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# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
630 South Beretania Street  
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## JOB DESCRIPTION

RED-HILL  
Weekly: Halawa Shaft Viewing Pool

## JOB NUMBER

380-219281-1

# 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: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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: 380-219281-1

**Job ID: 380-219281-1**

**Eurofins Pomona**

## Job Narrative 380-219281-1

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 6/11/2026 10:00 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 3.6°C.

### Receipt Exceptions

One or more containers for the following sample(s) was received broken or leaking: Received 1 of 2 8015B DRO sample broken, enough volume remained for analysis. (XWB4)

Halawa Shaft Viewing Pool (380-219281-1) and TB: Halawa Shaft Viewing Pool (380-219281-2).

### GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-753881.

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 (MS/MSD) associated with preparation batch 570-753881.

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

### Gasoline Range Organics

Method 8015B GRO LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-757721. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

### Diesel Range Organics

Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-753329. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method: 8015 DRO

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: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-1**

No Detections.

**Client Sample ID: TB: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-1**

Date Collected: 06/09/26 09:25

Matrix: Water

Date Received: 06/11/26 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
2,4'-DDD	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
2,4'-DDE	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
2,4'-DDT	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
4,4'-DDD	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
4,4'-DDE	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
4,4'-DDT	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Acenaphthene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Acenaphthylene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Acetochlor	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Alachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
alpha-BHC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
alpha-Chlordane	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Anthracene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 16:00	1
Atrazine	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 16:00	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 16:00	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 16:00	1
beta-BHC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/16/26 14:23	06/17/26 16:00	1
Bromacil	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Butachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/16/26 14:23	06/17/26 16:00	1
Chlorobenzilate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Chloroneb	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Chlorpyrifos	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Chrysene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 16:00	1
delta-BHC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/16/26 14:23	06/17/26 16:00	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Dieldrin	<0.0098		0.0098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Diethylphthalate	<0.49		0.49	ug/L		06/16/26 14:23	06/17/26 16:00	1
Dimethylphthalate	<0.49		0.49	ug/L		06/16/26 14:23	06/17/26 16:00	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/16/26 14:23	06/17/26 16:00	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Endrin	<0.0098	^3+ *+ ^+	0.0098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Endrin aldehyde	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
EPTC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Fluoranthene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1

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# Client Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-1**

Date Collected: 06/09/26 09:25

Matrix: Water

Date Received: 06/11/26 10:00

**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		06/16/26 14:23	06/17/26 16:00	1
gamma-Chlordane	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Heptachlor	<0.0098	^3+	0.0098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Isophorone	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Lindane	<0.0098		0.0098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Malathion	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Methoxychlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Metolachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Molinate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Naphthalene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Parathion	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Phenanthrene	<0.039		0.039	ug/L		06/16/26 14:23	06/17/26 16:00	1
Propachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Pyrene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Simazine	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Terbacil	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Terbutylazine	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Thiobencarb	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/16/26 14:23	06/17/26 16:00	1
trans-Nonachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 16:00	1
Trifluralin	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 16:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/16/26 14:23	06/17/26 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	06/16/26 14:23	06/17/26 16:00	1
Perylene-d12	93		70 - 130	06/16/26 14:23	06/17/26 16:00	1
Triphenylphosphate	103		70 - 130	06/16/26 14:23	06/17/26 16:00	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		06/13/26 16:02	06/17/26 15:11	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Acenaphthene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Acenaphthylene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Anthracene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Chrysene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Fluoranthene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1

Eurofins Pomona

# Client Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-1**

Date Collected: 06/09/26 09:25

Matrix: Water

Date Received: 06/11/26 10:00

**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		06/13/26 16:02	06/17/26 15:11	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Naphthalene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Phenanthrene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1
Pyrene	<0.19		0.19	ug/L		06/13/26 16:02	06/17/26 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	06/13/26 16:02	06/17/26 15:11	1
2-Fluorobiphenyl (Surr)	82		31 - 120	06/13/26 16:02	06/17/26 15:11	1
2-Fluorophenol (Surr)	55		17 - 120	06/13/26 16:02	06/17/26 15:11	1
Nitrobenzene-d5 (Surr)	83		27 - 120	06/13/26 16:02	06/17/26 15:11	1
Phenol-d6 (Surr)	34		10 - 120	06/13/26 16:02	06/17/26 15:11	1
p-Terphenyl-d14 (Surr)	82		45 - 120	06/13/26 16:02	06/17/26 15:11	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	06/13/26 16:02	06/17/26 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		33 - 139	06/13/26 16:02	06/17/26 14:17	1
2-Fluorobiphenyl (Surr)	73		33 - 126	06/13/26 16:02	06/17/26 14:17	1
2-Fluorophenol (Surr)	55		12 - 120	06/13/26 16:02	06/17/26 14:17	1
Nitrobenzene-d5 (Surr)	94		36 - 120	06/13/26 16:02	06/17/26 14:17	1
Phenol-d6 (Surr)	32		10 - 120	06/13/26 16:02	06/17/26 14:17	1
p-Terphenyl-d14 (Surr)	79		47 - 131	06/13/26 16:02	06/17/26 14:17	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			06/22/26 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		06/22/26 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/12/26 10:40	06/22/26 01:48	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/12/26 10:40	06/22/26 01:48	1
C8-C18	<25		25	ug/L		06/12/26 10:40	06/22/26 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	80		60 - 130	06/12/26 10:40	06/22/26 01:48	1

