

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-235629-1

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: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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 Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-235629-1

Job ID: 380-235629-1

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Job Narrative 380-235629-1

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 9/10/2026 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 1.9°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-799328 and analytical batch 570-802031 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

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Detection Summary

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-1

☐ No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-1

Date Collected: 09/08/26 09:30

Matrix: Water

Date Received: 09/10/26 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
2,4'-DDD	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
2,4'-DDE	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
2,4'-DDT	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
2-Methylnaphthalene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
4,4'-DDD	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
4,4'-DDE	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
4,4'-DDT	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Acenaphthene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Acenaphthylene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Acetochlor	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Alachlor	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
alpha-BHC	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
alpha-Chlordane	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Anthracene	<0.019		0.019	ug/L		09/11/26 07:38	09/11/26 17:41	1
Atrazine	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Benz(a)anthracene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Benzo[a]pyrene	<0.019		0.019	ug/L		09/11/26 07:38	09/11/26 17:41	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		09/11/26 07:38	09/11/26 17:41	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		09/11/26 07:38	09/11/26 17:41	1
beta-BHC	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		09/11/26 07:38	09/11/26 17:41	1
Bromacil	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Butachlor	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Butylbenzylphthalate	<0.48		0.48	ug/L		09/11/26 07:38	09/11/26 17:41	1
Chlorobenzilate	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Chloroneb	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Chlorpyrifos	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Chrysene	<0.019		0.019	ug/L		09/11/26 07:38	09/11/26 17:41	1
delta-BHC	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		09/11/26 07:38	09/11/26 17:41	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Dieldrin	<0.0096		0.0096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Diethylphthalate	<0.48		0.48	ug/L		09/11/26 07:38	09/11/26 17:41	1
Dimethylphthalate	<0.48		0.48	ug/L		09/11/26 07:38	09/11/26 17:41	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		09/11/26 07:38	09/11/26 17:41	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Endosulfan sulfate	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Endrin	<0.0096		0.0096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Endrin aldehyde	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
EPTC	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Fluoranthene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1

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Client Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-1

Date Collected: 09/08/26 09:30

Matrix: Water

Date Received: 09/10/26 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		09/11/26 07:38	09/11/26 17:41	1
gamma-Chlordane	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Heptachlor	<0.0096		0.0096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Hexachlorobenzene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Isophorone	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Lindane	<0.0096		0.0096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Malathion	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Methoxychlor	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Metolachlor	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Molinate	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Naphthalene	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Parathion	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Phenanthrene	<0.039		0.039	ug/L		09/11/26 07:38	09/11/26 17:41	1
Propachlor	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Pyrene	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Simazine	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Terbacil	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Terbutylazine	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Thiobencarb	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		09/11/26 07:38	09/11/26 17:41	1
trans-Nonachlor	<0.048		0.048	ug/L		09/11/26 07:38	09/11/26 17:41	1
Trifluralin	<0.096		0.096	ug/L		09/11/26 07:38	09/11/26 17:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/11/26 07:38	09/11/26 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	09/11/26 07:38	09/11/26 17:41	1
Perylene-d12	90		70 - 130	09/11/26 07:38	09/11/26 17:41	1
Triphenylphosphate	109		70 - 130	09/11/26 07:38	09/11/26 17:41	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		09/11/26 19:46	09/15/26 00:28	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Acenaphthene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Acenaphthylene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Anthracene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Chrysene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Fluoranthene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1

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Client Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-1

Date Collected: 09/08/26 09:30

Matrix: Water

Date Received: 09/10/26 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		09/11/26 19:46	09/15/26 00:28	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Naphthalene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Phenanthrene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1
Pyrene	<0.19		0.19	ug/L		09/11/26 19:46	09/15/26 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	09/11/26 19:46	09/15/26 00:28	1
2-Fluorobiphenyl (Surr)	81		31 - 120	09/11/26 19:46	09/15/26 00:28	1
2-Fluorophenol (Surr)	48		17 - 120	09/11/26 19:46	09/15/26 00:28	1
Nitrobenzene-d5 (Surr)	83		27 - 120	09/11/26 19:46	09/15/26 00:28	1
Phenol-d6 (Surr)	28		10 - 120	09/11/26 19:46	09/15/26 00:28	1
p-Terphenyl-d14 (Surr)	83		45 - 120	09/11/26 19:46	09/15/26 00:28	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	09/11/26 19:46	09/17/26 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		33 - 139	09/11/26 19:46	09/17/26 15:49	1
2-Fluorobiphenyl (Surr)	83		33 - 126	09/11/26 19:46	09/17/26 15:49	1
2-Fluorophenol (Surr)	42		12 - 120	09/11/26 19:46	09/17/26 15:49	1
Nitrobenzene-d5 (Surr)	79		36 - 120	09/11/26 19:46	09/17/26 15:49	1
Phenol-d6 (Surr)	23		10 - 120	09/11/26 19:46	09/17/26 15:49	1
p-Terphenyl-d14 (Surr)	87		47 - 131	09/11/26 19:46	09/17/26 15:49	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			09/16/26 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		09/16/26 16:15	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)	<31		31	ug/L		09/14/26 08:52	09/18/26 16:22	1
Motor Oil Range Organics [C24-C36]	<31		31	ug/L		09/14/26 08:52	09/18/26 16:22	1
C8-C18	<31		31	ug/L		09/14/26 08:52	09/18/26 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	84		60 - 130	09/14/26 08:52	09/18/26 16:22	1

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-2

Date Collected: 09/08/26 09:30

Matrix: Water

Date Received: 09/10/26 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			09/16/26 12:59	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL
Date Collected: 09/08/26 09:30
Date Received: 09/10/26 10:05

Lab Sample ID: 380-235629-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		09/16/26 12:59	1

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

Action Limit Summary

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-1

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	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	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	<0.0096		ug/L	0.2	0.0096	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: 380-235629-1
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)
380-235629-1	HALAWA SHAFT VIEWING POC	97	90	109
380-235837-E-1-A MS	Matrix Spike	98	92	109
380-235837-E-2-A DU	Duplicate	98	89	106
LCS 380-252047/23-A	Lab Control Sample	97	97	107
LCSD 380-252047/24-A	Lab Control Sample Dup	98	97	108
MB 380-252047/21-A	Method Blank	96	89	101
MRL 380-252047/22-A	Lab Control Sample	98	93	105

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-235629-1	HALAWA SHAFT VIEWING POC	68	83	42	79	23	87
MB 570-798497/1-A	Method Blank	67	87	44	82	30	84

