eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 10/12/2026 3:19:44 PM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-239282-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

my EOL

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW,Water matrices)

Authorization



Generated
10/12/2026 3:19:44 PM

Authorized for release by
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1145

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Action Limit Summary 11
Surrogate Summary 12
QC Sample Results 14
QC Association Summary 30
Lab Chronicle 32
Certification Summary 33
Method Summary 35
Sample Summary 36
Chain of Custody 37
Receipt Checklists 39

Definitions/Glossary

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

Job ID: 380-239282-1
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/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

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

Job Narrative
380-239282-1

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 10/1/2026 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 1.4°C.

GC/MS Semi VOA
Method 525.2: Results by EPA 525.2 for HALAWA SHAFT VIEWING POOL (380-239282-1) collected on 09/29/26 are a resample for HALAWA SHAFT VIEWING POOL (380-238101-1) collected on 09/22/26. (XWB4)

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-810072 and analytical batch 570-813492 recovered outside control limits for the following analytes: C10-C28.
Method: 8015B_DRO_LL_CS
Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-810072 and analytical batch 570-813492 was outside control limits.
Method: 8015B_DRO_LL_CS
Method 8015B: The method reporting limit check (MRL) for preparation batch 570-810072 and analytical batch 570-813492 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.

Detection Summary

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-239282-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-239282-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL
Date Collected: 09/29/26 09:30
Date Received: 10/01/26 10:00

Lab Sample ID: 380-239282-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
2,4'-DDD	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
2,4'-DDE	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
2,4'-DDT	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
2,4-Dinitrotoluene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
2,6-Dinitrotoluene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
2-Methylnaphthalene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
4,4'-DDD	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
4,4'-DDE	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
4,4'-DDT	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Acenaphthene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Acenaphthylene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Acetochlor	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Alachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
alpha-BHC	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
alpha-Chlordane	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Anthracene	<0.019		0.019		ug/L		10/02/26 09:43	10/05/26 14:57	1
Atrazine	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Benz(a)anthracene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Benzo[a]pyrene	<0.019		0.019		ug/L		10/02/26 09:43	10/05/26 14:57	1
Benzo[b]fluoranthene	<0.019		0.019		ug/L		10/02/26 09:43	10/05/26 14:57	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Benzo[k]fluoranthene	<0.019		0.019		ug/L		10/02/26 09:43	10/05/26 14:57	1
beta-BHC	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58		ug/L		10/02/26 09:43	10/05/26 14:57	1
Bromacil	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Butachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Butylbenzylphthalate	<0.49		0.49		ug/L		10/02/26 09:43	10/05/26 14:57	1
Chlorobenzilate	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Chloroneb	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Chlorpyrifos	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Chrysene	<0.019		0.019		ug/L		10/02/26 09:43	10/05/26 14:57	1
delta-BHC	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Di(2-ethylhexyl)adipate	<0.58		0.58		ug/L		10/02/26 09:43	10/05/26 14:57	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Dieldrin	<0.0097		0.0097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Diethylphthalate	<0.49		0.49		ug/L		10/02/26 09:43	10/05/26 14:57	1
Dimethylphthalate	<0.49		0.49		ug/L		10/02/26 09:43	10/05/26 14:57	1
Di-n-butyl phthalate	<0.97		0.97		ug/L		10/02/26 09:43	10/05/26 14:57	1
Di-n-octyl phthalate	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Endosulfan I (Alpha)	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Endosulfan II (Beta)	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Endosulfan sulfate	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Endrin	<0.0097		0.0097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Endrin aldehyde	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
EPTC	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Fluoranthene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL
Date Collected: 09/29/26 09:30
Date Received: 10/01/26 10:00

Lab Sample ID: 380-239282-1
Matrix: Water

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		10/02/26 09:43	10/05/26 14:57	1
gamma-Chlordane	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Heptachlor	<0.0097		0.0097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Hexachlorobenzene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Isophorone	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Lindane	<0.0097		0.0097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Malathion	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Methoxychlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Metolachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Molinate	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Naphthalene	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Parathion	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Pendimethalin (Penoxaline)	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Phenanthrene	<0.039		0.039		ug/L		10/02/26 09:43	10/05/26 14:57	1
Propachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Pyrene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Simazine	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Terbacil	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Terbuthylazine	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Thiobencarb	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1
Total Permethrin (mixed isomers)	<0.19		0.19		ug/L		10/02/26 09:43	10/05/26 14:57	1
trans-Nonachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 14:57	1
Trifluralin	<0.097		0.097		ug/L		10/02/26 09:43	10/05/26 14:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*10/02/26 09:43*	*10/05/26 14:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*97*		*70 - 130*	*10/02/26 09:43*	*10/05/26 14:57*	*1*
Perylene-d12	*96*		*70 - 130*	*10/02/26 09:43*	*10/05/26 14:57*	*1*
Triphenylphosphate	*103*		*70 - 130*	*10/02/26 09:43*	*10/05/26 14:57*	*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		10/03/26 07:30	10/06/26 21:53	1
2-Methylnaphthalene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Acenaphthene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Acenaphthylene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Anthracene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Benzo[a]anthracene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Benzo[a]pyrene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Chrysene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Fluoranthene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-239282-1
Date Collected: 09/29/26 09:30
Matrix: Water
Date Received: 10/01/26 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		10/03/26 07:30	10/06/26 21:53	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Naphthalene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Phenanthrene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1
Pyrene	<0.19		0.19		ug/L		10/03/26 07:30	10/06/26 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*28 - 127*	*10/03/26 07:30*	*10/06/26 21:53*	*1*
2-Fluorobiphenyl (Surr)	*83*		*31 - 120*	*10/03/26 07:30*	*10/06/26 21:53*	*1*
2-Fluorophenol (Surr)	*50*		*17 - 120*	*10/03/26 07:30*	*10/06/26 21:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*27 - 120*	*10/03/26 07:30*	*10/06/26 21:53*	*1*
Phenol-d6 (Surr)	*30*		*10 - 120*	*10/03/26 07:30*	*10/06/26 21:53*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 120*	*10/03/26 07:30*	*10/06/26 21:53*	*1*