**Client Sample ID: TB: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-2**

Date Collected: 06/09/26 09:25

Matrix: Water

Date Received: 06/11/26 10:00

**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			06/22/26 13:01	1

# Client Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: TB: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-2**

**Date Collected: 06/09/26 09:25**

**Matrix: Water**

**Date Received: 06/11/26 10:00**

<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)	101		38 - 134		06/22/26 13:01	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: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

**Client Sample ID: Halawa Shaft Viewing Pool**

**Lab Sample ID: 380-219281-1**

## Compliance Check

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

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

# Surrogate Summary

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

Job ID: 380-219281-1  
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)
380-219281-1	Halawa Shaft Viewing Pool	102	93	103
380-219743-B-1-A MS	Matrix Spike	101	94	103
380-219743-B-2-A DU	Duplicate	102	94	98
LCS 380-234215/23-A	Lab Control Sample	102	95	103
MB 380-234215/21-A	Method Blank	102	89	97
MRL 380-234215/22-A	Lab Control Sample	101	95	103

**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)
380-219281-1	Halawa Shaft Viewing Pool	71	73	55	94	32	79
MB 570-753881/1-A	Method Blank	41	41	22	36	16	60

**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)
380-219281-1	Halawa Shaft Viewing Pool	84	82	55	83	34	82
380-219283-A-3-A MS	Matrix Spike	92	75	52	65	36	56
380-219283-A-3-B MSD	Matrix Spike Duplicate	95	78	54	66	38	59
LCS 570-753881/2-A	Lab Control Sample	89	81	63	70	42	91
LCSD 570-753881/3-A	Lab Control Sample Dup	90	81	61	70	40	90
MB 570-753881/1-A	Method Blank	54	43	23	29	18	67

**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: 380-219281-1  
 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)
380-219281-1	Halawa Shaft Viewing Pool	98
380-219281-2	TB: Halawa Shaft Viewing Pool	101
LCS 570-757721/3	Lab Control Sample	78
LCSD 570-757721/4	Lab Control Sample Dup	99
MB 570-757721/6	Method Blank	87
MRL 570-757721/5	Lab Control Sample	96

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-219281-1	Halawa Shaft Viewing Pool	80
LCS 570-753329/2-A	Lab Control Sample	95
LCSD 570-753329/3-A	Lab Control Sample Dup	80
MB 570-753329/1-A	Method Blank	89
MRL 570-753329/4-A	Lab Control Sample	85

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-219281-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 380-234215/21-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
2,4'-DDD	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
2,4'-DDE	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
2,4'-DDT	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
4,4'-DDD	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
4,4'-DDE	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
4,4'-DDT	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Acenaphthene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Acenaphthylene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Acetochlor	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Alachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
alpha-BHC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
alpha-Chlordane	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Anthracene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 12:34	1
Atrazine	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 12:34	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 12:34	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 12:34	1
beta-BHC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/16/26 14:23	06/17/26 12:34	1
Bromacil	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Butachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/16/26 14:23	06/17/26 12:34	1
Chlorobenzilate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Chloroneb	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Chlorpyrifos	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Chrysene	<0.020		0.020	ug/L		06/16/26 14:23	06/17/26 12:34	1
delta-BHC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/16/26 14:23	06/17/26 12:34	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Dieldrin	<0.0098		0.0098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Diethylphthalate	<0.49		0.49	ug/L		06/16/26 14:23	06/17/26 12:34	1
Dimethylphthalate	<0.49		0.49	ug/L		06/16/26 14:23	06/17/26 12:34	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/16/26 14:23	06/17/26 12:34	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Endrin	<0.0098	^3+	0.0098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Endrin aldehyde	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
EPTC	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 380-234215/21-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Fluorene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
gamma-Chlordane	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Heptachlor	<0.0098	^3+	0.0098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Isophorone	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Lindane	<0.0098		0.0098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Malathion	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Methoxychlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Metolachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Molinate	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Naphthalene	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Parathion	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Phenanthrene	<0.039		0.039	ug/L		06/16/26 14:23	06/17/26 12:34	1
Propachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Pyrene	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Simazine	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Terbacil	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Terbutylazine	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Thiobencarb	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/16/26 14:23	06/17/26 12:34	1
trans-Nonachlor	<0.049		0.049	ug/L		06/16/26 14:23	06/17/26 12:34	1
Trifluralin	<0.098		0.098	ug/L		06/16/26 14:23	06/17/26 12:34	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Pentadecane, 7-methyl-	1.58	T J N	ug/L		3.11	6165-40-8	06/16/26 14:23	06/17/26 12:34	1
Undecane	6.37	T J N	ug/L		3.24	1120-21-4	06/16/26 14:23	06/17/26 12:34	1
Cyclopentasiloxane, decamethyl-	0.696	T J N	ug/L		3.37	541-02-6	06/16/26 14:23	06/17/26 12:34	1
Unknown	1.30	T J	ug/L		4.00	N/A	06/16/26 14:23	06/17/26 12:34	1
9-Octadecenamide, (Z)-	1.51	T J N	ug/L		8.10	301-02-0	06/16/26 14:23	06/17/26 12:34	1
9-Octadecenamide, (Z)-	0.727	T J N	ug/L		10.69	301-02-0	06/16/26 14:23	06/17/26 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	06/16/26 14:23	06/17/26 12:34	1
Perylene-d12	89		70 - 130	06/16/26 14:23	06/17/26 12:34	1
Triphenylphosphate	97		70 - 130	06/16/26 14:23	06/17/26 12:34	1