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-235627-A-1-A MS	Matrix Spike	97	88	78	72	61	105
380-235627-A-1-B MSD	Matrix Spike Duplicate	90	84	58	65	37	95
380-235629-1	HALAWA SHAFT VIEWING POOL	88	81	48	83	28	83
LCS 570-798497/2-A	Lab Control Sample	88	84	58	68	38	90
LCSD 570-798497/3-A	Lab Control Sample Dup	84	79	57	65	40	91
MB 570-798497/1-A	Method Blank	85	80	53	86	34	80

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: 380-235629-1
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)
380-235627-C-1 MS	Matrix Spike	95
380-235627-C-1 MSD	Matrix Spike Duplicate	101
380-235629-1	HALAWA SHAFT VIEWING POOL	97
380-235629-2	TB: HALAWA SHAFT VIEWING POOL	95
LCS 570-800773/3	Lab Control Sample	94
LCSD 570-800773/4	Lab Control Sample Dup	93
MB 570-800773/6	Method Blank	95
MRL 570-800773/5	Lab Control Sample	94

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)
380-235627-B-1-B MS	Matrix Spike	88
380-235627-B-1-C MSD	Matrix Spike Duplicate	90
380-235629-1	HALAWA SHAFT VIEWING POOL	84
LCS 570-799328/2-A	Lab Control Sample	97
LCSD 570-799328/3-A	Lab Control Sample Dup	93
MB 570-799328/1-A	Method Blank	95
MRL 570-799328/4-A	Lab Control Sample	90

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-252047/21-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 252047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
2,4'-DDD	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
2,4'-DDE	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
2,4'-DDT	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
4,4'-DDD	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
4,4'-DDE	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
4,4'-DDT	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Acenaphthene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Acenaphthylene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Acetochlor	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Alachlor	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
alpha-BHC	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
alpha-Chlordane	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Anthracene	<0.020		0.020	ug/L		09/11/26 07:38	09/11/26 12:36	1
Atrazine	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Benz(a)anthracene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/11/26 07:38	09/11/26 12:36	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/11/26 07:38	09/11/26 12:36	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/11/26 07:38	09/11/26 12:36	1
beta-BHC	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		09/11/26 07:38	09/11/26 12:36	1
Bromacil	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Butachlor	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Butylbenzylphthalate	<0.50		0.50	ug/L		09/11/26 07:38	09/11/26 12:36	1
Chlorobenzilate	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Chloroneb	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Chlorpyrifos	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Chrysene	<0.020		0.020	ug/L		09/11/26 07:38	09/11/26 12:36	1
delta-BHC	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		09/11/26 07:38	09/11/26 12:36	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Dieldrin	<0.0099		0.0099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Diethylphthalate	<0.50		0.50	ug/L		09/11/26 07:38	09/11/26 12:36	1
Dimethylphthalate	<0.50		0.50	ug/L		09/11/26 07:38	09/11/26 12:36	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/11/26 07:38	09/11/26 12:36	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Endrin	<0.0099		0.0099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Endrin aldehyde	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
EPTC	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-252047/21-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 252047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Fluorene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
gamma-Chlordane	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Heptachlor	<0.0099		0.0099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Hexachlorobenzene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Isophorone	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Lindane	<0.0099		0.0099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Malathion	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Methoxychlor	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Metolachlor	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Molinate	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Naphthalene	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Parathion	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Phenanthrene	<0.040		0.040	ug/L		09/11/26 07:38	09/11/26 12:36	1
Propachlor	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Pyrene	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Simazine	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Terbacil	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Terbutylazine	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Thiobencarb	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/11/26 07:38	09/11/26 12:36	1
trans-Nonachlor	<0.050		0.050	ug/L		09/11/26 07:38	09/11/26 12:36	1
Trifluralin	<0.099		0.099	ug/L		09/11/26 07:38	09/11/26 12:36	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/11/26 07:38	09/11/26 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	09/11/26 07:38	09/11/26 12:36	1
Perylene-d12	89		70 - 130	09/11/26 07:38	09/11/26 12:36	1
Triphenylphosphate	101		70 - 130	09/11/26 07:38	09/11/26 12:36	1

Lab Sample ID: LCS 380-252047/23-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	1.97		ug/L		99	70 - 130
2,4'-DDD	1.99	2.06		ug/L		104	70 - 130
2,4'-DDE	1.99	2.01		ug/L		101	70 - 130
2,4'-DDT	1.99	2.01		ug/L		101	70 - 130
2,4-Dinitrotoluene	1.99	1.96		ug/L		99	70 - 130
2,6-Dinitrotoluene	1.99	1.91		ug/L		96	70 - 130
2-Methylnaphthalene	1.99	1.99		ug/L		100	70 - 130

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-252047/23-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.99	2.04		ug/L		103	70 - 130
4,4'-DDE	1.99	1.94		ug/L		98	70 - 130
4,4'-DDT	1.99	2.03		ug/L		102	70 - 130
Acenaphthene	1.99	2.02		ug/L		102	70 - 130
Acenaphthylene	1.99	1.92		ug/L		97	70 - 130
Acetochlor	1.99	2.10		ug/L		106	70 - 130
Alachlor	1.99	2.06		ug/L		104	70 - 130
alpha-BHC	1.99	2.05		ug/L		103	70 - 130
alpha-Chlordane	1.99	2.09		ug/L		105	70 - 130
Anthracene	1.99	1.71		ug/L		86	70 - 130
Atrazine	1.99	2.10		ug/L		106	70 - 130
Benz(a)anthracene	1.99	2.10		ug/L		106	70 - 130
Benzo[a]pyrene	1.99	1.97		ug/L		99	70 - 130
Benzo[b]fluoranthene	1.99	2.03		ug/L		102	70 - 130
Benzo[g,h,i]perylene	1.99	1.96		ug/L		99	70 - 130
Benzo[k]fluoranthene	1.99	2.04		ug/L		103	70 - 130
beta-BHC	1.99	2.09		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.80		ug/L		91	70 - 130
Bromacil	1.99	1.84		ug/L		92	70 - 130
Butachlor	1.99	2.18		ug/L		110	70 - 130
Butylbenzylphthalate	1.99	2.25		ug/L		113	70 - 130
Chlorobenzilate	1.99	2.04		ug/L		103	70 - 130
Chloroneb	1.99	2.06		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.09		ug/L		105	70 - 130
Chlorpyrifos	1.99	2.05		ug/L		103	70 - 130
Chrysene	1.99	2.03		ug/L		102	70 - 130
delta-BHC	1.99	2.08		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.05		ug/L		103	70 - 130
Dibenz(a,h)anthracene	1.99	1.93		ug/L		97	70 - 130
Diclorvos (DDVP)	1.99	1.96		ug/L		99	70 - 130
Dieldrin	1.99	2.02		ug/L		102	70 - 130
Diethylphthalate	1.99	2.13		ug/L		107	70 - 130
Dimethylphthalate	1.99	2.07		ug/L		104	70 - 130
Di-n-butyl phthalate	3.97	4.22		ug/L		106	70 - 130
Di-n-octyl phthalate	1.99	1.55		ug/L		78	70 - 130
Endosulfan I (Alpha)	1.99	2.10		ug/L		106	70 - 130
Endosulfan II (Beta)	1.99	2.03		ug/L		102	70 - 130
Endosulfan sulfate	1.99	2.01		ug/L		101	70 - 130
Endrin	1.99	1.99		ug/L		100	70 - 130
Endrin aldehyde	1.99	2.00		ug/L		101	60 - 130
EPTC	1.99	2.03		ug/L		102	70 - 130
Fluoranthene	1.99	2.09		ug/L		105	70 - 130
Fluorene	1.99	2.01		ug/L		101	70 - 130
gamma-Chlordane	1.99	2.06		ug/L		104	70 - 130
Heptachlor	1.99	2.01		ug/L		101	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.03		ug/L		102	70 - 130
Hexachlorobenzene	1.99	1.95		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.99	1.99		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	1.94		ug/L		98	70 - 130