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

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclic octaatomic sulfur	*7.9*	*T J N*	*ug/L*		*9.73*	*10544-50-0*	*10/03/26 07:30*	*10/07/26 13:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*33 - 139*	*10/03/26 07:30*	*10/07/26 13:35*	*1*
2-Fluorobiphenyl (Surr)	*77*		*33 - 126*	*10/03/26 07:30*	*10/07/26 13:35*	*1*
2-Fluorophenol (Surr)	*44*		*12 - 120*	*10/03/26 07:30*	*10/07/26 13:35*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*10/03/26 07:30*	*10/07/26 13:35*	*1*
Phenol-d6 (Surr)	*30*		*10 - 120*	*10/03/26 07:30*	*10/07/26 13:35*	*1*
p-Terphenyl-d14 (Surr)	*76*		*47 - 131*	*10/03/26 07:30*	*10/07/26 13:35*	*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			10/04/26 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*		*10/04/26 15:03*	*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		10/04/26 15:27	10/10/26 17:47	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		10/04/26 15:27	10/10/26 17:47	1
C8-C18	<25		25		ug/L		10/04/26 15:27	10/10/26 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*97*		*60 - 130*	*10/04/26 15:27*	*10/10/26 17:47*	*1*

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-239282-2
Date Collected: 09/29/26 09:30
Matrix: Water
Date Received: 10/01/26 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			10/04/26 19:50	1

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL
Date Collected: 09/29/26 09:30
Date Received: 10/01/26 10:00

Lab Sample ID: 380-239282-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		10/04/26 19:50	1

Action Limit Summary

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-239282-1

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 Limit	RL	Method	Prep Type
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-239093-BD-1-A MS	Matrix Spike	97	98	103
380-239282-1	HALAWA SHAFT VIEWING POOL	97	96	103
380-239282-1 DU	HALAWA SHAFT VIEWING POOL	98	97	108
LCS 380-256032/23-A	Lab Control Sample	94	97	106
MB 380-256032/21-A	Method Blank	98	90	99
MRL 380-256032/22-A	Lab Control Sample	97	91	97

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-239282-1	HALAWA SHAFT VIEWING POO	73	77	44	77	30	76
MB 570-809766/1-A	Method Blank	82	85	57	94	38	88

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)
380-238986-A-1-A MS	Matrix Spike	94	95	73	70	46	110
380-238986-A-1-B MSD	Matrix Spike Duplicate	86	89	68	66	42	105
380-239282-1	HALAWA SHAFT VIEWING POOL	94	83	50	81	30	79
LCS 570-809766/2-A	Lab Control Sample	95	93	73	69	46	107
LCSD 570-809766/3-A	Lab Control Sample Dup	93	93	72	68	46	108
MB 570-809766/1-A	Method Blank	102	90	62	94	37	88

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: 380-239282-1
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)									
380-238986-B-1 MS	Matrix Spike	97									
380-238986-B-1 MSD	Matrix Spike Duplicate	99									
380-239282-1	HALAWA SHAFT VIEWING POOL	98									
380-239282-2	TB: HALAWA SHAFT VIEWING POOL	97									
LCS 570-809982/3	Lab Control Sample	94									
LCSD 570-809982/4	Lab Control Sample Dup	98									
MB 570-809982/6	Method Blank	97									
MRL 570-809982/7	Lab Control Sample	89									

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)									
380-238986-C-1-A MS	Matrix Spike	66									
380-238986-C-1-B MSD	Matrix Spike Duplicate	97									
380-239282-1	HALAWA SHAFT VIEWING POOL	97									
LCS 570-810072/2-A	Lab Control Sample	73									
LCSD 570-810072/3-A	Lab Control Sample Dup	97									
MB 570-810072/1-A	Method Blank	102									
MRL 570-810072/4-A	Lab Control Sample	99									

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 380-256032/21-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256032

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
2,4'-DDD	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
2,4'-DDE	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
2,4'-DDT	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
2-Methylnaphthalene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
4,4'-DDD	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
4,4'-DDE	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
4,4'-DDT	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Acenaphthene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Acenaphthylene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Acetochlor	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Alachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
alpha-BHC	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
alpha-Chlordane	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Anthracene	<0.020		0.020		ug/L		10/02/26 09:43	10/05/26 13:14	1
Atrazine	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Benz(a)anthracene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Benzo[a]pyrene	<0.020		0.020		ug/L		10/02/26 09:43	10/05/26 13:14	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		10/02/26 09:43	10/05/26 13:14	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		10/02/26 09:43	10/05/26 13:14	1
beta-BHC	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		10/02/26 09:43	10/05/26 13:14	1
Bromacil	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Butachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Butylbenzylphthalate	<0.49		0.49		ug/L		10/02/26 09:43	10/05/26 13:14	1
Chlorobenzilate	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Chloroneb	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Chlorpyrifos	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Chrysene	<0.020		0.020		ug/L		10/02/26 09:43	10/05/26 13:14	1
delta-BHC	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		10/02/26 09:43	10/05/26 13:14	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Dieldrin	<0.0098		0.0098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Diethylphthalate	<0.49		0.49		ug/L		10/02/26 09:43	10/05/26 13:14	1
Dimethylphthalate	<0.49		0.49		ug/L		10/02/26 09:43	10/05/26 13:14	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		10/02/26 09:43	10/05/26 13:14	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Endosulfan sulfate	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Endrin	<0.0098		0.0098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Endrin aldehyde	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
EPTC	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1

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

Lab Sample ID: MB 380-256032/21-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256032

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Fluorene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
gamma-Chlordane	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Heptachlor	<0.0098		0.0098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Hexachlorobenzene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Isophorone	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Lindane	<0.0098		0.0098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Malathion	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Methoxychlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Metolachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Molinate	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Naphthalene	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Parathion	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Phenanthrene	<0.039		0.039		ug/L		10/02/26 09:43	10/05/26 13:14	1
Propachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Pyrene	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Simazine	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Terbacil	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Terbuthylazine	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Thiobencarb	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		10/02/26 09:43	10/05/26 13:14	1
trans-Nonachlor	<0.049		0.049		ug/L		10/02/26 09:43	10/05/26 13:14	1
Trifluralin	<0.098		0.098		ug/L		10/02/26 09:43	10/05/26 13:14	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentene, 1,2,3,4,5-pentamethyl-	*0.822*	*T J N*	*ug/L*		*2.55*	*1000154-28-6*	*10/02/26 09:43*	*10/05/26 13:14*	*1*
Bacchotricuneatin c	*0.736*	*T J N*	*ug/L*		*3.03*	*66563-30-2*	*10/02/26 09:43*	*10/05/26 13:14*	*1*
Undecane	*5.30*	*T J N*	*ug/L*		*3.15*	*1120-21-4*	*10/02/26 09:43*	*10/05/26 13:14*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*98*		*70 - 130*	*10/02/26 09:43*	*10/05/26 13:14*	*1*
Perylene-d12	*90*		*70 - 130*	*10/02/26 09:43*	*10/05/26 13:14*	*1*
Triphenylphosphate	*99*		*70 - 130*	*10/02/26 09:43*	*10/05/26 13:14*	*1*