**Lab Sample ID: LCS 380-234215/23-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.97	2.02		ug/L		103	70 - 130
2,4'-DDD	1.97	2.08		ug/L		105	70 - 130

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# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 380-234215/23-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.97	2.16		ug/L		110	70 - 130
2,4'-DDT	1.97	2.39		ug/L		122	70 - 130
2,4-Dinitrotoluene	1.97	2.38		ug/L		121	70 - 130
2,6-Dinitrotoluene	1.97	2.29		ug/L		116	70 - 130
2-Methylnaphthalene	1.97	2.01		ug/L		102	70 - 130
4,4'-DDD	1.97	2.03		ug/L		103	70 - 130
4,4'-DDE	1.97	1.99		ug/L		101	70 - 130
4,4'-DDT	1.97	2.44		ug/L		124	70 - 130
Acenaphthene	1.97	1.99		ug/L		101	70 - 130
Acenaphthylene	1.97	1.80		ug/L		92	70 - 130
Acetochlor	1.97	2.12		ug/L		108	70 - 130
Alachlor	1.97	2.11		ug/L		107	70 - 130
alpha-BHC	1.97	2.02		ug/L		103	70 - 130
alpha-Chlordane	1.97	2.05		ug/L		104	70 - 130
Anthracene	1.97	1.92		ug/L		97	70 - 130
Atrazine	1.97	2.14		ug/L		109	70 - 130
Benz(a)anthracene	1.97	2.07		ug/L		105	70 - 130
Benzo[a]pyrene	1.97	1.96		ug/L		99	70 - 130
Benzo[b]fluoranthene	1.97	1.97		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.97	2.04		ug/L		104	70 - 130
Benzo[k]fluoranthene	1.97	2.01		ug/L		102	70 - 130
beta-BHC	1.97	2.07		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.88		ug/L		95	70 - 130
Bromacil	1.97	2.17		ug/L		110	70 - 130
Butachlor	1.97	2.16		ug/L		109	70 - 130
Butylbenzylphthalate	1.97	2.14		ug/L		109	70 - 130
Chlorobenzilate	1.97	2.31		ug/L		117	70 - 130
Chloroneb	1.97	2.04		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.15		ug/L		109	70 - 130
Chlorpyrifos	1.97	2.15		ug/L		109	70 - 130
Chrysene	1.97	2.11		ug/L		107	70 - 130
delta-BHC	1.97	2.05		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.14		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.97	2.00		ug/L		101	70 - 130
Diclorvos (DDVP)	1.97	2.12		ug/L		108	70 - 130
Dieldrin	1.97	2.04		ug/L		104	70 - 130
Diethylphthalate	1.97	2.22		ug/L		113	70 - 130
Dimethylphthalate	1.97	2.11		ug/L		107	70 - 130
Di-n-butyl phthalate	3.94	3.98		ug/L		101	70 - 130
Di-n-octyl phthalate	1.97	1.88		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.97	1.97		ug/L		100	70 - 130
Endosulfan II (Beta)	1.97	2.03		ug/L		103	70 - 130
Endosulfan sulfate	1.97	2.16		ug/L		110	70 - 130
Endrin	1.97	2.60	*+	ug/L		132	70 - 130
Endrin aldehyde	1.97	2.09		ug/L		106	60 - 130
EPTC	1.97	2.17		ug/L		110	70 - 130
Fluoranthene	1.97	2.11		ug/L		107	70 - 130
Fluorene	1.97	2.11		ug/L		107	70 - 130
gamma-Chlordane	1.97	2.10		ug/L		107	70 - 130