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-252047/23-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.99	1.99		ug/L		100	70 - 130
Lindane	1.99	2.05		ug/L		103	70 - 130
Malathion	1.99	2.09		ug/L		105	70 - 130
Methoxychlor	1.99	2.09		ug/L		105	70 - 130
Metolachlor	1.99	2.11		ug/L		106	70 - 130
Molinate	1.99	2.06		ug/L		104	70 - 130
Naphthalene	1.99	1.92		ug/L		97	70 - 130
Parathion	1.99	2.04		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	1.99	2.02		ug/L		102	70 - 130
Phenanthrene	1.99	2.04		ug/L		103	70 - 130
Propachlor	1.99	2.11		ug/L		106	70 - 130
Pyrene	1.99	2.08		ug/L		105	70 - 130
Simazine	1.99	2.08		ug/L		105	70 - 130
Terbacil	1.99	1.98		ug/L		100	70 - 130
Terbutylazine	1.99	2.16		ug/L		109	70 - 130
Thiobencarb	1.99	2.11		ug/L		106	70 - 130
trans-Nonachlor	1.99	2.04		ug/L		103	70 - 130
Trifluralin	1.99	1.91		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: LCSD 380-252047/24-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.99	2.00		ug/L		101	70 - 130	1	20
2,4'-DDD	1.99	2.07		ug/L		104	70 - 130	1	20
2,4'-DDE	1.99	2.02		ug/L		101	70 - 130	0	20
2,4'-DDT	1.99	2.05		ug/L		103	70 - 130	2	20
2,4-Dinitrotoluene	1.99	1.98		ug/L		100	70 - 130	1	20
2,6-Dinitrotoluene	1.99	1.97		ug/L		99	70 - 130	3	20
2-Methylnaphthalene	1.99	2.01		ug/L		101	70 - 130	1	20
4,4'-DDD	1.99	2.09		ug/L		105	70 - 130	2	20
4,4'-DDE	1.99	1.95		ug/L		98	70 - 130	1	20
4,4'-DDT	1.99	2.06		ug/L		104	70 - 130	2	20
Acenaphthene	1.99	2.02		ug/L		101	70 - 130	0	20
Acenaphthylene	1.99	1.91		ug/L		96	70 - 130	1	20
Acetochlor	1.99	2.13		ug/L		107	70 - 130	1	20
Alachlor	1.99	2.12		ug/L		107	70 - 130	3	20
alpha-BHC	1.99	2.05		ug/L		103	70 - 130	0	20
alpha-Chlordane	1.99	2.13		ug/L		107	70 - 130	2	20
Anthracene	1.99	1.73		ug/L		87	70 - 130	1	20
Atrazine	1.99	2.12		ug/L		106	70 - 130	1	20
Benz(a)anthracene	1.99	2.11		ug/L		106	70 - 130	0	20

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-252047/24-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene	1.99	1.95		ug/L		98	70 - 130	1	20
Benzo[b]fluoranthene	1.99	1.99		ug/L		100	70 - 130	2	20
Benzo[g,h,i]perylene	1.99	1.94		ug/L		98	70 - 130	1	20
Benzo[k]fluoranthene	1.99	2.06		ug/L		103	70 - 130	1	20
beta-BHC	1.99	2.12		ug/L		107	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	1.99	1.76		ug/L		89	70 - 130	2	20
Bromacil	1.99	1.93		ug/L		97	70 - 130	5	20
Butachlor	1.99	2.23		ug/L		112	70 - 130	3	20
Butylbenzylphthalate	1.99	2.31		ug/L		116	70 - 130	3	20
Chlorobenzilate	1.99	2.10		ug/L		106	70 - 130	3	20
Chloroneb	1.99	2.09		ug/L		105	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	1.99	2.13		ug/L		107	70 - 130	2	20
Chlorpyrifos	1.99	2.10		ug/L		105	70 - 130	2	20
Chrysene	1.99	2.00		ug/L		101	70 - 130	2	20
delta-BHC	1.99	2.12		ug/L		107	70 - 130	2	20
Di(2-ethylhexyl)adipate	1.99	2.04		ug/L		103	70 - 130	1	20
Dibenz(a,h)anthracene	1.99	1.84		ug/L		93	70 - 130	5	20
Diclorvos (DDVP)	1.99	1.99		ug/L		100	70 - 130	2	20
Dieldrin	1.99	2.07		ug/L		104	70 - 130	2	20
Diethylphthalate	1.99	2.17		ug/L		109	70 - 130	2	20
Dimethylphthalate	1.99	2.10		ug/L		106	70 - 130	2	20
Di-n-butyl phthalate	3.98	4.39		ug/L		111	70 - 130	4	20
Di-n-octyl phthalate	1.99	1.60		ug/L		80	70 - 130	3	20
Endosulfan I (Alpha)	1.99	2.14		ug/L		108	70 - 130	2	20
Endosulfan II (Beta)	1.99	2.16		ug/L		109	70 - 130	6	20
Endosulfan sulfate	1.99	2.09		ug/L		105	70 - 130	4	20
Endrin	1.99	2.06		ug/L		104	70 - 130	4	20
Endrin aldehyde	1.99	2.06		ug/L		104	60 - 130	3	20
EPTC	1.99	2.08		ug/L		104	70 - 130	3	20
Fluoranthene	1.99	2.10		ug/L		105	70 - 130	1	20
Fluorene	1.99	2.02		ug/L		102	70 - 130	0	20
gamma-Chlordane	1.99	2.09		ug/L		105	70 - 130	1	20
Heptachlor	1.99	2.04		ug/L		103	70 - 130	2	20
Heptachlor epoxide (isomer B)	1.99	2.09		ug/L		105	70 - 130	3	20
Hexachlorobenzene	1.99	1.93		ug/L		97	70 - 130	1	20
Hexachlorocyclopentadiene	1.99	2.03		ug/L		102	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	1.99	1.93		ug/L		97	70 - 130	1	20
Isophorone	1.99	2.03		ug/L		102	70 - 130	2	20
Lindane	1.99	2.09		ug/L		105	70 - 130	2	20
Malathion	1.99	2.13		ug/L		107	70 - 130	2	20
Methoxychlor	1.99	2.10		ug/L		106	70 - 130	0	20
Metolachlor	1.99	2.16		ug/L		108	70 - 130	2	20
Molinate	1.99	2.10		ug/L		106	70 - 130	2	20
Naphthalene	1.99	1.92		ug/L		97	70 - 130	0	20
Parathion	1.99	2.10		ug/L		106	70 - 130	3	20
Pendimethalin (Penoxaline)	1.99	2.08		ug/L		104	70 - 130	3	20
Phenanthrene	1.99	2.03		ug/L		102	70 - 130	0	20
Propachlor	1.99	2.16		ug/L		109	70 - 130	2	20
Pyrene	1.99	2.08		ug/L		105	70 - 130	0	20