Lab Sample ID: LCS 380-256032/23-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256032

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			1.97	1.93		ug/L		98	70 - 130		
2,4'-DDD			1.97	1.97		ug/L		100	70 - 130		
2,4'-DDE			1.97	2.00		ug/L		102	70 - 130		
2,4'-DDT			1.97	2.04		ug/L		104	70 - 130		

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

Lab Sample ID: LCS 380-256032/23-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.97	2.13		ug/L		108	70 - 130
2,6-Dinitrotoluene	1.97	2.09		ug/L		106	70 - 130
2-Methylnaphthalene	1.97	1.89		ug/L		96	70 - 130
4,4'-DDD	1.97	2.18		ug/L		111	70 - 130
4,4'-DDE	1.97	2.01		ug/L		102	70 - 130
4,4'-DDT	1.97	2.04		ug/L		104	70 - 130
Acenaphthene	1.97	1.96		ug/L		100	70 - 130
Acenaphthylene	1.97	1.78		ug/L		91	70 - 130
Acetochlor	1.97	2.04		ug/L		104	70 - 130
Alachlor	1.97	2.06		ug/L		105	70 - 130
alpha-BHC	1.97	2.05		ug/L		104	70 - 130
alpha-Chlordane	1.97	2.00		ug/L		102	70 - 130
Anthracene	1.97	1.68		ug/L		86	70 - 130
Atrazine	1.97	2.18		ug/L		111	70 - 130
Benz(a)anthracene	1.97	2.05		ug/L		104	70 - 130
Benzo[a]pyrene	1.97	1.93		ug/L		98	70 - 130
Benzo[b]fluoranthene	1.97	1.97		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.97	2.02		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.97	1.91		ug/L		97	70 - 130
beta-BHC	1.97	2.21		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.99		ug/L		101	70 - 130
Bromacil	1.97	1.99		ug/L		101	70 - 130
Butachlor	1.97	2.09		ug/L		106	70 - 130
Butylbenzylphthalate	1.97	2.19		ug/L		112	70 - 130
Chlorobenzilate	1.97	2.07		ug/L		105	70 - 130
Chloroneb	1.97	2.06		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.09		ug/L		106	70 - 130
Chlorpyrifos	1.97	2.03		ug/L		103	70 - 130
Chrysene	1.97	1.86		ug/L		95	70 - 130
delta-BHC	1.97	2.07		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.20		ug/L		112	70 - 130
Dibenz(a,h)anthracene	1.97	1.98		ug/L		101	70 - 130
Diclorvos (DDVP)	1.97	1.87		ug/L		95	70 - 130
Dieldrin	1.97	2.04		ug/L		104	70 - 130
Diethylphthalate	1.97	2.12		ug/L		108	70 - 130
Dimethylphthalate	1.97	2.03		ug/L		103	70 - 130
Di-n-butyl phthalate	3.93	4.08		ug/L		104	70 - 130
Di-n-octyl phthalate	1.97	1.97		ug/L		100	70 - 130
Endosulfan I (Alpha)	1.97	2.08		ug/L		106	70 - 130
Endosulfan II (Beta)	1.97	1.99		ug/L		101	70 - 130
Endosulfan sulfate	1.97	2.04		ug/L		104	70 - 130
Endrin	1.97	2.08		ug/L		106	70 - 130
Endrin aldehyde	1.97	2.02		ug/L		103	60 - 130
EPTC	1.97	1.96		ug/L		100	70 - 130
Fluoranthene	1.97	2.02		ug/L		103	70 - 130
Fluorene	1.97	2.06		ug/L		105	70 - 130
gamma-Chlordane	1.97	2.10		ug/L		107	70 - 130
Heptachlor	1.97	1.87		ug/L		95	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.02		ug/L		103	70 - 130

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

Lab Sample ID: LCS 380-256032/23-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.97	1.91		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.97	1.76		ug/L		90	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.03		ug/L		103	70 - 130
Isophorone	1.97	1.88		ug/L		96	70 - 130
Lindane	1.97	2.09		ug/L		106	70 - 130
Malathion	1.97	2.02		ug/L		103	70 - 130
Methoxychlor	1.97	2.01		ug/L		102	70 - 130
Metolachlor	1.97	2.13		ug/L		108	70 - 130
Molinate	1.97	2.04		ug/L		104	70 - 130
Naphthalene	1.97	1.81		ug/L		92	70 - 130
Parathion	1.97	2.06		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.97	2.03		ug/L		103	70 - 130
Phenanthrene	1.97	1.98		ug/L		101	70 - 130
Propachlor	1.97	2.12		ug/L		108	70 - 130
Pyrene	1.97	2.08		ug/L		106	70 - 130
Simazine	1.97	2.12		ug/L		108	70 - 130
Terbacil	1.97	2.06		ug/L		105	70 - 130
Terbuthylazine	1.97	2.16		ug/L		110	70 - 130
Thiobencarb	1.97	2.06		ug/L		105	70 - 130
trans-Nonachlor	1.97	1.97		ug/L		100	70 - 130
Trifluralin	1.97	2.00		ug/L		101	70 - 130

