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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/26/2025 8:33:56 AM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-181323-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

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 Eaton Analytical, 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: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control 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

Job Narrative
380-181323-1

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 11/6/2025 9:45 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 1.9°C.

GC/MS Semi VOA
Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-653985.

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

Gasoline Range Organics
Method 8015B_GRO_LL: One or more containers for the following sample was received broken or leaking: HALAWA SHAFT VIEWING POOL (380-181323-1). 8015B_GRO - Received 1 of 3 vials broken, however enough volume was available for analysis.

Method 8015B_GRO_LL: The matrix spike and matrix spike duplicate (MS/MSD) associated with 570-254887-D-5 (parent sample) in analytical batch 570-656984 could not be reported due to parent sample was over diluted. The LCS/LCSD were performed and met acceptance criteria.

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

Diesel Range Organics
Method 8015B_DRO_LL_CS: Surrogate recovery for the following sample was outside the upper control limit: HALAWA SHAFT VIEWING POOL (380-181323-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B_DRO_LL_CS: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (380-181052-B-1-A MS) and (380-181052-B-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and 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: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-181323-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-181323-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

Lab Sample ID: 380-181323-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
2,4'-DDD	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
2,4'-DDE	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
2,4'-DDT	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
2,4-Dinitrotoluene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
2,6-Dinitrotoluene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
2-Methylnaphthalene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
4,4'-DDD	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
4,4'-DDE	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
4,4'-DDT	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Acenaphthene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Acenaphthylene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Acetochlor	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Alachlor	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
alpha-BHC	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
alpha-Chlordane	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Anthracene	<0.019		0.019		ug/L		11/13/25 12:55	11/14/25 10:07	1
Atrazine	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Benz(a)anthracene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Benzo[a]pyrene	<0.019		0.019		ug/L		11/13/25 12:55	11/14/25 10:07	1
Benzo[b]fluoranthene	<0.019		0.019		ug/L		11/13/25 12:55	11/14/25 10:07	1
Benzo[g,h,i]perylene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Benzo[k]fluoranthene	<0.019		0.019		ug/L		11/13/25 12:55	11/14/25 10:07	1
beta-BHC	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58		ug/L		11/13/25 12:55	11/14/25 10:07	1
Bromacil	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Butachlor	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Butylbenzylphthalate	<0.48		0.48		ug/L		11/13/25 12:55	11/14/25 10:07	1
Chlorobenzilate	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Chloroneb	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Chlorpyrifos	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Chrysene	<0.019		0.019		ug/L		11/13/25 12:55	11/14/25 10:07	1
delta-BHC	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Di(2-ethylhexyl)adipate	<0.58		0.58		ug/L		11/13/25 12:55	11/14/25 10:07	1
Dibenz(a,h)anthracene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Diclorvos (DDVP)	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Dieldrin	<0.0096		0.0096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Diethylphthalate	<0.48		0.48		ug/L		11/13/25 12:55	11/14/25 10:07	1
Dimethylphthalate	<0.48		0.48		ug/L		11/13/25 12:55	11/14/25 10:07	1
Di-n-butyl phthalate	<0.96		0.96		ug/L		11/13/25 12:55	11/14/25 10:07	1
Di-n-octyl phthalate	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Endosulfan I (Alpha)	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Endosulfan II (Beta)	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Endosulfan sulfate	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Endrin	<0.0096		0.0096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Endrin aldehyde	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
EPTC	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Fluoranthene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

Lab Sample ID: 380-181323-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
gamma-Chlordane	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Heptachlor	<0.0096		0.0096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Hexachlorobenzene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Hexachlorocyclopentadiene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Isophorone	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Lindane	<0.0096		0.0096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Malathion	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Methoxychlor	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Metolachlor	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Molinate	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Naphthalene	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Parathion	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Pendimethalin (Penoxaline)	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Phenanthrene	<0.038		0.038		ug/L		11/13/25 12:55	11/14/25 10:07	1
Propachlor	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Pyrene	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Simazine	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Terbacil	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Terbuthylazine	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Thiobencarb	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1
Total Permethrin (mixed isomers)	<0.19		0.19		ug/L		11/13/25 12:55	11/14/25 10:07	1
trans-Nonachlor	<0.048		0.048		ug/L		11/13/25 12:55	11/14/25 10:07	1
Trifluralin	<0.096		0.096		ug/L		11/13/25 12:55	11/14/25 10:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*11/13/25 12:55*	*11/14/25 10:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*95*		*70 - 130*	*11/13/25 12:55*	*11/14/25 10:07*	*1*
Perylene-d12	*92*		*70 - 130*	*11/13/25 12:55*	*11/14/25 10:07*	*1*
Triphenylphosphate	*104*		*70 - 130*	*11/13/25 12:55*	*11/14/25 10:07*	*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		11/10/25 14:12	11/20/25 10:06	1
2-Methylnaphthalene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Acenaphthene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Acenaphthylene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Anthracene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Benzo[a]anthracene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Benzo[a]pyrene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Chrysene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Fluoranthene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-181323-1
Matrix: Water
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