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-252047/24-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Simazine	1.99	2.11		ug/L		106	70 - 130	1	20
Terbacil	1.99	1.99		ug/L		100	70 - 130	1	20
Terbutylazine	1.99	2.22		ug/L		112	70 - 130	3	20
Thiobencarb	1.99	2.15		ug/L		108	70 - 130	2	20
trans-Nonachlor	1.99	2.08		ug/L		105	70 - 130	2	20
Trifluralin	1.99	1.94		ug/L		98	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: MRL 380-252047/22-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0987	0.0905	J	ug/L		92	50 - 150
2,4'-DDD	0.0987	0.105		ug/L		106	50 - 150
2,4'-DDE	0.0987	0.113		ug/L		115	50 - 150
2,4'-DDT	0.0987	0.119		ug/L		121	50 - 150
2,4-Dinitrotoluene	0.0987	0.106		ug/L		107	50 - 150
2,6-Dinitrotoluene	0.0987	0.118		ug/L		120	50 - 150
2-Methylnaphthalene	0.0987	0.0959	J	ug/L		97	50 - 150
4,4'-DDD	0.0987	0.123		ug/L		124	50 - 150
4,4'-DDE	0.0987	0.113		ug/L		114	50 - 150
4,4'-DDT	0.0987	0.123		ug/L		125	50 - 150
Acenaphthene	0.0987	0.100		ug/L		102	50 - 150
Acenaphthylene	0.0987	0.0929	J	ug/L		94	50 - 150
Acetochlor	0.0987	0.108		ug/L		109	50 - 150
Alachlor	0.0494	0.0538		ug/L		109	50 - 150
alpha-BHC	0.0987	0.114		ug/L		116	50 - 150
alpha-Chlordane	0.0247	<0.029		ug/L		104	50 - 150
Anthracene	0.0197	0.0216		ug/L		109	50 - 150
Atrazine	0.0494	0.0635		ug/L		129	50 - 150
Benz(a)anthracene	0.0494	0.0561		ug/L		114	50 - 150
Benzo[a]pyrene	0.0197	0.0208		ug/L		105	50 - 150
Benzo[b]fluoranthene	0.0197	0.0216		ug/L		110	50 - 150
Benzo[g,h,i]perylene	0.0494	0.0499		ug/L		101	50 - 150
Benzo[k]fluoranthene	0.0197	0.0215		ug/L		109	50 - 150
beta-BHC	0.0987	0.118		ug/L		120	50 - 150
Bis(2-ethylhexyl) phthalate	0.592	0.726		ug/L		123	50 - 150
Bromacil	0.0987	0.113		ug/L		115	50 - 150
Butachlor	0.0494	0.0562		ug/L		114	50 - 150
Butylbenzylphthalate	0.494	0.647		ug/L		131	50 - 150
Chlorobenzilate	0.0987	0.112		ug/L		113	50 - 150
Chloroneb	0.0987	0.116		ug/L		118	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0987	0.114		ug/L		116	50 - 150

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-252047/22-A

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	0.0494	0.0558		ug/L		113	50 - 150
Chrysene	0.0197	0.0243		ug/L		123	50 - 150
delta-BHC	0.0987	0.121		ug/L		123	50 - 150
Di(2-ethylhexyl)adipate	0.592	0.805		ug/L		136	50 - 150
Dibenz(a,h)anthracene	0.0494	0.0492		ug/L		100	50 - 150
Diclorvos (DDVP)	0.0494	0.0518		ug/L		105	50 - 150
Dieldrin	0.00987	0.0121		ug/L		123	50 - 150
Diethylphthalate	0.494	0.604		ug/L		122	50 - 150
Dimethylphthalate	0.494	0.572		ug/L		116	50 - 150
Di-n-butyl phthalate	0.494	0.603	J	ug/L		122	49 - 243
Di-n-octyl phthalate	0.0987	0.0979	J	ug/L		99	50 - 150
Endosulfan I (Alpha)	0.0987	0.0972	J	ug/L		98	50 - 150
Endosulfan II (Beta)	0.0987	0.125		ug/L		127	50 - 150
Endosulfan sulfate	0.0987	0.124		ug/L		125	50 - 150
Endrin	0.00987	0.0102		ug/L		103	50 - 150
Endrin aldehyde	0.0987	0.127		ug/L		128	50 - 150
EPTC	0.0987	0.104		ug/L		105	50 - 150
Fluoranthene	0.0987	0.108		ug/L		109	50 - 150
Fluorene	0.0494	0.0536		ug/L		109	50 - 150
gamma-Chlordane	0.0247	0.0292	J	ug/L		118	50 - 150
Heptachlor	0.00987	0.0123		ug/L		125	50 - 150
Heptachlor epoxide (isomer B)	0.00987	0.0144		ug/L		146	50 - 150
Hexachlorobenzene	0.0494	0.0490		ug/L		99	50 - 150
Hexachlorocyclopentadiene	0.0494	0.0545		ug/L		110	50 - 150
Indeno[1,2,3-cd]pyrene	0.0494	0.0488	J	ug/L		99	50 - 150
Isophorone	0.0987	0.0956	J	ug/L		97	50 - 150
Lindane	0.00987	0.0126		ug/L		128	50 - 150
Malathion	0.0987	0.105		ug/L		106	50 - 150
Methoxychlor	0.0494	0.0594		ug/L		120	50 - 150
Metolachlor	0.0494	0.0548		ug/L		111	50 - 150
Molinate	0.0987	0.110		ug/L		112	50 - 150
Naphthalene	0.0987	0.111		ug/L		112	50 - 150
Parathion	0.0987	0.0958	J	ug/L		97	50 - 150
Pendimethalin (Penoxaline)	0.0987	0.0968	J	ug/L		98	50 - 150
Phenanthrene	0.0395	0.0444		ug/L		112	50 - 150
Propachlor	0.0494	0.0559		ug/L		113	50 - 150
Pyrene	0.0494	0.0562		ug/L		114	50 - 150
Simazine	0.0494	0.0633		ug/L		128	50 - 150
Terbacil	0.0987	0.0975	J	ug/L		99	50 - 150
Terbutylazine	0.0987	0.117		ug/L		119	50 - 150
Thiobencarb	0.0987	0.117		ug/L		118	50 - 150
trans-Nonachlor	0.0247	0.0286	J	ug/L		116	50 - 150
Trifluralin	0.0987	0.0992		ug/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	105		70 - 130