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# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 380-234215/23-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.97	2.39		ug/L		121	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.10		ug/L		107	70 - 130
Hexachlorobenzene	1.97	2.12		ug/L		108	70 - 130
Hexachlorocyclopentadiene	1.97	2.16		ug/L		110	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.98		ug/L		101	70 - 130
Isophorone	1.97	1.95		ug/L		99	70 - 130
Lindane	1.97	2.16		ug/L		110	70 - 130
Malathion	1.97	2.15		ug/L		109	70 - 130
Methoxychlor	1.97	2.34		ug/L		119	70 - 130
Metolachlor	1.97	2.13		ug/L		108	70 - 130
Molinate	1.97	2.22		ug/L		113	70 - 130
Naphthalene	1.97	2.00		ug/L		101	70 - 130
Parathion	1.97	2.45		ug/L		124	70 - 130
Pendimethalin (Penoxaline)	1.97	2.51		ug/L		127	70 - 130
Phenanthrene	1.97	2.01		ug/L		102	70 - 130
Propachlor	1.97	2.31		ug/L		117	70 - 130
Pyrene	1.97	2.14		ug/L		109	70 - 130
Simazine	1.97	2.03		ug/L		103	70 - 130
Terbacil	1.97	2.43		ug/L		123	70 - 130
Terbutylazine	1.97	2.12		ug/L		108	70 - 130
Thiobencarb	1.97	2.02		ug/L		102	70 - 130
trans-Nonachlor	1.97	2.01		ug/L		102	70 - 130
Trifluralin	1.97	2.28		ug/L		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	103		70 - 130

**Lab Sample ID: MRL 380-234215/22-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.109		ug/L		111	50 - 150
2,4'-DDD	0.0983	0.102		ug/L		104	50 - 150
2,4'-DDE	0.0983	0.103		ug/L		105	50 - 150
2,4'-DDT	0.0983	0.141		ug/L		143	50 - 150
2,4-Dinitrotoluene	0.0983	0.136		ug/L		139	50 - 150
2,6-Dinitrotoluene	0.0983	0.136		ug/L		138	50 - 150
2-Methylnaphthalene	0.0983	0.109		ug/L		111	50 - 150
4,4'-DDD	0.0983	0.112		ug/L		114	50 - 150
4,4'-DDE	0.0983	0.109		ug/L		111	50 - 150
4,4'-DDT	0.0983	0.139		ug/L		141	50 - 150
Acenaphthene	0.0983	0.101		ug/L		103	50 - 150
Acenaphthylene	0.0983	0.0995		ug/L		101	50 - 150
Acetochlor	0.0983	0.128		ug/L		130	50 - 150
Alachlor	0.0491	0.0606		ug/L		123	50 - 150

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MRL 380-234215/22-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0983	0.105		ug/L		107	50 - 150
alpha-Chlordane	0.0246	0.0297	J	ug/L		121	50 - 150
Anthracene	0.0197	0.0213		ug/L		109	50 - 150
Atrazine	0.0491	0.0586		ug/L		119	50 - 150
Benz(a)anthracene	0.0491	0.0517		ug/L		105	50 - 150
Benzo[a]pyrene	0.0197	0.0233		ug/L		118	50 - 150
Benzo[b]fluoranthene	0.0197	0.0235		ug/L		119	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0539		ug/L		110	50 - 150
Benzo[k]fluoranthene	0.0197	0.0243		ug/L		124	50 - 150
beta-BHC	0.0983	0.108		ug/L		110	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.573	J	ug/L		97	50 - 150
Bromacil	0.0983	0.142		ug/L		145	50 - 150
Butachlor	0.0491	0.0669		ug/L		136	50 - 150
Butylbenzylphthalate	0.491	0.560		ug/L		114	50 - 150
Chlorobenzilate	0.0983	0.137		ug/L		139	50 - 150
Chloroneb	0.0983	0.103		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.123		ug/L		125	50 - 150
Chlorpyrifos	0.0491	0.0594		ug/L		121	50 - 150
Chrysene	0.0197	0.0232		ug/L		118	50 - 150
delta-BHC	0.0983	0.101		ug/L		103	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.663		ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0538		ug/L		110	50 - 150
Diclorvos (DDVP)	0.0491	0.0541		ug/L		110	50 - 150
Dieldrin	0.00983	0.0139		ug/L		141	50 - 150
Diethylphthalate	0.491	0.588		ug/L		120	50 - 150
Dimethylphthalate	0.491	0.555		ug/L		113	50 - 150
Di-n-butyl phthalate	0.491	0.548	J	ug/L		112	49 - 243
Di-n-octyl phthalate	0.0983	0.0996		ug/L		101	50 - 150
Endosulfan I (Alpha)	0.0983	0.0884	J	ug/L		90	50 - 150
Endosulfan II (Beta)	0.0983	0.106		ug/L		108	50 - 150
Endosulfan sulfate	0.0983	0.120		ug/L		122	50 - 150
Endrin	0.00983	0.0155	^3+	ug/L		158	50 - 150
Endrin aldehyde	0.0983	0.120		ug/L		122	50 - 150
EPTC	0.0983	0.110		ug/L		112	50 - 150
Fluoranthene	0.0983	0.100		ug/L		102	50 - 150
Fluorene	0.0491	0.0552		ug/L		112	50 - 150
gamma-Chlordane	0.0246	0.0279	J	ug/L		113	50 - 150
Heptachlor	0.00983	0.0177	^3+	ug/L		180	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.0143		ug/L		145	50 - 150
Hexachlorobenzene	0.0491	0.0524		ug/L		107	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0571		ug/L		116	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0536		ug/L		109	50 - 150
Isophorone	0.0983	0.0995		ug/L		101	50 - 150
Lindane	0.00983	0.0146		ug/L		149	50 - 150
Malathion	0.0983	0.130		ug/L		133	50 - 150
Methoxychlor	0.0491	0.0694		ug/L		141	50 - 150
Metolachlor	0.0491	0.0640		ug/L		130	50 - 150
Molinate	0.0983	0.112		ug/L		114	50 - 150
Naphthalene	0.0983	0.107		ug/L		109	50 - 150