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

Lab Sample ID: MRL 380-256032/22-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.0813	J	ug/L		83	50 - 150
2,4'-DDD	0.0983	0.0883	J	ug/L		90	50 - 150
2,4'-DDE	0.0983	0.0934	J	ug/L		95	50 - 150
2,4'-DDT	0.0983	0.101		ug/L		103	50 - 150
2,4-Dinitrotoluene	0.0983	0.0992		ug/L		101	50 - 150
2,6-Dinitrotoluene	0.0983	0.105		ug/L		106	50 - 150
2-Methylnaphthalene	0.0983	0.0830	J	ug/L		84	50 - 150
4,4'-DDD	0.0983	0.102		ug/L		104	50 - 150
4,4'-DDE	0.0983	0.0953	J	ug/L		97	50 - 150
4,4'-DDT	0.0983	0.101		ug/L		103	50 - 150
Acenaphthene	0.0983	0.0878	J	ug/L		89	50 - 150
Acenaphthylene	0.0983	0.0778	J	ug/L		79	50 - 150
Acetochlor	0.0983	0.103		ug/L		104	50 - 150
Alachlor	0.0491	0.0501		ug/L		102	50 - 150
alpha-BHC	0.0983	0.101		ug/L		103	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		97	50 - 150

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

Lab Sample ID: MRL 380-256032/22-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0197	0.0192	J	ug/L		97	50 - 150
Atrazine	0.0491	0.0544		ug/L		111	50 - 150
Benz(a)anthracene	0.0491	0.0485	J	ug/L		99	50 - 150
Benzo[a]pyrene	0.0197	0.0208		ug/L		106	50 - 150
Benzo[b]fluoranthene	0.0197	0.0199	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0435	J	ug/L		88	50 - 150
Benzo[k]fluoranthene	0.0197	0.0197	J	ug/L		100	50 - 150
beta-BHC	0.0983	0.103		ug/L		104	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.546	J	ug/L		93	50 - 150
Bromacil	0.0983	0.0944	J	ug/L		96	50 - 150
Butachlor	0.0491	0.0512		ug/L		104	50 - 150
Butylbenzylphthalate	0.491	0.532		ug/L		108	50 - 150
Chlorobenzilate	0.0983	0.0955	J	ug/L		97	50 - 150
Chloroneb	0.0983	0.100		ug/L		102	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.104		ug/L		106	50 - 150
Chlorpyrifos	0.0491	0.0496		ug/L		101	50 - 150
Chrysene	0.0197	0.0224		ug/L		114	50 - 150
delta-BHC	0.0983	0.0997		ug/L		101	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.602		ug/L		102	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0412	J	ug/L		84	50 - 150
Diclorvos (DDVP)	0.0491	0.0538		ug/L		109	50 - 150
Dieldrin	0.00983	0.00856	J	ug/L		87	50 - 150
Diethylphthalate	0.491	0.539		ug/L		110	50 - 150
Dimethylphthalate	0.491	0.510		ug/L		104	50 - 150
Di-n-butyl phthalate	0.491	0.444	J	ug/L		90	49 - 243
Di-n-octyl phthalate	0.0983	0.0811	J	ug/L		82	50 - 150
Endosulfan I (Alpha)	0.0983	0.0780	J	ug/L		79	50 - 150
Endosulfan II (Beta)	0.0983	0.108		ug/L		110	50 - 150
Endosulfan sulfate	0.0983	0.102		ug/L		104	50 - 150
Endrin	0.00983	0.00995		ug/L		101	50 - 150
Endrin aldehyde	0.0983	0.100		ug/L		102	50 - 150
EPTC	0.0983	0.0920	J	ug/L		94	50 - 150
Fluoranthene	0.0983	0.0967	J	ug/L		98	50 - 150
Fluorene	0.0491	<0.049		ug/L		95	50 - 150
gamma-Chlordane	0.0246	0.0244	J	ug/L		99	50 - 150
Heptachlor	0.00983	0.00878	J	ug/L		89	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.0128		ug/L		130	50 - 150
Hexachlorobenzene	0.0491	<0.040		ug/L		80	50 - 150
Hexachlorocyclopentadiene	0.0491	<0.037		ug/L		71	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0465	J	ug/L		95	50 - 150
Isophorone	0.0983	0.0983		ug/L		100	50 - 150
Lindane	0.00983	0.0110		ug/L		112	50 - 150
Malathion	0.0983	0.0992		ug/L		101	50 - 150
Methoxychlor	0.0491	0.0501		ug/L		102	50 - 150
Metolachlor	0.0491	0.0479	J	ug/L		97	50 - 150
Molinate	0.0983	0.108		ug/L		110	50 - 150
Naphthalene	0.0983	0.0826	J	ug/L		84	50 - 150
Parathion	0.0983	0.0898	J	ug/L		91	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.0843	J	ug/L		86	50 - 150

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

Lab Sample ID: MRL 380-256032/22-A
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0393	0.0395		ug/L		100	50 - 150
Propachlor	0.0491	0.0518		ug/L		105	50 - 150
Pyrene	0.0491	0.0457	J	ug/L		93	50 - 150
Simazine	0.0491	0.0540		ug/L		110	50 - 150
Terbacil	0.0983	0.0961	J	ug/L		98	50 - 150
Terbuthylazine	0.0983	0.103		ug/L		105	50 - 150
Thiobencarb	0.0983	0.102		ug/L		104	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		93	50 - 150
Trifluralin	0.0983	0.0925	J	ug/L		94	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*97*		*70 - 130*
Perylene-d12	*91*		*70 - 130*
Triphenylphosphate	*97*		*70 - 130*

Lab Sample ID: 380-239093-BD-1-A MS
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		1.98	2.01		ug/L		102	70 - 130
2,4'-DDD	<0.099		1.98	1.94		ug/L		98	70 - 130
2,4'-DDE	<0.099		1.98	1.94		ug/L		98	70 - 130
2,4'-DDT	<0.099		1.98	1.95		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.099		1.98	2.08		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.099		1.98	2.08		ug/L		105	70 - 130
2-Methylnaphthalene	<0.099		1.98	2.00		ug/L		101	70 - 130
4,4'-DDD	<0.099		1.98	2.13		ug/L		108	70 - 130
4,4'-DDE	<0.099		1.98	1.91		ug/L		97	70 - 130
4,4'-DDT	<0.099		1.98	1.92		ug/L		97	70 - 130
Acenaphthene	<0.099		1.98	2.00		ug/L		101	70 - 130
Acenaphthylene	<0.099		1.98	1.82		ug/L		92	70 - 130
Acetochlor	<0.099		1.98	2.06		ug/L		104	70 - 130
Alachlor	<0.049		1.98	2.08		ug/L		105	70 - 130
alpha-BHC	<0.099		1.98	2.03		ug/L		103	70 - 130
alpha-Chlordane	<0.049		1.98	1.98		ug/L		100	70 - 130
Anthracene	<0.020	F1	1.98	1.31	F1	ug/L		66	70 - 130
Atrazine	<0.049		1.98	2.12		ug/L		107	70 - 130
Benz(a)anthracene	<0.049		1.98	2.02		ug/L		102	70 - 130
Benzo[a]pyrene	<0.020		1.98	1.88		ug/L		95	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.00		ug/L		101	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	2.00		ug/L		101	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	2.01		ug/L		102	70 - 130
beta-BHC	<0.099		1.98	2.13		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.78		ug/L		90	70 - 130
Bromacil	<0.099		1.98	1.90		ug/L		96	70 - 130
Butachlor	<0.049		1.98	2.08		ug/L		106	70 - 130
Butylbenzylphthalate	<0.49		1.98	2.16		ug/L		109	70 - 130