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		11/10/25 14:12	11/20/25 10:06	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Naphthalene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Phenanthrene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1
Pyrene	<0.19		0.19		ug/L		11/10/25 14:12	11/20/25 10:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*28 - 127*	*11/10/25 14:12*	*11/20/25 10:06*	*1*
2-Fluorobiphenyl (Surr)	*75*		*31 - 120*	*11/10/25 14:12*	*11/20/25 10:06*	*1*
2-Fluorophenol (Surr)	*47*		*17 - 120*	*11/10/25 14:12*	*11/20/25 10:06*	*1*
Nitrobenzene-d5 (Surr)	*77*		*27 - 120*	*11/10/25 14:12*	*11/20/25 10:06*	*1*
Phenol-d6 (Surr)	*31*		*10 - 120*	*11/10/25 14:12*	*11/20/25 10:06*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 120*	*11/10/25 14:12*	*11/20/25 10:06*	*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*
1,2-Phenylene diisothiocyanate	*2.3*	*T J N*	*ug/L*		*6.93*	*71105-17-4*	*11/10/25 14:12*	*11/20/25 14:16*	*1*
Cyclic octaatomic sulfur	*5.8*	*T J N*	*ug/L*		*9.96*	*10544-50-0*	*11/10/25 14:12*	*11/20/25 14:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*33 - 139*	*11/10/25 14:12*	*11/20/25 14:16*	*1*
2-Fluorobiphenyl (Surr)	*90*		*33 - 126*	*11/10/25 14:12*	*11/20/25 14:16*	*1*
2-Fluorophenol (Surr)	*47*		*12 - 120*	*11/10/25 14:12*	*11/20/25 14:16*	*1*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*	*11/10/25 14:12*	*11/20/25 14:16*	*1*
Phenol-d6 (Surr)	*28*		*10 - 120*	*11/10/25 14:12*	*11/20/25 14:16*	*1*
p-Terphenyl-d14 (Surr)	*88*		*47 - 131*	*11/10/25 14:12*	*11/20/25 14:16*	*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			11/16/25 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*38 - 134*		*11/16/25 21:34*	*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		11/09/25 11:05	11/18/25 01:28	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		11/09/25 11:05	11/18/25 01:28	1
C8-C18	<25		25		ug/L		11/09/25 11:05	11/18/25 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*135*	*S1+*	*60 - 130*	*11/09/25 11:05*	*11/18/25 01:28*	*1*

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-181323-2
Matrix: Water
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

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			11/16/25 19:00	1

Client Sample Results

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

Lab Sample ID: 380-181323-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*38 - 134*		*11/16/25 19:00*	*1*

Action Limit Summary

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-181323-1

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	<0.048		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: 380-181323-1
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)									
Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)							
380-181323-1	HALAWA SHAFT VIEWING PO(	95	92	104							
380-181879-AG-1-A MS	Matrix Spike	99	100	110							
380-182102-O-1-A DU	Duplicate	100	96	107							
LCS 380-186277/22-A	Lab Control Sample	100	100	112							
MB 380-186277/20-A	Method Blank	100	93	107							
MRL 380-186277/21-A	Lab Control Sample	99	96	106							

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)							
Lab Sample ID	Client Sample ID	TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)		
380-181323-1	HALAWA SHAFT VIEWING PO(	76	90	47	80	28	88		
MB 570-653985/1-A	Method Blank	67	84	50	74	31	78		

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)		
380-181323-1	HALAWA SHAFT VIEWING PO(	93	75	47	77	31	76		
LCS 570-653985/2-A	Lab Control Sample	85	72	57	66	38	88		
LCSD 570-653985/3-A	Lab Control Sample Dup	100	91	63	73	41	91		
MB 570-653985/1-A	Method Blank	84	69	55	79	35	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: 380-181323-1
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)
380-181323-1	HALAWA SHAFT VIEWING POO	96
380-181323-2	TB: HALAWA SHAFT VIEWING POOL	96
570-254887-D-5 MS	Matrix Spike	93
570-254887-D-5 MSD	Matrix Spike Duplicate	94
LCS 570-656984/4	Lab Control Sample	90
LCSD 570 656984/5	Lab Control Sample Dup	92
MB 570-656984/6	Method Blank	94
MRL 570-656984/3	Lab Control Sample	93

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)
380-181052-B-1-A MS	Matrix Spike	132 S1+
380-181052-B-1-B MSD	Matrix Spike Duplicate	134 S1+
380-181323-1	HALAWA SHAFT VIEWING POOL	135 S1+
LCS 570-653516/2-A	Lab Control Sample	115
LCSD 570-653516/3-A	Lab Control Sample Dup	102
MB 570-653516/1-A	Method Blank	94
MRL 570-653516/4-A	Lab Control Sample	88

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 380-186277/20-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 186277