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-235837-E-1-A MS

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		2.01	2.03		ug/L		101	70 - 130
2,4'-DDD	<0.099		2.01	1.99		ug/L		99	70 - 130
2,4'-DDE	<0.099		2.01	1.80		ug/L		90	70 - 130
2,4'-DDT	<0.099		2.01	1.76		ug/L		88	70 - 130
2,4-Dinitrotoluene	<0.099		2.01	2.02		ug/L		101	70 - 130
2,6-Dinitrotoluene	<0.099		2.01	1.99		ug/L		99	70 - 130
2-Methylnaphthalene	<0.099		2.01	2.02		ug/L		101	70 - 130
4,4'-DDD	<0.099		2.01	1.97		ug/L		98	70 - 130
4,4'-DDE	<0.099		2.01	1.64		ug/L		82	70 - 130
4,4'-DDT	<0.099		2.01	1.79		ug/L		89	70 - 130
Acenaphthene	<0.099		2.01	2.02		ug/L		101	70 - 130
Acenaphthylene	<0.099		2.01	1.87		ug/L		93	70 - 130
Acetochlor	<0.099		2.01	2.10		ug/L		105	70 - 130
Alachlor	<0.049		2.01	2.10		ug/L		105	70 - 130
alpha-BHC	<0.099		2.01	2.07		ug/L		103	70 - 130
alpha-Chlordane	<0.049		2.01	2.03		ug/L		101	70 - 130
Anthracene	<0.020	F1	2.01	0.283	F1	ug/L		14	70 - 130
Atrazine	<0.049		2.01	2.16		ug/L		108	70 - 130
Benz(a)anthracene	<0.049		2.01	1.45		ug/L		72	70 - 130
Benzo[a]pyrene	<0.020	F1	2.01	0.969	F1	ug/L		48	70 - 130
Benzo[b]fluoranthene	<0.020		2.01	2.29		ug/L		114	70 - 130
Benzo[g,h,i]perylene	<0.049		2.01	1.79		ug/L		89	70 - 130
Benzo[k]fluoranthene	<0.020		2.01	2.06		ug/L		103	70 - 130
beta-BHC	<0.099		2.01	2.15		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		2.01	1.80		ug/L		90	70 - 130
Bromacil	<0.099		2.01	2.11		ug/L		105	70 - 130
Butachlor	<0.049		2.01	2.26		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		2.01	2.35		ug/L		117	70 - 130
Chlorobenzilate	<0.099		2.01	2.13		ug/L		106	70 - 130
Chloroneb	<0.099		2.01	2.03		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		2.01	2.13		ug/L		106	70 - 130
Chlorpyrifos	<0.049		2.01	2.16		ug/L		108	70 - 130
Chrysene	<0.020		2.01	2.24		ug/L		112	70 - 130
delta-BHC	<0.099		2.01	2.12		ug/L		106	70 - 130
Di(2-ethylhexyl)adipate	<0.59		2.01	1.63		ug/L		81	70 - 130
Dibenz(a,h)anthracene	<0.049		2.01	1.75		ug/L		87	70 - 130
Diclorvos (DDVP)	<0.049		2.01	2.02		ug/L		101	70 - 130
Dieldrin	<0.0099		2.01	2.07		ug/L		103	70 - 130
Diethylphthalate	<0.49		2.01	2.15		ug/L		107	70 - 130
Dimethylphthalate	<0.49		2.01	2.12		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.99		4.01	4.36		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.099		2.01	1.63		ug/L		81	70 - 130
Endosulfan I (Alpha)	<0.099		2.01	2.14		ug/L		107	70 - 130
Endosulfan II (Beta)	<0.099		2.01	2.16		ug/L		108	70 - 130
Endosulfan sulfate	<0.099		2.01	2.07		ug/L		103	70 - 130
Endrin	<0.0099		2.01	1.99		ug/L		99	70 - 130
Endrin aldehyde	<0.099		2.01	1.85		ug/L		92	60 - 130
EPTC	<0.099		2.01	2.07		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-235837-E-1-A MS