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

Lab Sample ID: 380-239093-BD-1-A MS
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.099		1.98	2.10		ug/L		106	70 - 130
Chloroneb	<0.099		1.98	2.06		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.98	2.09		ug/L		106	70 - 130
Chlorpyrifos	<0.049		1.98	2.07		ug/L		105	70 - 130
Chrysene	<0.020		1.98	1.92		ug/L		97	70 - 130
delta-BHC	<0.099		1.98	2.06		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	1.98		ug/L		100	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	1.83		ug/L		93	70 - 130
Diclorvos (DDVP)	<0.049		1.98	1.88		ug/L		95	70 - 130
Dieldrin	<0.0099		1.98	2.06		ug/L		104	70 - 130
Diethylphthalate	<0.49		1.98	2.11		ug/L		107	70 - 130
Dimethylphthalate	<0.49		1.98	2.04		ug/L		103	70 - 130
Di-n-butyl phthalate	<0.99		3.95	4.11		ug/L		104	70 - 130
Di-n-octyl phthalate	<0.099		1.98	1.72		ug/L		87	70 - 130
Endosulfan I (Alpha)	<0.099		1.98	2.04		ug/L		103	70 - 130
Endosulfan II (Beta)	<0.099		1.98	1.96		ug/L		99	70 - 130
Endosulfan sulfate	<0.099		1.98	2.03		ug/L		103	70 - 130
Endrin	<0.0099		1.98	2.12		ug/L		107	70 - 130
Endrin aldehyde	<0.099		1.98	1.70		ug/L		86	60 - 130
EPTC	<0.099		1.98	2.01		ug/L		102	70 - 130
Fluoranthene	<0.099		1.98	2.03		ug/L		103	70 - 130
Fluorene	<0.049		1.98	2.08		ug/L		105	70 - 130
gamma-Chlordane	<0.049		1.98	2.07		ug/L		105	70 - 130
Heptachlor	<0.0099		1.98	1.91		ug/L		97	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		1.98	2.03		ug/L		103	70 - 130
Hexachlorobenzene	<0.049		1.98	1.96		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.049		1.98	1.93		ug/L		98	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.98	1.98		ug/L		100	70 - 130
Isophorone	<0.099		1.98	1.98		ug/L		100	70 - 130
Lindane	<0.0099		1.98	2.11		ug/L		107	70 - 130
Malathion	<0.099		1.98	2.01		ug/L		102	70 - 130
Methoxychlor	<0.049		1.98	2.07		ug/L		105	70 - 130
Metolachlor	<0.049		1.98	2.13		ug/L		108	70 - 130
Molinate	<0.099		1.98	2.03		ug/L		103	70 - 130
Naphthalene	<0.099		1.98	1.91		ug/L		97	70 - 130
Parathion	<0.099		1.98	2.09		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	<0.099		1.98	2.05		ug/L		104	70 - 130
Phenanthrene	<0.039		1.98	2.02		ug/L		102	70 - 130
Propachlor	<0.049		1.98	2.08		ug/L		105	70 - 130
Pyrene	<0.049		1.98	2.08		ug/L		105	70 - 130
Simazine	<0.049		1.98	2.03		ug/L		103	70 - 130
Terbacil	<0.099		1.98	1.92		ug/L		97	70 - 130
Terbuthylazine	<0.099		1.98	2.12		ug/L		107	70 - 130
Thiobencarb	<0.099		1.98	2.09		ug/L		106	70 - 130
trans-Nonachlor	<0.049		1.98	1.93		ug/L		98	70 - 130
Trifluralin	<0.099		1.98	2.03		ug/L		103	70 - 130

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

Lab Sample ID: 380-239093-BD-1-A MS
Matrix: Water
Analysis Batch: 256367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 256032

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*97*		*70 - 130*
Perylene-d12	*98*		*70 - 130*
Triphenylphosphate	*103*		*70 - 130*

Lab Sample ID: 380-239282-1 DU
Matrix: Water
Analysis Batch: 256367

Client Sample ID: HALAWA SHAFT VIEWING POOL
Prep Type: Total/NA
Prep Batch: 256032

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

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

Lab Sample ID: 380-239282-1 DU
Matrix: Water
Analysis Batch: 256367

Client Sample ID: HALAWA SHAFT VIEWING POOL
Prep Type: Total/NA
Prep Batch: 256032

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Dimethylphthalate	<0.49			<0.49		ug/L				NC	20
Di-n-butyl phthalate	<0.97			<0.97		ug/L				NC	20
Di-n-octyl phthalate	<0.097			<0.097		ug/L				NC	20
Endosulfan I (Alpha)	<0.097			<0.097		ug/L				NC	20
Endosulfan II (Beta)	<0.097			<0.097		ug/L				NC	20
Endosulfan sulfate	<0.097			<0.097		ug/L				NC	20
Endrin	<0.0097			<0.0097		ug/L				NC	20
Endrin aldehyde	<0.097			<0.097		ug/L				NC	20
EPTC	<0.097			<0.097		ug/L				NC	20
Fluoranthene	<0.097			<0.097		ug/L				NC	20
Fluorene	<0.049			<0.049		ug/L				NC	20
gamma-Chlordane	<0.049			<0.049		ug/L				NC	20
Heptachlor	<0.0097			<0.0097		ug/L				NC	20
Heptachlor epoxide (isomer B)	<0.0097			<0.0097		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	<0.097			<0.097		ug/L				NC	20
Lindane	<0.0097			<0.0097		ug/L				NC	20
Malathion	<0.097			<0.097		ug/L				NC	20
Methoxychlor	<0.049			<0.049		ug/L				NC	20
Metolachlor	<0.049			<0.049		ug/L				NC	20
Molinate	<0.097			<0.097		ug/L				NC	20
Naphthalene	<0.097			<0.097		ug/L				NC	20
Parathion	<0.097			<0.097		ug/L				NC	20
Pendimethalin (Penoxaline)	<0.097			<0.097		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	<0.097			<0.097		ug/L				NC	20
Terbuthylazine	<0.097			<0.097		ug/L				NC	20
Thiobencarb	<0.097			<0.097		ug/L				NC	20
Total Permethrin (mixed isomers)	<0.19			<0.19		ug/L				NC	20
trans-Nonachlor	<0.049			<0.049		ug/L				NC	20
Trifluralin	<0.097			<0.097		ug/L				NC	20