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
2,4'-DDD	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
2,4'-DDE	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
2,4'-DDT	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
2-Methylnaphthalene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
4,4'-DDD	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
4,4'-DDE	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
4,4'-DDT	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Acenaphthene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Acenaphthylene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Acetochlor	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Alachlor	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
alpha-BHC	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
alpha-Chlordane	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Anthracene	<0.020		0.020		ug/L		11/13/25 12:55	11/14/25 07:46	1
Atrazine	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Benz(a)anthracene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Benzo[a]pyrene	<0.020		0.020		ug/L		11/13/25 12:55	11/14/25 07:46	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		11/13/25 12:55	11/14/25 07:46	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		11/13/25 12:55	11/14/25 07:46	1
beta-BHC	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		11/13/25 12:55	11/14/25 07:46	1
Bromacil	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Butachlor	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Butylbenzylphthalate	<0.49		0.49		ug/L		11/13/25 12:55	11/14/25 07:46	1
Chlorobenzilate	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Chloroneb	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Chlorpyrifos	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Chrysene	<0.020		0.020		ug/L		11/13/25 12:55	11/14/25 07:46	1
delta-BHC	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		11/13/25 12:55	11/14/25 07:46	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Dieldrin	<0.0098		0.0098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Diethylphthalate	<0.49		0.49		ug/L		11/13/25 12:55	11/14/25 07:46	1
Dimethylphthalate	<0.49		0.49		ug/L		11/13/25 12:55	11/14/25 07:46	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		11/13/25 12:55	11/14/25 07:46	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Endosulfan sulfate	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Endrin	<0.0098		0.0098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Endrin aldehyde	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
EPTC	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1

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

Lab Sample ID: MB 380-186277/20-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 186277

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Fluorene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
gamma-Chlordane	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Heptachlor	<0.0098		0.0098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Hexachlorobenzene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Isophorone	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Lindane	<0.0098		0.0098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Malathion	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Methoxychlor	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Metolachlor	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Molinate	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Naphthalene	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Parathion	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Phenanthrene	<0.039		0.039		ug/L		11/13/25 12:55	11/14/25 07:46	1
Propachlor	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Pyrene	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Simazine	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Terbacil	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Terbuthylazine	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Thiobencarb	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		11/13/25 12:55	11/14/25 07:46	1
trans-Nonachlor	<0.049		0.049		ug/L		11/13/25 12:55	11/14/25 07:46	1
Trifluralin	<0.098		0.098		ug/L		11/13/25 12:55	11/14/25 07:46	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Undecane	*2.00*	*T J N*	*ug/L*		*3.10*	*1120-21-4*	*11/13/25 12:55*	*11/14/25 07:46*	*1*
Phenol, p-tert-butyl-	*0.552*	*T J N*	*ug/L*		*3.83*	*98-54-4*	*11/13/25 12:55*	*11/14/25 07:46*	*1*
9-Octadecenamide, (Z)-	*3.20*	*T J N*	*ug/L*		*7.81*	*301-02-0*	*11/13/25 12:55*	*11/14/25 07:46*	*1*
Unknown	*0.716*	*T J*	*ug/L*		*14.80*	*N/A*	*11/13/25 12:55*	*11/14/25 07:46*	*1*
Unknown	*0.500*	*T J*	*ug/L*		*15.67*	*N/A*	*11/13/25 12:55*	*11/14/25 07:46*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*100*		*70 - 130*	*11/13/25 12:55*	*11/14/25 07:46*	*1*
Perylene-d12	*93*		*70 - 130*	*11/13/25 12:55*	*11/14/25 07:46*	*1*
Triphenylphosphate	*107*		*70 - 130*	*11/13/25 12:55*	*11/14/25 07:46*	*1*

Lab Sample ID: LCS 380-186277/22-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	1.84		ug/L		94	70 - 130
2,4'-DDD	1.96	2.08		ug/L		106	70 - 130
2,4'-DDE	1.96	2.08		ug/L		106	70 - 130

