD) GRO</b>	
Project Name: <b>RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill</b>	Project #: <b>38001111</b>	<b>8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18</b>	
Site: <b>Hawaii</b>	SSOW#:	<b>525.2_PREC - (MOD) 525plus Plus TICs</b>	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (liq-wat, solid, over-stadl, br-tissue, A/A)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
HALAWA SHAFT VIEWING POOL	2-Jun-2026	9:30	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
TB: HALAWA SHAFT VIEWING POOL	2-Jun-2026	1:30	G	Water					

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *Rai Edison* Date/Time: *6/2/26 12:00* Company: HBWS

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Custody Seal No.: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

Special Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements: \_\_\_\_\_

Received by:	Date/Time:	Company:
Received by:	Date/Time:	Company:
Received by:	Date/Time:	Company:



# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-217656-1  
SDG Number: Weekly: Halawa Shaft Viewing Pool

**Login Number: 217656**

**List Number: 1**

**Creator: Avila, Ivan**

**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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-217656-1  
SDG Number: Weekly: Halawa Shaft Viewing Pool

**Login Number: 217656**  
**List Number: 2**  
**Creator: Ferreira, Bruno**

**List Source: Eurofins Calscience**  
**List Creation: 06/04/26 04:50 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acct. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	