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

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

Lab Sample ID: MB 570-809766/1-A
Matrix: Water
Analysis Batch: 811638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 809766

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	10/03/26 07:30	10/07/26 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		33 - 139	10/03/26 07:30	10/07/26 10:59	1
2-Fluorobiphenyl (Surr)	85		33 - 126	10/03/26 07:30	10/07/26 10:59	1
2-Fluorophenol (Surr)	57		12 - 120	10/03/26 07:30	10/07/26 10:59	1
Nitrobenzene-d5 (Surr)	94		36 - 120	10/03/26 07:30	10/07/26 10:59	1
Phenol-d6 (Surr)	38		10 - 120	10/03/26 07:30	10/07/26 10:59	1
p-Terphenyl-d14 (Surr)	88		47 - 131	10/03/26 07:30	10/07/26 10:59	1

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

Lab Sample ID: MB 570-809766/1-A
Matrix: Water
Analysis Batch: 811118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 809766

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
2-Methylnaphthalene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Acenaphthene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Acenaphthylene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Anthracene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Benzo[a]anthracene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Benzo[a]pyrene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Chrysene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Fluoranthene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Fluorene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Naphthalene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Phenanthrene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1
Pyrene	<0.20		0.20		ug/L		10/03/26 07:30	10/06/26 16:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		28 - 127	10/03/26 07:30	10/06/26 16:43	1
2-Fluorobiphenyl (Surr)	90		31 - 120	10/03/26 07:30	10/06/26 16:43	1
2-Fluorophenol (Surr)	62		17 - 120	10/03/26 07:30	10/06/26 16:43	1
Nitrobenzene-d5 (Surr)	94		27 - 120	10/03/26 07:30	10/06/26 16:43	1
Phenol-d6 (Surr)	37		10 - 120	10/03/26 07:30	10/06/26 16:43	1
p-Terphenyl-d14 (Surr)	88		45 - 120	10/03/26 07:30	10/06/26 16:43	1

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

Lab Sample ID: LCS 570-809766/2-A
Matrix: Water
Analysis Batch: 811118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 809766

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			20.0	11.9		ug/L		59	47 - 120		
2-Methylnaphthalene			20.0	12.4		ug/L		62	43 - 120		
Acenaphthene			20.0	16.8		ug/L		84	60 - 132		
Acenaphthylene			20.0	17.7		ug/L		89	54 - 126		
Anthracene			20.0	17.9		ug/L		89	43 - 120		
Benzo[a]anthracene			20.0	19.5		ug/L		98	42 - 133		
Benzo[a]pyrene			20.0	22.7		ug/L		114	32 - 148		
Benzo[b]fluoranthene			20.0	20.3		ug/L		102	42 - 140		
Benzo[g,h,i]perylene			20.0	18.7		ug/L		94	1 - 195		
Benzo[k]fluoranthene			20.0	19.8		ug/L		99	25 - 146		
Chrysene			20.0	18.3		ug/L		92	44 - 140		
Dibenz(a,h)anthracene			20.0	18.8		ug/L		94	1 - 200		
Fluoranthene			20.0	18.2		ug/L		91	43 - 121		
Fluorene			20.0	17.9		ug/L		90	70 - 120		
Indeno[1,2,3-cd]pyrene			20.0	19.4		ug/L		97	1 - 151		
Naphthalene			20.0	11.6		ug/L		58	36 - 120		
Phenanthrene			20.0	18.1		ug/L		90	65 - 120		
Pyrene			20.0	19.9		ug/L		99	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*28 - 127*
2-Fluorobiphenyl (Surr)	*93*		*31 - 120*
2-Fluorophenol (Surr)	*73*		*17 - 120*
Nitrobenzene-d5 (Surr)	*69*		*27 - 120*
Phenol-d6 (Surr)	*46*		*10 - 120*
p-Terphenyl-d14 (Surr)	*107*		*45 - 120*

Lab Sample ID: LCSD 570-809766/3-A
Matrix: Water
Analysis Batch: 811118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 809766

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			20.0	12.0		ug/L		60	47 - 120	1	20
2-Methylnaphthalene			20.0	12.3		ug/L		62	43 - 120	1	20
Acenaphthene			20.0	17.2		ug/L		86	60 - 132	3	29
Acenaphthylene			20.0	18.2		ug/L		91	54 - 126	2	45
Anthracene			20.0	18.5		ug/L		93	43 - 120	4	40
Benzo[a]anthracene			20.0	20.0		ug/L		100	42 - 133	3	32
Benzo[a]pyrene			20.0	23.6		ug/L		118	32 - 148	4	43
Benzo[b]fluoranthene			20.0	21.2		ug/L		106	42 - 140	4	43
Benzo[g,h,i]perylene			20.0	19.7		ug/L		98	1 - 195	5	61
Benzo[k]fluoranthene			20.0	20.9		ug/L		104	25 - 146	5	38
Chrysene			20.0	18.9		ug/L		94	44 - 140	3	53
Dibenz(a,h)anthracene			20.0	19.5		ug/L		97	1 - 200	3	75
Fluoranthene			20.0	18.8		ug/L		94	43 - 121	3	40
Fluorene			20.0	18.5		ug/L		92	70 - 120	3	23
Indeno[1,2,3-cd]pyrene			20.0	20.3		ug/L		101	1 - 151	5	60
Naphthalene			20.0	11.8		ug/L		59	36 - 120	1	39