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

Lab Sample ID: LCS 380-186277/22-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.96	2.11		ug/L		108	70 - 130
2,4-Dinitrotoluene	1.96	2.02		ug/L		103	70 - 130
2,6-Dinitrotoluene	1.96	2.03		ug/L		104	70 - 130
2-Methylnaphthalene	1.96	1.84		ug/L		94	70 - 130
4,4'-DDD	1.96	2.13		ug/L		108	70 - 130
4,4'-DDE	1.96	2.11		ug/L		107	70 - 130
4,4'-DDT	1.96	1.96		ug/L		100	70 - 130
Acenaphthene	1.96	1.95		ug/L		99	70 - 130
Acenaphthylene	1.96	1.93		ug/L		98	70 - 130
Acetochlor	1.96	2.21		ug/L		112	70 - 130
Alachlor	1.96	2.17		ug/L		111	70 - 130
alpha-BHC	1.96	1.98		ug/L		101	70 - 130
alpha-Chlordane	1.96	2.14		ug/L		109	70 - 130
Anthracene	1.96	1.94		ug/L		99	70 - 130
Atrazine	1.96	2.09		ug/L		107	70 - 130
Benz(a)anthracene	1.96	1.89		ug/L		96	70 - 130
Benzo[a]pyrene	1.96	1.97		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.96	2.01		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.96	2.05		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.96	1.90		ug/L		97	70 - 130
beta-BHC	1.96	1.98		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	2.14		ug/L		109	70 - 130
Bromacil	1.96	1.83		ug/L		93	70 - 130
Butachlor	1.96	2.20		ug/L		112	70 - 130
Butylbenzylphthalate	1.96	2.31		ug/L		118	70 - 130
Chlorobenzilate	1.96	2.23		ug/L		114	70 - 130
Chloroneb	1.96	1.86		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.20		ug/L		112	70 - 130
Chlorpyrifos	1.96	2.25		ug/L		114	70 - 130
Chrysene	1.96	1.77		ug/L		90	70 - 130
delta-BHC	1.96	1.99		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.38		ug/L		121	70 - 130
Dibenz(a,h)anthracene	1.96	2.04		ug/L		104	70 - 130
Diclorvos (DDVP)	1.96	2.00		ug/L		102	70 - 130
Dieldrin	1.96	2.03		ug/L		103	70 - 130
Diethylphthalate	1.96	2.15		ug/L		110	70 - 130
Dimethylphthalate	1.96	2.07		ug/L		105	70 - 130
Di-n-butyl phthalate	3.93	4.35		ug/L		111	70 - 130
Di-n-octyl phthalate	1.96	2.20		ug/L		112	70 - 130
Endosulfan I (Alpha)	1.96	1.91		ug/L		97	70 - 130
Endosulfan II (Beta)	1.96	1.96		ug/L		100	70 - 130
Endosulfan sulfate	1.96	2.19		ug/L		111	70 - 130
Endrin	1.96	2.19		ug/L		111	70 - 130
Endrin aldehyde	1.96	1.92		ug/L		98	60 - 130
EPTC	1.96	2.10		ug/L		107	70 - 130
Fluoranthene	1.96	2.14		ug/L		109	70 - 130
Fluorene	1.96	1.97		ug/L		100	70 - 130
gamma-Chlordane	1.96	2.19		ug/L		112	70 - 130
Heptachlor	1.96	2.09		ug/L		106	70 - 130

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

Lab Sample ID: LCS 380-186277/22-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.96	2.01		ug/L		102	70 - 130
Hexachlorobenzene	1.96	2.03		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.96	2.05		ug/L		104	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.16		ug/L		110	70 - 130
Isophorone	1.96	2.14		ug/L		109	70 - 130
Lindane	1.96	1.89		ug/L		96	70 - 130
Malathion	1.96	2.05		ug/L		105	70 - 130
Methoxychlor	1.96	2.01		ug/L		103	70 - 130
Metolachlor	1.96	2.04		ug/L		104	70 - 130
Molinate	1.96	2.10		ug/L		107	70 - 130
Naphthalene	1.96	1.90		ug/L		97	70 - 130
Parathion	1.96	2.42		ug/L		123	70 - 130
Pendimethalin (Penoxaline)	1.96	2.24		ug/L		114	70 - 130
Phenanthrene	1.96	1.97		ug/L		100	70 - 130
Propachlor	1.96	2.19		ug/L		112	70 - 130
Pyrene	1.96	2.10		ug/L		107	70 - 130
Simazine	1.96	1.93		ug/L		98	70 - 130
Terbacil	1.96	2.03		ug/L		103	70 - 130
Terbuthylazine	1.96	2.19		ug/L		111	70 - 130
Thiobencarb	1.96	2.30		ug/L		117	70 - 130
trans-Nonachlor	1.96	2.03		ug/L		103	70 - 130
Trifluralin	1.96	2.12		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*100*		*70 - 130*
Perylene-d12	*100*		*70 - 130*
Triphenylphosphate	*112*		*70 - 130*

Lab Sample ID: MRL 380-186277/21-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0985	0.114		ug/L		116	50 - 150
2,4'-DDD	0.0985	0.0848	J	ug/L		86	50 - 150
2,4'-DDE	0.0985	0.100		ug/L		101	50 - 150
2,4'-DDT	0.0985	0.0918	J	ug/L		93	50 - 150
2,4-Dinitrotoluene	0.0985	0.114		ug/L		116	50 - 150
2,6-Dinitrotoluene	0.0985	0.135		ug/L		137	50 - 150
2-Methylnaphthalene	0.0985	0.105		ug/L		107	50 - 150
4,4'-DDD	0.0985	0.0976	J	ug/L		99	50 - 150
4,4'-DDE	0.0985	0.0986	J	ug/L		100	50 - 150
4,4'-DDT	0.0985	0.110		ug/L		112	50 - 150
Acenaphthene	0.0985	0.0907	J	ug/L		92	50 - 150
Acenaphthylene	0.0985	0.0946	J	ug/L		96	50 - 150
Acetochlor	0.0985	0.119		ug/L		121	50 - 150
Alachlor	0.0493	0.0532		ug/L		108	50 - 150
alpha-BHC	0.0985	0.103		ug/L		104	50 - 150