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MRL 380-234215/22-A**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0983	0.113		ug/L		115	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.133		ug/L		135	50 - 150
Phenanthrene	0.0393	0.0425		ug/L		108	50 - 150
Propachlor	0.0491	0.0577		ug/L		117	50 - 150
Pyrene	0.0491	0.0498		ug/L		101	50 - 150
Simazine	0.0491	0.0528		ug/L		107	50 - 150
Terbacil	0.0983	0.127		ug/L		130	50 - 150
Terbutylazine	0.0983	0.115		ug/L		117	50 - 150
Thiobencarb	0.0983	0.111		ug/L		113	50 - 150
trans-Nonachlor	0.0246	0.0309	J	ug/L		126	50 - 150
Trifluralin	0.0983	0.133		ug/L		136	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	103		70 - 130

**Lab Sample ID: 380-219743-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	1.99		ug/L		101	70 - 130
2,4'-DDD	<0.098		1.96	2.01		ug/L		103	70 - 130
2,4'-DDE	<0.098		1.96	2.03		ug/L		104	70 - 130
2,4'-DDT	<0.098		1.96	2.19		ug/L		112	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	2.43		ug/L		124	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.33		ug/L		119	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.96	1.97		ug/L		101	70 - 130
4,4'-DDE	<0.098		1.96	1.81		ug/L		92	70 - 130
4,4'-DDT	<0.098		1.96	2.17		ug/L		111	70 - 130
Acenaphthene	<0.098		1.96	1.98		ug/L		101	70 - 130
Acenaphthylene	<0.098		1.96	1.82		ug/L		93	70 - 130
Acetochlor	<0.098		1.96	2.15		ug/L		110	70 - 130
Alachlor	<0.049		1.96	2.10		ug/L		107	70 - 130
alpha-BHC	<0.098		1.96	2.00		ug/L		102	70 - 130
alpha-Chlordane	<0.049		1.96	2.03		ug/L		103	70 - 130
Anthracene	<0.020		1.96	1.82		ug/L		93	70 - 130
Atrazine	<0.049		1.96	2.13		ug/L		109	70 - 130
Benz(a)anthracene	<0.049		1.96	1.96		ug/L		100	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.89		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	1.99		ug/L		102	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.87		ug/L		96	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	1.92		ug/L		98	70 - 130
beta-BHC	<0.098		1.96	2.02		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.55		ug/L		79	70 - 130
Bromacil	<0.098		1.96	2.24		ug/L		115	70 - 130