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

Lab Sample ID: LCSD 570-809766/3-A
Matrix: Water
Analysis Batch: 811118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 809766

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	18.7		ug/L		94	65 - 120	4	24
Pyrene			20.0	19.7		ug/L		99	70 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*28 - 127*
2-Fluorobiphenyl (Surr)	*93*		*31 - 120*
2-Fluorophenol (Surr)	*72*		*17 120*
Nitrobenzene-d5 (Surr)	*68*		*27 - 120*
Phenol-d6 (Surr)	*46*		*10 - 120*
p-Terphenyl-d14 (Surr)	*108*		*45 - 120*

Lab Sample ID: 380-238986-A-1-A MS
Matrix: Water
Analysis Batch: 811118

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 809766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	12.2		ug/L		63	36 - 120
2-Methylnaphthalene	<0.19		19.3	12.7		ug/L		66	32 - 124
Acenaphthene	<0.19		19.3	17.3		ug/L		89	47 - 145
Acenaphthylene	<0.19		19.3	18.0		ug/L		93	33 - 145
Anthracene	<0.19		19.3	18.4		ug/L		95	27 - 133
Benzo[a]anthracene	<0.19		19.3	20.3		ug/L		105	33 - 143
Benzo[a]pyrene	<0.19		19.3	23.5		ug/L		122	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	21.1		ug/L		109	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	19.1		ug/L		99	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	20.5		ug/L		106	11 - 162
Chrysene	<0.19		19.3	19.0		ug/L		99	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	19.2		ug/L		100	1 - 227
Fluoranthene	<0.19		19.3	18.4		ug/L		95	26 - 137
Fluorene	<0.19		19.3	18.5		ug/L		96	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	19.8		ug/L		103	1 - 171
Naphthalene	<0.19		19.3	11.9		ug/L		62	21 - 133
Phenanthrene	<0.19		19.3	18.5		ug/L		96	54 - 120
Pyrene	<0.19		19.3	20.6		ug/L		107	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*94*		*28 - 127*
2-Fluorobiphenyl (Surr)	*95*		*31 - 120*
2-Fluorophenol (Surr)	*73*		*17 - 120*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*
Phenol-d6 (Surr)	*46*		*10 - 120*
p-Terphenyl-d14 (Surr)	*110*		*45 - 120*

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

Lab Sample ID: 380-238986-A-1-B MSD
Matrix: Water
Analysis Batch: 811118

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 809766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.4	11.8		ug/L		61	36 - 120	3	30
2-Methylnaphthalene	<0.19		19.4	12.3		ug/L		64	32 - 124	3	30
Acenaphthene	<0.19		19.4	16.5		ug/L		85	47 - 145	4	48
Acenaphthylene	<0.19		19.4	17.1		ug/L		88	33 - 145	5	74
Anthracene	<0.19		19.4	17.4		ug/L		90	27 - 133	6	66
Benzo[a]anthracene	<0.19		19.4	19.3		ug/L		100	33 - 143	5	53
Benzo[a]pyrene	<0.19		19.4	22.1		ug/L		114	17 - 163	6	72
Benzo[b]fluoranthene	<0.19		19.4	20.2		ug/L		104	24 - 159	4	71
Benzo[g,h,i]perylene	<0.19		19.4	18.5		ug/L		95	1 - 219	3	97
Benzo[k]fluoranthene	<0.19		19.4	19.0		ug/L		98	11 - 162	7	63
Chrysene	<0.19		19.4	17.8		ug/L		92	17 - 168	6	87
Dibenz(a,h)anthracene	<0.19		19.4	18.3		ug/L		94	1 - 227	5	126
Fluoranthene	<0.19		19.4	17.6		ug/L		91	26 - 137	4	66
Fluorene	<0.19		19.4	17.6		ug/L		91	59 - 121	5	38
Indeno[1,2,3-cd]pyrene	<0.19		19.4	19.2		ug/L		99	1 - 171	3	99
Naphthalene	<0.19		19.4	11.5		ug/L		59	21 - 133	3	65
Phenanthrene	<0.19		19.4	17.5		ug/L		90	54 - 120	5	39
Pyrene	<0.19		19.4	19.5		ug/L		101	52 - 120	5	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*28 - 127*
2-Fluorobiphenyl (Surr)	*89*		*31 - 120*
2-Fluorophenol (Surr)	*68*		*17 - 120*
Nitrobenzene-d5 (Surr)	*66*		*27 - 120*
Phenol-d6 (Surr)	*42*		*10 - 120*
p-Terphenyl-d14 (Surr)	*105*		*45 - 120*

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

Lab Sample ID: MB 570-809982/6
Matrix: Water
Analysis Batch: 809982

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			10/04/26 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*		*10/04/26 11:46*	*1*

Lab Sample ID: LCS 570-809982/3
Matrix: Water
Analysis Batch: 809982

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	416		ug/L		104	78 - 120

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

Lab Sample ID: LCS 570-809982/3
Matrix: Water
Analysis Batch: 809982

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

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

Lab Sample ID: LCSD 570-809982/4
Matrix: Water
Analysis Batch: 809982

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	386		ug/L		97	78 - 120	7	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*

Lab Sample ID: MRL 570-809982/7
Matrix: Water
Analysis Batch: 809982

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	12.4		ug/L		124	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*38 - 134*

Lab Sample ID: 380-238986-B-1 MS
Matrix: Water
Analysis Batch: 809982

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	359		ug/L		90	68 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*

Lab Sample ID: 380-238986-B-1 MSD
Matrix: Water
Analysis Batch: 809982

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	371		ug/L		93	68 - 122	3	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*38 - 134*

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

Lab Sample ID: MB 570-810072/1-A
Matrix: Water
Analysis Batch: 813492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810072

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		10/04/26 15:27	10/10/26 15:38	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		10/04/26 15:27	10/10/26 15:38	1
C8-C18	<25		25		ug/L		10/04/26 15:27	10/10/26 15:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*102*		*60 - 130*	*10/04/26 15:27*	*10/10/26 15:38*	*1*

Lab Sample ID: LCS 570-810072/2-A
Matrix: Water
Analysis Batch: 813492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810072

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	901		ug/L		56	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*73*		*60 - 130*