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

Lab Sample ID: MRL 380-186277/21-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.0246	<0.029		ug/L		103	50 - 150
Anthracene	0.0197	0.0221		ug/L		112	50 - 150
Atrazine	0.0493	0.0478	J	ug/L		97	50 - 150
Benz(a)anthracene	0.0493	0.0425	J	ug/L		86	50 - 150
Benzo[a]pyrene	0.0197	0.0255		ug/L		129	50 - 150
Benzo[b]fluoranthene	0.0197	0.0245		ug/L		125	50 - 150
Benzo[g,h,i]perylene	0.0493	0.0570		ug/L		116	50 - 150
Benzo[k]fluoranthene	0.0197	0.0268		ug/L		136	50 - 150
beta-BHC	0.0985	0.107		ug/L		108	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.702		ug/L		119	50 - 150
Bromacil	0.0985	0.118		ug/L		120	50 - 150
Butachlor	0.0493	0.0727		ug/L		148	50 - 150
Butylbenzylphthalate	0.493	0.617		ug/L		125	50 - 150
Chlorobenzilate	0.0985	0.116		ug/L		118	50 - 150
Chloroneb	0.0985	0.0973	J	ug/L		99	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.0908	J	ug/L		92	50 - 150
Chlorpyrifos	0.0493	0.0554		ug/L		112	50 - 150
Chrysene	0.0197	0.0205		ug/L		104	50 - 150
delta-BHC	0.0985	0.0936	J	ug/L		95	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.761		ug/L		129	50 - 150
Dibenz(a,h)anthracene	0.0493	0.0527		ug/L		107	50 - 150
Diclorvos (DDVP)	0.0493	0.0578		ug/L		117	50 - 150
Dieldrin	0.00985	0.00886	J	ug/L		90	50 - 150
Diethylphthalate	0.493	0.560		ug/L		114	50 - 150
Dimethylphthalate	0.493	0.530		ug/L		108	50 - 150
Di-n-butyl phthalate	0.493	0.582	J	ug/L		118	49 - 243
Di-n-octyl phthalate	0.0985	0.114		ug/L		115	50 - 150
Endosulfan I (Alpha)	0.0985	0.0955	J	ug/L		97	50 - 150
Endosulfan II (Beta)	0.0985	0.0877	J	ug/L		89	50 - 150
Endosulfan sulfate	0.0985	0.105		ug/L		106	50 - 150
Endrin	0.00985	0.0136		ug/L		138	50 - 150
Endrin aldehyde	0.0985	0.128		ug/L		130	50 - 150
EPTC	0.0985	0.106		ug/L		108	50 - 150
Fluoranthene	0.0985	0.102		ug/L		103	50 - 150
Fluorene	0.0493	0.0511		ug/L		104	50 - 150
gamma-Chlordane	0.0246	0.0272	J	ug/L		110	50 - 150
Heptachlor	0.00985	0.0102		ug/L		104	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.0113		ug/L		115	50 - 150
Hexachlorobenzene	0.0493	0.0505		ug/L		103	50 - 150
Hexachlorocyclopentadiene	0.0493	0.0424	J	ug/L		86	50 - 150
Indeno[1,2,3-cd]pyrene	0.0493	0.0615		ug/L		125	50 - 150
Isophorone	0.0985	0.127		ug/L		129	50 - 150
Lindane	0.00985	0.00905	J	ug/L		92	50 - 150
Malathion	0.0985	0.116		ug/L		118	50 - 150
Methoxychlor	0.0493	0.0641		ug/L		130	50 - 150
Metolachlor	0.0493	0.0624		ug/L		127	50 - 150
Molinate	0.0985	0.108		ug/L		109	50 - 150
Naphthalene	0.0985	0.102		ug/L		104	50 - 150
Parathion	0.0985	0.106		ug/L		107	50 - 150

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

Lab Sample ID: MRL 380-186277/21-A
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186277

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Pendimethalin (Penoxaline)			0.0985	0.110		ug/L		111	50 - 150		
Phenanthrene			0.0394	0.0387	J	ug/L		98	50 - 150		
Propachlor			0.0493	0.0572		ug/L		116	50 - 150		
Pyrene			0.0493	0.0499		ug/L		101	50 - 150		
Simazine			0.0493	0.0480	J	ug/L		97	50 - 150		
Terbacil			0.0985	0.123		ug/L		124	50 - 150		
Terbuthylazine			0.0985	0.103		ug/L		105	50 - 150		
Thiobencarb			0.0985	0.115		ug/L		117	50 - 150		
trans-Nonachlor			0.0246	<0.026		ug/L		99	50 - 150		
Trifluralin			0.0985	0.116		ug/L		118	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*99*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*106*		*70 - 130*