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	<0.099		2.01	2.09		ug/L		104	70 - 130
Fluorene	<0.049		2.01	2.02		ug/L		101	70 - 130
gamma-Chlordane	<0.049		2.01	1.98		ug/L		99	70 - 130
Heptachlor	<0.0099		2.01	2.00		ug/L		100	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		2.01	2.02		ug/L		101	70 - 130
Hexachlorobenzene	<0.049		2.01	1.91		ug/L		95	70 - 130
Hexachlorocyclopentadiene	<0.049		2.01	2.12		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		2.01	1.81		ug/L		90	70 - 130
Isophorone	<0.099		2.01	2.06		ug/L		103	70 - 130
Lindane	<0.0099		2.01	2.08		ug/L		104	70 - 130
Malathion	<0.099		2.01	2.14		ug/L		107	70 - 130
Methoxychlor	<0.049	F1	2.01	2.79	F1	ug/L		139	70 - 130
Metolachlor	<0.049		2.01	2.16		ug/L		108	70 - 130
Molinate	<0.099		2.01	2.10		ug/L		105	70 - 130
Naphthalene	<0.099		2.01	1.96		ug/L		98	70 - 130
Parathion	<0.099		2.01	2.13		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	<0.099		2.01	2.10		ug/L		105	70 - 130
Phenanthrene	<0.039		2.01	2.02		ug/L		100	70 - 130
Propachlor	<0.049		2.01	2.14		ug/L		107	70 - 130
Pyrene	<0.049		2.01	2.01		ug/L		100	70 - 130
Simazine	<0.049		2.01	2.17		ug/L		108	70 - 130
Terbacil	<0.099		2.01	2.05		ug/L		102	70 - 130
Terbutylazine	<0.099		2.01	2.25		ug/L		112	70 - 130
Thiobencarb	<0.099		2.01	2.11		ug/L		105	70 - 130
trans-Nonachlor	<0.049		2.01	1.95		ug/L		97	70 - 130
Trifluralin	<0.099		2.01	1.93		ug/L		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-235837-E-2-A DU

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
2,4'-DDD	<0.10		<0.099		ug/L		NC	20
2,4'-DDE	<0.10		<0.099		ug/L		NC	20
2,4'-DDT	<0.10		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
4,4'-DDD	<0.10		<0.099		ug/L		NC	20
4,4'-DDE	<0.10		<0.099		ug/L		NC	20
4,4'-DDT	<0.10		<0.099		ug/L		NC	20
Acenaphthene	<0.10		<0.099		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-235837-E-2-A DU
Matrix: Water
Analysis Batch: 252114

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 252047

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Acenaphthylene	<0.10		<0.099		ug/L		NC	20
Acetochlor	<0.10		<0.099		ug/L		NC	20
Alachlor	<0.050		<0.050		ug/L		NC	20
alpha-BHC	<0.10		<0.099		ug/L		NC	20
alpha-Chlordane	<0.050		<0.050		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.050		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.050		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	<0.050		<0.050		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.10		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.60		ug/L		NC	20
Bromacil	<0.10		<0.099		ug/L		NC	20
Butachlor	<0.050		<0.050		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.50		ug/L		NC	20
Chlorobenzilate	<0.10		<0.099		ug/L		NC	20
Chloroneb	<0.10		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.10		<0.099		ug/L		NC	20
Chlorpyrifos	<0.050		<0.050		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.10		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.60		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.050		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.050		ug/L		NC	20
Dieldrin	<0.010		<0.0099		ug/L		NC	20
Diethylphthalate	<0.50		<0.50		ug/L		NC	20
Dimethylphthalate	<0.50		<0.50		ug/L		NC	20
Di-n-butyl phthalate	<1.0		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.10		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.10		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.10		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.10		<0.099		ug/L		NC	20
Endrin	<0.010		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.10		<0.099		ug/L		NC	20
EPTC	<0.10		<0.099		ug/L		NC	20
Fluoranthene	<0.10		<0.099		ug/L		NC	20
Fluorene	<0.050		<0.050		ug/L		NC	20
gamma-Chlordane	<0.050		<0.050		ug/L		NC	20
Heptachlor	<0.010		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.010		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.050		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.050		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.050		ug/L		NC	20
Isophorone	<0.10		<0.099		ug/L		NC	20
Lindane	<0.010		<0.0099		ug/L		NC	20
Malathion	<0.10		<0.099		ug/L		NC	20
Methoxychlor	<0.050		<0.050		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-235837-E-2-A DU

Matrix: Water

Analysis Batch: 252114

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 252047

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Metolachlor	<0.050		<0.050		ug/L		NC	20
Molinate	<0.10		<0.099		ug/L		NC	20
Naphthalene	<0.10		<0.099		ug/L		NC	20
Parathion	<0.10		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.10		<0.099		ug/L		NC	20
Phenanthrene	<0.040		<0.040		ug/L		NC	20
Propachlor	<0.050		<0.050		ug/L		NC	20
Pyrene	<0.050		<0.050		ug/L		NC	20
Simazine	<0.050		<0.050		ug/L		NC	20
Terbacil	<0.10		<0.099		ug/L		NC	20
Terbutylazine	<0.10		<0.099		ug/L		NC	20
Thiobencarb	<0.10		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.050		ug/L		NC	20
Trifluralin	<0.10		<0.099		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	106		70 - 130

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

Lab Sample ID: MB 570-798497/1-A

Matrix: Water

Analysis Batch: 801479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 798497

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/11/26 08:36	09/17/26 12:36	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139	09/11/26 08:36	09/17/26 12:36	1
2-Fluorobiphenyl (Surr)	87		33 - 126	09/11/26 08:36	09/17/26 12:36	1
2-Fluorophenol (Surr)	44		12 - 120	09/11/26 08:36	09/17/26 12:36	1
Nitrobenzene-d5 (Surr)	82		36 - 120	09/11/26 08:36	09/17/26 12:36	1
Phenol-d6 (Surr)	30		10 - 120	09/11/26 08:36	09/17/26 12:36	1
p-Terphenyl-d14 (Surr)	84		47 - 131	09/11/26 08:36	09/17/26 12:36	1

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

Lab Sample ID: MB 570-798497/1-A

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 798497

Analyte	Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
2-Methylnaphthalene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Acenaphthene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-798497/1-A

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 798497

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Anthracene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Benzo[a]anthracene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Benzo[a]pyrene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Chrysene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Fluoranthene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Fluorene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Naphthalene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Phenanthrene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1
Pyrene	<0.20		0.20	ug/L		09/11/26 08:36	09/14/26 22:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	09/11/26 08:36	09/14/26 22:14	1
2-Fluorobiphenyl (Surr)	80		31 - 120	09/11/26 08:36	09/14/26 22:14	1
2-Fluorophenol (Surr)	53		17 - 120	09/11/26 08:36	09/14/26 22:14	1
Nitrobenzene-d5 (Surr)	86		27 - 120	09/11/26 08:36	09/14/26 22:14	1
Phenol-d6 (Surr)	34		10 - 120	09/11/26 08:36	09/14/26 22:14	1
p-Terphenyl-d14 (Surr)	80		45 - 120	09/11/26 08:36	09/14/26 22:14	1