# QC Sample Results

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

Job ID: 380-219281-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-219743-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	<0.049		1.96	2.17		ug/L		111	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.10		ug/L		108	70 - 130
Chlorobenzilate	<0.098		1.96	2.29		ug/L		117	70 - 130
Chloroneb	<0.098		1.96	2.05		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.16		ug/L		111	70 - 130
Chlorpyrifos	<0.049		1.96	2.10		ug/L		107	70 - 130
Chrysene	<0.020		1.96	2.06		ug/L		105	70 - 130
delta-BHC	<0.098		1.96	1.99		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	1.73		ug/L		88	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.78		ug/L		91	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.13		ug/L		109	70 - 130
Dieldrin	0.077		1.96	2.10		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.96	2.21		ug/L		113	70 - 130
Dimethylphthalate	<0.49		1.96	2.10		ug/L		108	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.05		ug/L		103	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.53		ug/L		78	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	1.96		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.03		ug/L		104	70 - 130
Endosulfan sulfate	<0.098		1.96	2.16		ug/L		110	70 - 130
Endrin	<0.0098	^3+ F1 *+ ^+	1.96	2.69	F1	ug/L		138	70 - 130
Endrin aldehyde	<0.098		1.96	1.74		ug/L		89	60 - 130
EPTC	<0.098		1.96	2.16		ug/L		110	70 - 130
Fluoranthene	<0.098		1.96	2.10		ug/L		107	70 - 130
Fluorene	<0.049		1.96	2.09		ug/L		107	70 - 130
gamma-Chlordane	<0.049		1.96	2.07		ug/L		105	70 - 130
Heptachlor	<0.0098	^3+	1.96	2.39		ug/L		122	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	2.10		ug/L		107	70 - 130
Hexachlorobenzene	<0.049		1.96	2.13		ug/L		109	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.17		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.89		ug/L		97	70 - 130
Isophorone	<0.098		1.96	1.97		ug/L		101	70 - 130
Lindane	<0.0098		1.96	2.16		ug/L		110	70 - 130
Malathion	<0.098		1.96	2.15		ug/L		110	70 - 130
Methoxychlor	<0.049		1.96	2.49		ug/L		127	70 - 130
Metolachlor	<0.049		1.96	2.13		ug/L		109	70 - 130
Molinate	<0.098		1.96	2.21		ug/L		113	70 - 130
Naphthalene	<0.098		1.96	1.99		ug/L		102	70 - 130
Parathion	<0.098		1.96	2.45		ug/L		125	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.53		ug/L		129	70 - 130
Phenanthrene	<0.039		1.96	1.99		ug/L		102	70 - 130
Propachlor	<0.049		1.96	2.31		ug/L		118	70 - 130
Pyrene	<0.049		1.96	2.12		ug/L		109	70 - 130
Simazine	<0.049		1.96	2.03		ug/L		104	70 - 130
Terbacil	<0.098		1.96	2.46		ug/L		126	70 - 130
Terbutylazine	<0.098		1.96	2.11		ug/L		108	70 - 130
Thiobencarb	<0.098		1.96	2.01		ug/L		103	70 - 130
trans-Nonachlor	<0.049		1.96	1.93		ug/L		99	70 - 130
Trifluralin	<0.098		1.96	2.31		ug/L		118	70 - 130

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
2-Nitro- <i>m</i> -xylene	101		70 - 130
Perylene- <i>d</i> 12	94		70 - 130
Triphenylphosphate	103		70 - 130

**Lab Sample ID: 380-219743-B-2-A DU**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<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	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<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	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<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	<0.098		<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	0.086		0.0860		ug/L		0.4	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: 380-219743-B-2-A DU**  
**Matrix: Water**  
**Analysis Batch: 234420**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 234215**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098	^3+ *+ ^+	<0.0098	*+	ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<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	<0.0098	^3+	<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<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	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<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	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<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	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<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	<0.098		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	98		70 - 130

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

**Lab Sample ID: MB 570-753881/1-A**  
**Matrix: Water**  
**Analysis Batch: 755484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

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	06/13/26 16:02	06/17/26 10:56	1

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# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: MB 570-753881/1-A**  
**Matrix: Water**  
**Analysis Batch: 755484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	41		33 - 139	06/13/26 16:02	06/17/26 10:56	1
2-Fluorobiphenyl (Surr)	41		33 - 126	06/13/26 16:02	06/17/26 10:56	1
2-Fluorophenol (Surr)	22		12 - 120	06/13/26 16:02	06/17/26 10:56	1
Nitrobenzene-d5 (Surr)	36		36 - 120	06/13/26 16:02	06/17/26 10:56	1
Phenol-d6 (Surr)	16		10 - 120	06/13/26 16:02	06/17/26 10:56	1
p-Terphenyl-d14 (Surr)	60		47 - 131	06/13/26 16:02	06/17/26 10:56	1

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

**Lab Sample ID: MB 570-753881/1-A**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L	D	06/13/26 16:02	06/17/26 02:28	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Acenaphthene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Acenaphthylene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Anthracene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Chrysene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Fluoranthene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Fluorene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Naphthalene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Phenanthrene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1
Pyrene	<0.20		0.20	ug/L		06/13/26 16:02	06/17/26 02:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		28 - 127	06/13/26 16:02	06/17/26 02:28	1
2-Fluorobiphenyl (Surr)	43		31 - 120	06/13/26 16:02	06/17/26 02:28	1
2-Fluorophenol (Surr)	23		17 - 120	06/13/26 16:02	06/17/26 02:28	1
Nitrobenzene-d5 (Surr)	29		27 - 120	06/13/26 16:02	06/17/26 02:28	1
Phenol-d6 (Surr)	18		10 - 120	06/13/26 16:02	06/17/26 02:28	1
p-Terphenyl-d14 (Surr)	67		45 - 120	06/13/26 16:02	06/17/26 02:28	1

**Lab Sample ID: LCS 570-753881/2-A**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.7		ug/L		73	47 - 120
2-Methylnaphthalene	20.0	13.4		ug/L		67	43 - 120