Lab Sample ID: 380-181879-AG-1-A MS
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene	<0.097		1.98	1.85		ug/L		93	70 - 130		
2,4'-DDD	<0.097		1.98	2.01		ug/L		102	70 - 130		
2,4'-DDE	<0.097		1.98	1.92		ug/L		97	70 - 130		
2,4'-DDT	<0.097		1.98	1.91		ug/L		96	70 - 130		
2,4-Dinitrotoluene	<0.097		1.98	2.09		ug/L		106	70 - 130		
2,6-Dinitrotoluene	<0.097		1.98	2.02		ug/L		102	70 - 130		
2-Methylnaphthalene	<0.097		1.98	1.87		ug/L		94	70 - 130		
4,4'-DDD	<0.097		1.98	2.03		ug/L		103	70 - 130		
4,4'-DDE	<0.097		1.98	1.87		ug/L		94	70 - 130		
4,4'-DDT	<0.097		1.98	1.74		ug/L		88	70 - 130		
Acenaphthene	<0.097		1.98	1.98		ug/L		100	70 - 130		
Acenaphthylene	<0.097		1.98	1.99		ug/L		101	70 - 130		
Acetochlor	<0.097		1.98	2.18		ug/L		110	70 - 130		
Alachlor	<0.048		1.98	2.15		ug/L		109	70 - 130		
alpha-BHC	<0.097		1.98	1.98		ug/L		100	70 - 130		
alpha-Chlordane	<0.048		1.98	2.10		ug/L		106	70 - 130		
Anthracene	<0.019		1.98	1.66		ug/L		84	70 - 130		
Atrazine	<0.048		1.98	2.13		ug/L		108	70 - 130		
Benz(a)anthracene	<0.048		1.98	1.80		ug/L		91	70 - 130		
Benzo[a]pyrene	<0.019		1.98	1.82		ug/L		92	70 - 130		
Benzo[b]fluoranthene	<0.019		1.98	1.97		ug/L		99	70 - 130		
Benzo[g,h,i]perylene	<0.048		1.98	1.86		ug/L		94	70 - 130		
Benzo[k]fluoranthene	<0.019		1.98	1.85		ug/L		93	70 - 130		
beta-BHC	<0.097		1.98	1.96		ug/L		99	70 - 130		
Bis(2-ethylhexyl) phthalate	<0.58		1.98	1.68		ug/L		85	70 - 130		
Bromacil	<0.097		1.98	1.81		ug/L		92	70 - 130		
Butachlor	<0.048		1.98	2.15		ug/L		109	70 - 130		

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

Lab Sample ID: 380-181879-AG-1-A MS
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	<0.48		1.98	2.31		ug/L		117	70 - 130
Chlorobenzilate	<0.097		1.98	2.18		ug/L		110	70 - 130
Chloroneb	<0.097		1.98	1.89		ug/L		96	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.98	2.19		ug/L		111	70 - 130
Chlorpyrifos	<0.048		1.98	2.20		ug/L		111	70 - 130
Chrysene	<0.019		1.98	1.84		ug/L		93	70 - 130
delta-BHC	<0.097		1.98	1.96		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.98	1.87		ug/L		95	70 - 130
Dibenz(a,h)anthracene	<0.048		1.98	1.81		ug/L		92	70 - 130
Diclorvos (DDVP)	<0.048		1.98	1.99		ug/L		101	70 - 130
Dieldrin	<0.0097		1.98	2.01		ug/L		102	70 - 130
Diethylphthalate	<0.48		1.98	2.20		ug/L		111	70 - 130
Dimethylphthalate	<0.48		1.98	2.05		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.97		3.95	4.38		ug/L		111	70 - 130
Di-n-octyl phthalate	<0.097		1.98	1.64		ug/L		83	70 - 130
Endosulfan I (Alpha)	<0.097		1.98	1.84		ug/L		93	70 - 130
Endosulfan II (Beta)	<0.097		1.98	1.92		ug/L		97	70 - 130
Endosulfan sulfate	<0.097		1.98	2.16		ug/L		109	70 - 130
Endrin	<0.0097		1.98	2.12		ug/L		107	70 - 130
Endrin aldehyde	<0.097		1.98	1.69		ug/L		85	60 - 130
EPTC	<0.097		1.98	2.10		ug/L		106	70 - 130
Fluoranthene	<0.097		1.98	2.14		ug/L		108	70 - 130
Fluorene	<0.048		1.98	2.00		ug/L		101	70 - 130
gamma-Chlordane	<0.048		1.98	2.12		ug/L		107	70 - 130
Heptachlor	<0.0097		1.98	2.04		ug/L		103	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.98	2.00		ug/L		101	70 - 130
Hexachlorobenzene	<0.048		1.98	2.05		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.048		1.98	2.00		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.98	1.96		ug/L		99	70 - 130
Isophorone	<0.097		1.98	2.09		ug/L		106	70 - 130
Lindane	<0.0097		1.98	1.93		ug/L		97	70 - 130
Malathion	<0.097		1.98	2.01		ug/L		102	70 - 130
Methoxychlor	<0.048		1.98	2.14		ug/L		108	70 - 130
Metolachlor	<0.048		1.98	1.99		ug/L		101	70 - 130
Molinate	<0.097		1.98	2.12		ug/L		107	70 - 130
Naphthalene	<0.097		1.98	1.90		ug/L		96	70 - 130
Parathion	<0.097		1.98	2.43		ug/L		123	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.98	2.28		ug/L		115	70 - 130
Phenanthrene	<0.039		1.98	1.95		ug/L		99	70 - 130
Propachlor	<0.048		1.98	2.18		ug/L		110	70 - 130
Pyrene	<0.048		1.98	2.10		ug/L		106	70 - 130
Simazine	<0.048		1.98	1.95		ug/L		98	70 - 130
Terbacil	<0.097		1.98	2.06		ug/L		104	70 - 130
Terbuthylazine	<0.097		1.98	2.22		ug/L		112	70 - 130
Thiobencarb	<0.097		1.98	2.25		ug/L		114	70 - 130
trans-Nonachlor	<0.048		1.98	1.92		ug/L		97	70 - 130
Trifluralin	<0.097		1.98	2.20		ug/L		111	70 - 130