Lab Sample ID: LCS 570-798497/2-A

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 798497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	11.3		ug/L		57	47 - 120
2-Methylnaphthalene	20.0	11.5		ug/L		58	43 - 120
Acenaphthene	20.0	16.0		ug/L		80	60 - 132
Acenaphthylene	20.0	16.5		ug/L		82	54 - 126
Anthracene	20.0	16.8		ug/L		84	43 - 120
Benzo[a]anthracene	20.0	18.4		ug/L		92	42 - 133
Benzo[a]pyrene	20.0	17.8		ug/L		89	32 - 148
Benzo[b]fluoranthene	20.0	17.2		ug/L		86	42 - 140
Benzo[g,h,i]perylene	20.0	17.1		ug/L		85	1 - 195
Benzo[k]fluoranthene	20.0	18.0		ug/L		90	25 - 146
Chrysene	20.0	17.2		ug/L		86	44 - 140
Dibenz(a,h)anthracene	20.0	17.5		ug/L		88	1 - 200
Fluoranthene	20.0	17.8		ug/L		89	43 - 121
Fluorene	20.0	16.4		ug/L		82	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.4		ug/L		87	1 - 151
Naphthalene	20.0	11.7		ug/L		58	36 - 120
Phenanthrene	20.0	16.0		ug/L		80	65 - 120
Pyrene	20.0	17.7		ug/L		88	70 - 120

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-798497/2-A

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 798497

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

Lab Sample ID: LCSD 570-798497/3-A

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 798497

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	11.8		ug/L		59	47 - 120	4	20
2-Methylnaphthalene	20.0	12.3		ug/L		62	43 - 120	7	20
Acenaphthene	20.0	16.0		ug/L		80	60 - 132	0	29
Acenaphthylene	20.0	16.3		ug/L		82	54 - 126	1	45
Anthracene	20.0	16.6		ug/L		83	43 - 120	1	40
Benzo[a]anthracene	20.0	18.3		ug/L		91	42 - 133	1	32
Benzo[a]pyrene	20.0	17.9		ug/L		89	32 - 148	0	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	1	61
Benzo[k]fluoranthene	20.0	18.0		ug/L		90	25 - 146	0	38
Chrysene	20.0	16.8		ug/L		84	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	17.5		ug/L		87	1 - 200	0	75
Fluoranthene	20.0	16.9		ug/L		84	43 - 121	5	40
Fluorene	20.0	16.5		ug/L		83	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	17.5		ug/L		88	1 - 151	1	60
Naphthalene	20.0	11.7		ug/L		58	36 - 120	0	39
Phenanthrene	20.0	16.0		ug/L		80	65 - 120	0	24
Pyrene	20.0	18.8		ug/L		94	70 - 120	6	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

Lab Sample ID: 380-235627-A-1-A MS

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 798497

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.20		19.3	12.8		ug/L		66	36 - 120
2-Methylnaphthalene	<0.20		19.3	13.0		ug/L		67	32 - 124
Acenaphthene	<0.20		19.3	16.5		ug/L		85	47 - 145
Acenaphthylene	<0.20		19.3	16.9		ug/L		88	33 - 145

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QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-235627-A-1-A MS

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 798497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	<0.20		19.3	17.3		ug/L		90	27 - 133
Benzo[a]anthracene	<0.20		19.3	19.1		ug/L		99	33 - 143
Benzo[a]pyrene	<0.20		19.3	18.3		ug/L		94	17 - 163
Benzo[b]fluoranthene	<0.20		19.3	17.7		ug/L		92	24 - 159
Benzo[g,h,i]perylene	<0.20		19.3	17.2		ug/L		89	1 - 219
Benzo[k]fluoranthene	<0.20		19.3	18.5		ug/L		96	11 - 162
Chrysene	<0.20		19.3	17.6		ug/L		91	17 - 168
Dibenz(a,h)anthracene	<0.20		19.3	17.6		ug/L		91	1 - 227
Fluoranthene	<0.20		19.3	17.6		ug/L		91	26 - 137
Fluorene	<0.20		19.3	16.6		ug/L		86	59 - 121
Indeno[1,2,3-cd]pyrene	<0.20		19.3	17.5		ug/L		91	1 - 171
Naphthalene	<0.20		19.3	11.8		ug/L		61	21 - 133
Phenanthrene	<0.20		19.3	16.6		ug/L		86	54 - 120
Pyrene	<0.20		19.3	20.2		ug/L		105	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	97		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	78		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	61		10 - 120
p-Terphenyl-d14 (Surr)	105		45 - 120

Lab Sample ID: 380-235627-A-1-B MSD

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 798497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.20		19.6	12.5		ug/L		64	36 - 120	2	30
2-Methylnaphthalene	<0.20		19.6	12.6		ug/L		65	32 - 124	2	30
Acenaphthene	<0.20		19.6	16.0		ug/L		82	47 - 145	3	48
Acenaphthylene	<0.20		19.6	16.4		ug/L		84	33 - 145	3	74
Anthracene	<0.20		19.6	16.7		ug/L		85	27 - 133	4	66
Benzo[a]anthracene	<0.20		19.6	18.7		ug/L		96	33 - 143	2	53
Benzo[a]pyrene	<0.20		19.6	16.9		ug/L		86	17 - 163	8	72
Benzo[b]fluoranthene	<0.20		19.6	16.6		ug/L		85	24 - 159	6	71
Benzo[g,h,i]perylene	<0.20		19.6	16.6		ug/L		85	1 - 219	4	97
Benzo[k]fluoranthene	<0.20		19.6	17.3		ug/L		89	11 - 162	7	63
Chrysene	<0.20		19.6	17.3		ug/L		89	17 - 168	2	87
Dibenz(a,h)anthracene	<0.20		19.6	17.0		ug/L		87	1 - 227	4	126
Fluoranthene	<0.20		19.6	17.5		ug/L		89	26 - 137	1	66
Fluorene	<0.20		19.6	16.4		ug/L		84	59 - 121	1	38
Indeno[1,2,3-cd]pyrene	<0.20		19.6	16.8		ug/L		86	1 - 171	4	99
Naphthalene	<0.20		19.6	11.4		ug/L		58	21 - 133	3	65
Phenanthrene	<0.20		19.6	16.0		ug/L		82	54 - 120	4	39
Pyrene	<0.20		19.6	19.4		ug/L		99	52 - 120	4	49

Eurofins Pomona

QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-235627-A-1-B MSD

Matrix: Water

Analysis Batch: 799913

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 798497

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	95		45 - 120

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

Lab Sample ID: MB 570-800773/6

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	Result	Qualifier	10	ug/L			09/16/26 12:05	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	38 - 134		09/16/26 12:05	1		

Lab Sample ID: LCS 570-800773/3

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier	ug/L		92	78 - 120			
Surrogate	LCS	LCS	Limits							
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	38 - 134							