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 570-753881/2-A**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	16.3		ug/L		82	60 - 132
Acenaphthylene	20.0	16.5		ug/L		83	54 - 126
Anthracene	20.0	16.5		ug/L		83	43 - 120
Benzo[a]anthracene	20.0	17.7		ug/L		89	42 - 133
Benzo[a]pyrene	20.0	17.2		ug/L		86	32 - 148
Benzo[b]fluoranthene	20.0	17.5		ug/L		88	42 - 140
Benzo[g,h,i]perylene	20.0	16.9		ug/L		84	1 - 195
Benzo[k]fluoranthene	20.0	17.4		ug/L		87	25 - 146
Chrysene	20.0	17.4		ug/L		87	44 - 140
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	1 - 200
Fluoranthene	20.0	17.3		ug/L		87	43 - 121
Fluorene	20.0	17.2		ug/L		86	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.1		ug/L		86	1 - 151
Naphthalene	20.0	13.4		ug/L		67	36 - 120
Phenanthrene	20.0	16.9		ug/L		84	65 - 120
Pyrene	20.0	18.3		ug/L		91	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

**Lab Sample ID: LCSD 570-753881/3-A**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.6		ug/L		73	47 - 120	0	20
2-Methylnaphthalene	20.0	13.5		ug/L		68	43 - 120	1	20
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	3	29
Acenaphthylene	20.0	17.2		ug/L		86	54 - 126	4	45
Anthracene	20.0	17.0		ug/L		85	43 - 120	3	40
Benzo[a]anthracene	20.0	18.0		ug/L		90	42 - 133	2	32
Benzo[a]pyrene	20.0	17.6		ug/L		88	32 - 148	2	43
Benzo[b]fluoranthene	20.0	17.4		ug/L		87	42 - 140	1	43
Benzo[g,h,i]perylene	20.0	17.3		ug/L		86	1 - 195	2	61
Benzo[k]fluoranthene	20.0	18.3		ug/L		91	25 - 146	5	38
Chrysene	20.0	17.7		ug/L		88	44 - 140	1	53
Dibenz(a,h)anthracene	20.0	18.2		ug/L		91	1 - 200	2	75
Fluoranthene	20.0	17.9		ug/L		90	43 - 121	3	40
Fluorene	20.0	17.6		ug/L		88	70 - 120	2	23
Indeno[1,2,3-cd]pyrene	20.0	17.6		ug/L		88	1 - 151	3	60
Naphthalene	20.0	13.5		ug/L		67	36 - 120	1	39
Phenanthrene	20.0	17.2		ug/L		86	65 - 120	2	24
Pyrene	20.0	18.2		ug/L		91	70 - 120	1	30

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# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCSD 570-753881/3-A**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

**Lab Sample ID: 380-219283-A-3-A MS**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	52		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	56		45 - 120

**Lab Sample ID: 380-219283-A-3-B MSD**  
**Matrix: Water**  
**Analysis Batch: 755136**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 753881**

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	95		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	59		45 - 120

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

**Lab Sample ID: MB 570-757721/6**  
**Matrix: Water**  
**Analysis Batch: 757721**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/22/26 11:36	1

  

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134		06/22/26 11:36	1

# QC Sample Results

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 570-757721/3**  
**Matrix: Water**  
**Analysis Batch: 757721**

**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	378		ug/L		94	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	78		38 - 134				

**Lab Sample ID: LCSD 570-757721/4**  
**Matrix: Water**  
**Analysis Batch: 757721**

**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	359		ug/L		90	78 - 120	5	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		38 - 134						

**Lab Sample ID: MRL 570-757721/5**  
**Matrix: Water**  
**Analysis Batch: 757721**

**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	11.8		ug/L		118	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		38 - 134				

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

**Lab Sample ID: MB 570-753329/1-A**  
**Matrix: Water**  
**Analysis Batch: 757614**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 753329**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/12/26 10:40	06/21/26 22:36	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/12/26 10:40	06/21/26 22:36	1
C8-C18	<25		25	ug/L		06/12/26 10:40	06/21/26 22:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	89		60 - 130	06/12/26 10:40	06/21/26 22:36	1		

**Lab Sample ID: LCS 570-753329/2-A**  
**Matrix: Water**  
**Analysis Batch: 757614**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 753329**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1980		ug/L		124	56 - 127

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# QC Sample Results

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

Job ID: 380-219281-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

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

**Lab Sample ID: LCS 570-753329/2-A**  
**Matrix: Water**  
**Analysis Batch: 757614**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 753329**

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

**Lab Sample ID: LCSD 570-753329/3-A**  
**Matrix: Water**  
**Analysis Batch: 757614**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 753329**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1730		ug/L	-	108	56 - 127	14	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>n-Octacosane (Surr)</i>	80		60 - 130

**Lab Sample ID: MRL 570-753329/4-A**  
**Matrix: Water**  
**Analysis Batch: 757614**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 753329**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0273		mg/L	-	137	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
<i>n-Octacosane (Surr)</i>	85		60 - 130