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

Lab Sample ID: 380-181879-AG-1-A MS
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 186277

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*99*		*70 - 130*
Perylene-d12	*100*		*70 - 130*
Triphenylphosphate	*110*		*70 - 130*

Lab Sample ID: 380-182102-O-1-A DU
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 186277

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1-Methylnaphthalene	<0.098			<0.099		ug/L				NC	20
2,4'-DDD	<0.098			<0.099		ug/L				NC	20
2,4'-DDE	<0.098			<0.099		ug/L				NC	20
2,4'-DDT	<0.098			<0.099		ug/L				NC	20
2,4-Dinitrotoluene	<0.098			<0.099		ug/L				NC	20
2,6-Dinitrotoluene	<0.098			<0.099		ug/L				NC	20
2-Methylnaphthalene	<0.098			<0.099		ug/L				NC	20
4,4'-DDD	<0.098			<0.099		ug/L				NC	20
4,4'-DDE	<0.098			<0.099		ug/L				NC	20
4,4'-DDT	<0.098			<0.099		ug/L				NC	20
Acenaphthene	<0.098			<0.099		ug/L				NC	20
Acenaphthylene	<0.098			<0.099		ug/L				NC	20
Acetochlor	<0.098			<0.099		ug/L				NC	20
Alachlor	<0.049			<0.049		ug/L				NC	20
alpha-BHC	<0.098			<0.099		ug/L				NC	20
alpha-Chlordane	<0.049			<0.049		ug/L				NC	20
Anthracene	<0.020			<0.020		ug/L				NC	20
Atrazine	<0.049			<0.049		ug/L				NC	20
Benz(a)anthracene	<0.049			<0.049		ug/L				NC	20
Benzo[a]pyrene	<0.020			<0.020		ug/L				NC	20
Benzo[b]fluoranthene	<0.020			<0.020		ug/L				NC	20
Benzo[g,h,i]perylene	<0.049			<0.049		ug/L				NC	20
Benzo[k]fluoranthene	<0.020			<0.020		ug/L				NC	20
beta-BHC	<0.098			<0.099		ug/L				NC	20
Bis(2-ethylhexyl) phthalate	<0.59			<0.59		ug/L				NC	20
Bromacil	<0.098			<0.099		ug/L				NC	20
Butachlor	<0.049			<0.049		ug/L				NC	20
Butylbenzylphthalate	<0.49			<0.49		ug/L				NC	20
Chlorobenzilate	<0.098			<0.099		ug/L				NC	20
Chloroneb	<0.098			<0.099		ug/L				NC	20
Chlorothalonil (Draconil, Bravo)	<0.098			<0.099		ug/L				NC	20
Chlorpyrifos	<0.049			<0.049		ug/L				NC	20
Chrysene	<0.020			<0.020		ug/L				NC	20
delta-BHC	<0.098			<0.099		ug/L				NC	20
Di(2-ethylhexyl)adipate	<0.59			<0.59		ug/L				NC	20
Dibenz(a,h)anthracene	<0.049			<0.049		ug/L				NC	20
Diclorvos (DDVP)	<0.049			<0.049		ug/L				NC	20
Dieldrin	<0.0098			<0.0099		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: 380-182102-O-1-A DU
Matrix: Water
Analysis Batch: 186293

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 186277

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	<0.98			<0.99		ug/L				NC	20
Di-n-octyl phthalate	<0.098			<0.099		ug/L				NC	20
Endosulfan I (Alpha)	<0.098			<0.099		ug/L				NC	20
Endosulfan II (Beta)	<0.098			<0.099		ug/L				NC	20
Endosulfan sulfate	<0.098			<0.099		ug/L				NC	20
Endrin	<0.0098			<0.0099		ug/L				NC	20
Endrin aldehyde	<0.098			<0.099		ug/L				NC	20
EPTC	<0.098			<0.099		ug/L				NC	20
Fluoranthene	<0.098			<0.099		ug/L				NC	20
Fluorene	<0.049			<0.049		ug/L				NC	20
gamma-Chlordane	<0.049			<0.049		ug/L				NC	20
Heptachlor	<0.0098			<0.0099		ug/L				NC	20
Heptachlor epoxide (isomer B)	<0.0098			<0.0099		ug/L				NC	20
Hexachlorobenzene	<0.049			<0.049		ug/L				NC	20
Hexachlorocyclopentadiene	<0.049			<0.049		ug/L				NC	20
Indeno[1,2,3-cd]pyrene	<0.049			<0.049		ug/L				NC	20
Isophorone	<0.098			<0.099		ug/L				NC	20
Lindane	<0.0098			<0.0099		ug/L				NC	20
Malathion	<0.098			<0.099		ug/L				NC	20
Methoxychlor	<0.049			<0.049		ug/L				NC	20
Metolachlor	<0.049			<0.049		ug/L				NC	20
Molinate	<0.098			<0.099		ug/L				NC	20
Naphthalene	<0.098			<0.099		ug/L				NC	20
Parathion	<0.098			<0.099		ug/L				NC	20
Pendimethalin (Penoxaline)	<0.098			<0.099		ug/L				NC	20
Phenanthrene	<0.039			<0.039		ug/L				NC	20
Propachlor	<0.049			<0.049		ug/L				NC	20
Pyrene	<0.049			<0.049		ug/L				NC	20
Simazine	<0.049			<0.049		ug/L				NC	20
Terbacil	<0.098			<0.099		ug/L				NC	20
Terbuthylazine	<0.098			<0.099		ug/L				NC	20
Thiobencarb	<0.098			<0.099		ug/L				NC	20
Total Permethrin (mixed isomers)	<0.20			<0.20		ug/L				NC	20
trans-Nonachlor	<0.049			<0.049		ug/L				NC	20
Trifluralin	<0.098			<0.099		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*100*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*107*		*70 - 130*