Lab Sample ID: LCSD 570-800773/4

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier	ug/L		93	78 - 120	1	10	
Surrogate	LCSD	LCSD	Limits							
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	38 - 134							

Lab Sample ID: MRL 570-800773/5

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier	ug/L		126	50 - 150			

Eurofins Pomona

QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-800773/5

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		38 - 134

Lab Sample ID: 380-235627-C-1 MS

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	370		ug/L		92	68 - 122
Surrogate	%Recovery	Qualifier	Limits	MS	MS				
4-Bromofluorobenzene (Surr)	95		38 - 134						

Lab Sample ID: 380-235627-C-1 MSD

Matrix: Water

Analysis Batch: 800773

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	358		ug/L		90	68 - 122	3	18
Surrogate	%Recovery	Qualifier	Limits	MSD	MSD						
4-Bromofluorobenzene (Surr)	101		38 - 134								

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

Lab Sample ID: MB 570-799328/1-A

Matrix: Water

Analysis Batch: 802031

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 799328

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<31		31	ug/L		09/13/26 15:38	09/18/26 09:34	1
Motor Oil Range Organics [C24-C36]	<31		31	ug/L		09/13/26 15:38	09/18/26 09:34	1
C8-C18	<31		31	ug/L		09/13/26 15:38	09/18/26 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 130			09/13/26 15:38	09/18/26 09:34	1

Lab Sample ID: LCS 570-799328/2-A

Matrix: Water

Analysis Batch: 802031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 799328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1510		ug/L		94	56 - 127
Surrogate	%Recovery	Qualifier	Limits				
n-Octacosane (Surr)	97		60 - 130				

Eurofins Pomona

QC Sample Results

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-799328/3-A

Matrix: Water

Analysis Batch: 802031

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 799328

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1480		ug/L		93	56 - 127	2	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	93		60 - 130								

Lab Sample ID: MRL 570-799328/4-A

Matrix: Water

Analysis Batch: 802031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 799328

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0311	^3+	mg/L		156	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
n-Octacosane (Surr)	90		60 - 130								

Lab Sample ID: 380-235627-B-1-B MS

Matrix: Water

Analysis Batch: 802031

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 799328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<32	^3+	1620	1490		ug/L		92	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	88		60 - 130								

Lab Sample ID: 380-235627-B-1-C MSD

Matrix: Water

Analysis Batch: 802031

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 799328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<32	^3+	1650	1550		ug/L		94	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	90		60 - 130								

QC Association Summary

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 252047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-252047/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-252047/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-252047/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-252047/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-235837-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-235837-E-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 252114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	252047
MB 380-252047/21-A	Method Blank	Total/NA	Water	525.2	252047
LCS 380-252047/23-A	Lab Control Sample	Total/NA	Water	525.2	252047
LCSD 380-252047/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	252047
MRL 380-252047/22-A	Lab Control Sample	Total/NA	Water	525.2	252047
380-235837-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	252047
380-235837-E-2-A DU	Duplicate	Total/NA	Water	525.2	252047

Prep Batch: 798497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-798497/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-798497/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-798497/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-235627-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-235627-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 799913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	798497
MB 570-798497/1-A	Method Blank	Total/NA	Water	625.1 SIM	798497
LCS 570-798497/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	798497
LCSD 570-798497/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	798497
380-235627-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	798497
380-235627-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	798497

Analysis Batch: 801479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	798497
MB 570-798497/1-A	Method Blank	Total/NA	Water	625.1	798497

GC VOA

Analysis Batch: 800773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-235629-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-800773/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-800773/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-800773/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-800773/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA (Continued)

Analysis Batch: 800773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235627-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-235627-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 799328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-799328/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-799328/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-799328/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-799328/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-235627-B-1-B MS	Matrix Spike	Total/NA	Water	3510C	
380-235627-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 802031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-235629-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	799328
MB 570-799328/1-A	Method Blank	Total/NA	Water	8015B	799328
LCS 570-799328/2-A	Lab Control Sample	Total/NA	Water	8015B	799328
LCSD 570-799328/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	799328
MRL 570-799328/4-A	Lab Control Sample	Total/NA	Water	8015B	799328
380-235627-B-1-B MS	Matrix Spike	Total/NA	Water	8015B	799328
380-235627-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	799328

Lab Chronicle

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-1

Date Collected: 09/08/26 09:30

Matrix: Water

Date Received: 09/10/26 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			252047	OTM3	EA POM	09/11/26 07:38
Total/NA	Analysis	525.2		1	252114	UPAC	EA POM	09/11/26 17:41
Total/NA	Prep	625.1			798497	OAJ3	EET CAL 4	09/11/26 19:46
Total/NA	Analysis	625.1		1	801479	J7WE	EET CAL 4	09/17/26 15:49
Total/NA	Prep	625.1			798497	OAJ3	EET CAL 4	09/11/26 19:46
Total/NA	Analysis	625.1 SIM		1	799913	S4EA	EET CAL 4	09/15/26 00:28
Total/NA	Analysis	8015B GRO LL		1	800773	7CF2	EET CAL 4	09/16/26 16:15
Total/NA	Prep	3510C			799328	TVD6	EET CAL 4	09/14/26 08:52
Total/NA	Analysis	8015B		1	802031	TR8L	EET CAL 4	09/18/26 16:22

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-235629-2

Date Collected: 09/08/26 09:30

Matrix: Water

Date Received: 09/10/26 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	800773	7CF2	EET CAL 4	09/16/26 12:59

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: 380-235629-1
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	01-31-27
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	11-16-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-29-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-235629-1
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: 380-235629-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-235629-1	HALAWA SHAFT VIEWING POOL	Water	09/08/26 09:30	09/10/26 10:05	Hawaii
380-235629-2	TB: HALAWA SHAFT VIEWING POOL	Water	09/08/26 09:30	09/10/26 10:05	Hawaii

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



380-235629 COC

Page 38 of 42

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

SHIP DATE: 09SEP26
ACTWGT: 34.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100

REF:

INV:
PO:

DEPT:



6 of 6

THU - 10 SEP 10:30A
PRIORITY OVERNIGHT

MPS#

8769 7738 7241

0263

Mstr# 8769 7738 7193

0201

WM ONTA

91768

CA-US ONT



(631A) 1.7±0.2: 19 gel-frozen
Martha Markumatics 9/10/26 1005

After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Ver: 08/18/2026
9/21/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-235629-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 235629

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-235629-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 235629

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 09/11/26 02:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5 /2.6 1.8 /1.9 IR-4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	