Lab Sample ID: LCSD 570-810072/3-A
Matrix: Water
Analysis Batch: 813492

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 810072

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1190	*1	ug/L		74	56 - 127	27	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*97*		*60 - 130*

Lab Sample ID: MRL 570-810072/4-A
Matrix: Water
Analysis Batch: 813492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810072

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0310	^3+	mg/L		155	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*99*		*60 - 130*

Lab Sample ID: 380-238986-C-1-A MS
Matrix: Water
Analysis Batch: 813492

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 810072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26	^3+ F1 *1 F2	1660	905	F1	ug/L		55	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*66*		*60 - 130*

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

Lab Sample ID: 380-238986-C-1-B MSD
Matrix: Water
Analysis Batch: 813492

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 810072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	^3+ F1 *1 F2	1630	1300	F2	ug/L		79	70 - 130	36	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*97*		*60 - 130*

QC Association Summary

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 256032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-256032/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-256032/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-256032/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-239093-BD-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-239282-1 DU	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	

Analysis Batch: 256367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	256032
MB 380-256032/21-A	Method Blank	Total/NA	Water	525.2	256032
LCS 380-256032/23-A	Lab Control Sample	Total/NA	Water	525.2	256032
MRL 380-256032/22-A	Lab Control Sample	Total/NA	Water	525.2	256032
380-239093-BD-1-A MS	Matrix Spike	Total/NA	Water	525.2	256032
380-239282-1 DU	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	256032

Prep Batch: 809766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-809766/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-809766/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-809766/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-238986-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-238986-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 811118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	809766
MB 570-809766/1-A	Method Blank	Total/NA	Water	625.1 SIM	809766
LCS 570-809766/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	809766
LCSD 570-809766/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	809766
380-238986-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	809766
380-238986-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	809766

Analysis Batch: 811638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	809766
MB 570-809766/1-A	Method Blank	Total/NA	Water	625.1	809766

GC VOA

Analysis Batch: 809982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-239282-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-809982/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-809982/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-809982/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-809982/7	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-238986-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-238986-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 810072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-810072/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-810072/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-810072/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-810072/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-238986-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-238986-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 813492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-239282-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	810072
MB 570-810072/1-A	Method Blank	Total/NA	Water	8015B	810072
LCS 570-810072/2-A	Lab Control Sample	Total/NA	Water	8015B	810072
LCSD 570-810072/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	810072
MRL 570-810072/4-A	Lab Control Sample	Total/NA	Water	8015B	810072
380-238986-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	810072
380-238986-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	810072

Lab Chronicle

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

Job ID: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-239282-1
Matrix: Water
Date Collected: 09/29/26 09:30
Date Received: 10/01/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			256032	H3MJ	EA POM	10/02/26 09:43
Total/NA	Analysis	525.2		1	256367	Q8LA	EA POM	10/05/26 14:57
Total/NA	Prep	625.1			809766	KLZQ	EET CAL 4	10/03/26 07:30
Total/NA	Analysis	625.1		1	811638	PQS1	EET CAL 4	10/07/26 13:35
Total/NA	Prep	625.1			809766	KLZQ	EET CAL 4	10/03/26 07:30
Total/NA	Analysis	625.1 SIM		1	811118	S4EA	EET CAL 4	10/06/26 21:53
Total/NA	Analysis	8015B GRO LL		1	809982	W4LC	EET CAL 4	10/04/26 15:03
Total/NA	Prep	3510C			810072	ATRL	EET CAL 4	10/04/26 15:27
Total/NA	Analysis	8015B		1	813492	H6FE	EET CAL 4	10/10/26 17:47

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-239282-2
Matrix: Water
Date Collected: 09/29/26 09:30
Date Received: 10/01/26 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	809982	W4LC	EET CAL 4	10/04/26 19:50

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: 380-239282-1
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	Terbuthylazine
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

Accreditation/Certification Summary

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

Job ID: 380-239282-1
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	01-01-27
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: 380-239282-1
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: 380-239282-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-239282-1	HALAWA SHAFT VIEWING POOL	Water	09/29/26 09:30	10/01/26 10:00	Hawaii
380-239282-2	TB: HALAWA SHAFT VIEWING POOL	Water	09/29/26 09:30	10/01/26 10:00	Hawaii

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record

eurofins

380-239282 COC

Client Information	Sampler: Patrick Regan	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No:
Client Contact: Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5840 (Tel)	PO #:			
Email: kiwamoto@hbws.org	WO #:			
Project Name:	Project #:			
Site: Hawaii	SSOW#:			

Analysis Requested

Preservation Codes
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1_SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18	625.2_PREC - (MOD) 525plus Plus TICs															Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA																
HALAWA SHAFT VIEWING POOL	29-Sep-2026	09.30	G	Water			2	3	2	2																
TB HALAWA SHAFT VIEWING POOL	29-Sep-2026		G	Water				2																		
FB. HALAWA SHAFT VIEWING POOL	~~29-Sep-2026~~	~~09:30~~	PR 9/29/26																							

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

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

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

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time.	Method of Shipment: FedEx

	Date/Time	Company	Received by	Date/Time	Company
[redacted]	9/30/26 12.00	HBWS	[redacted]	10/1/26 1000	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: (63(A)) 1.2+0.2-1.4 gel frozen

Ver: 04/02/2024

10/12/2026

Eurofins Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record

eurofins | En

Loc: 380
239282

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-387951.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State - Hawaii		Job #: 380-239282-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 10/12/2026	Analysis Requested		Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_C6/3510C_LLHNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	625.1/625_Prep(MOD) Tentatively Identified Compounds (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
HALAWA SHAFT VIEWING POOL (380-239282-1)	9/29/26	09:30 Hawaiian	G	Water			X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: HALAWA SHAFT VIEWING POOL (380-239282-2)	9/29/26	09:30 Hawaiian	G	Water				X			2	MRLs are needed. Confirm any hits >RL.

380-239282 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater West, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater West, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater West, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater West, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	10/1/26 1600	CLAP	[illegible]	10.01 1610	GAY
Relinquished by: [illegible]	Date/Time: 10.01 1710	Company GAY	Received by: [illegible]	Date/Time: 10/1/26 1710	Company IRC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.5/1.7 IR-8

Ver: 08/18/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-239282-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 239282
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	
ClO4 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: 380-239282-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 239282
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 10/01/26 07:39 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	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	