# QC Association Summary

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## GC/MS Semi VOA

### Prep Batch: 234215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-234215/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-234215/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-234215/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-219743-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-219743-B-2-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 234420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	234215
MB 380-234215/21-A	Method Blank	Total/NA	Water	525.2	234215
LCS 380-234215/23-A	Lab Control Sample	Total/NA	Water	525.2	234215
MRL 380-234215/22-A	Lab Control Sample	Total/NA	Water	525.2	234215
380-219743-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	234215
380-219743-B-2-A DU	Duplicate	Total/NA	Water	525.2	234215

### Prep Batch: 753881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-753881/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-753881/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-753881/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-219283-A-3-A MS	Matrix Spike	Total/NA	Water	625.1	
380-219283-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 755136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-753881/1-A	Method Blank	Total/NA	Water	625.1 SIM	753881
LCS 570-753881/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	753881
LCSD 570-753881/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	753881
380-219283-A-3-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	753881
380-219283-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	753881

### Analysis Batch: 755484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	753881
MB 570-753881/1-A	Method Blank	Total/NA	Water	625.1	753881

### Analysis Batch: 755651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	753881

## GC VOA

### Analysis Batch: 757721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-219281-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-757721/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-757721/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-757721/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

# QC Association Summary

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

Job ID: 380-219281-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

## GC VOA (Continued)

### Analysis Batch: 757721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-757721/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 753329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-753329/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-753329/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-753329/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-753329/4-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 757614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-219281-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	753329
MB 570-753329/1-A	Method Blank	Total/NA	Water	8015B	753329
LCS 570-753329/2-A	Lab Control Sample	Total/NA	Water	8015B	753329
LCSD 570-753329/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	753329
MRL 570-753329/4-A	Lab Control Sample	Total/NA	Water	8015B	753329



# Lab Chronicle

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

Job ID: 380-219281-1  
 SDG: Weekly: Halawa Shaft Viewing Pool

## Client Sample ID: Halawa Shaft Viewing Pool

## Lab Sample ID: 380-219281-1

Date Collected: 06/09/26 09:25

Matrix: Water

Date Received: 06/11/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			234215	IQ42	EA POM	06/16/26 14:23
Total/NA	Analysis	525.2		1	234420	Q8LA	EA POM	06/17/26 16:00
Total/NA	Prep	625.1			753881	TIZL	EET CAL 4	06/13/26 16:02
Total/NA	Analysis	625.1		1	755484	J7WE	EET CAL 4	06/17/26 14:17
Total/NA	Prep	625.1			753881	TIZL	EET CAL 4	06/13/26 16:02
Total/NA	Analysis	625.1 SIM		1	755651	J7WE	EET CAL 4	06/17/26 15:11
Total/NA	Analysis	8015B GRO LL		1	757721	A9VE	EET CAL 4	06/22/26 16:07
Total/NA	Prep	3510C			753329	EP2G	EET CAL 4	06/12/26 10:40
Total/NA	Analysis	8015B		1	757614	H6FE	EET CAL 4	06/22/26 01:48

## Client Sample ID: TB: Halawa Shaft Viewing Pool

## Lab Sample ID: 380-219281-2

Date Collected: 06/09/26 09:25

Matrix: Water

Date Received: 06/11/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	757721	A9VE	EET CAL 4	06/22/26 13:01

**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: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## Laboratory: Eurofins Pomona

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

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

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

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

Eurofins Pomona

# Accreditation/Certification Summary

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

Job ID: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-27
USDA	US Federal Programs	525-23-159-97150	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: 380-219281-1  
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: 380-219281-1  
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-219281-1	Halawa Shaft Viewing Pool	Water	06/09/26 09:25	06/11/26 10:00	Hawaii
380-219281-2	TB: Halawa Shaft Viewing Pool	Water	06/09/26 09:25	06/11/26 10:00	Hawaii

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**Chain of Custody Record**



EM/11/2020



380-219281 COC

<b>Client Information</b>		Lab PM: Arada, Rachelle		Carrier Tracking No(s): 390-28005-2757 1	
Client Contact: Mr Kirg Iwamoto		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 2	
Company: City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - NaZSO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		Total Number of Containers	
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Instructions/Note:	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Other	
Email: kiwamoto@hbws.org		WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111			
Site: Hawaii		SSOW#:			
<b>Sample Identification</b>		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (Residue, Swab, Dermal, Other)	Field Filtered Sample (Yes or No)
9-Jun-2026	0925	G	2	Water	525.1, 625.1, SIM
9-Jun-2026	1	G	2	Water	525.2, PREC - (MOD) 525plus Plus TICs
					533 - All Analytes
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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-219281-1  
SDG Number: Weekly: Halawa Shaft Viewing Pool

**Login Number: 219281**  
**List Number: 1**  
**Creator: Tran, Kristine**

**List Source: Eurofins Pomona**

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers received broken. No volume could be salvaged for analysis.
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-219281-1  
SDG Number: Weekly: Halawa Shaft Viewing Pool

**Login Number: 219281**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 06/11/26 06:52 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	