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

Lab Sample ID: MB 570-653985/1-A
Matrix: Water
Analysis Batch: 659204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 653985

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	11/10/25 14:12	11/20/25 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139	11/10/25 14:12	11/20/25 11:03	1
2-Fluorobiphenyl (Surr)	84		33 - 126	11/10/25 14:12	11/20/25 11:03	1
2-Fluorophenol (Surr)	50		12 - 120	11/10/25 14:12	11/20/25 11:03	1
Nitrobenzene-d5 (Surr)	74		36 - 120	11/10/25 14:12	11/20/25 11:03	1
Phenol-d6 (Surr)	31		10 - 120	11/10/25 14:12	11/20/25 11:03	1
p-Terphenyl-d14 (Surr)	78		47 - 131	11/10/25 14:12	11/20/25 11:03	1

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

Lab Sample ID: MB 570-653985/1-A
Matrix: Water
Analysis Batch: 659113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 653985

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
2-Methylnaphthalene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Acenaphthene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Acenaphthylene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Anthracene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Benzo[a]anthracene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Benzo[a]pyrene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Chrysene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Fluoranthene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Fluorene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Naphthalene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Phenanthrene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1
Pyrene	<0.20		0.20		ug/L		11/10/25 14:12	11/20/25 09:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	11/10/25 14:12	11/20/25 09:33	1
2-Fluorobiphenyl (Surr)	69		31 - 120	11/10/25 14:12	11/20/25 09:33	1
2-Fluorophenol (Surr)	55		17 - 120	11/10/25 14:12	11/20/25 09:33	1
Nitrobenzene-d5 (Surr)	79		27 - 120	11/10/25 14:12	11/20/25 09:33	1
Phenol-d6 (Surr)	35		10 - 120	11/10/25 14:12	11/20/25 09:33	1
p-Terphenyl-d14 (Surr)	80		45 - 120	11/10/25 14:12	11/20/25 09:33	1

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

Lab Sample ID: LCS 570-653985/2-A
Matrix: Water
Analysis Batch: 659113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.0		ug/L		75	47 - 120
2-Methylnaphthalene	20.0	15.1		ug/L		76	43 - 120
Acenaphthene	20.0	17.2		ug/L		86	60 - 132
Acenaphthylene	20.0	16.3		ug/L		82	54 - 126
Anthracene	20.0	16.8		ug/L		84	43 - 120
Benzo[a]anthracene	20.0	17.9		ug/L		90	42 - 133
Benzo[a]pyrene	20.0	20.1		ug/L		100	32 - 148
Benzo[b]fluoranthene	20.0	21.4		ug/L		107	42 - 140
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	1 - 195
Benzo[k]fluoranthene	20.0	20.2		ug/L		101	25 - 146
Chrysene	20.0	19.1		ug/L		95	44 - 140
Dibenz(a,h)anthracene	20.0	20.5		ug/L		103	1 - 200
Fluoranthene	20.0	17.3		ug/L		87	43 - 121
Fluorene	20.0	17.5		ug/L		88	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	20.6		ug/L		103	1 - 151
Naphthalene	20.0	14.5		ug/L		72	36 - 120
Phenanthrene	20.0	17.0		ug/L		85	65 - 120
Pyrene	20.0	21.1		ug/L		106	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*28 - 127*
2-Fluorobiphenyl (Surr)	*72*		*31 - 120*
2-Fluorophenol (Surr)	*57*		*17 - 120*
Nitrobenzene-d5 (Surr)	*66*		*27 - 120*
Phenol-d6 (Surr)	*38*		*10 - 120*
p-Terphenyl-d14 (Surr)	*88*		*45 - 120*

Lab Sample ID: LCSD 570-653985/3-A
Matrix: Water
Analysis Batch: 659113

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 653985

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.1		ug/L		81	47 - 120	8	20
2-Methylnaphthalene	20.0	16.3		ug/L		81	43 - 120	7	20
Acenaphthene	20.0	19.3		ug/L		96	60 - 132	12	29
Acenaphthylene	20.0	19.5		ug/L		97	54 - 126	18	45
Anthracene	20.0	19.1		ug/L		96	43 - 120	13	40
Benzo[a]anthracene	20.0	20.1		ug/L		100	42 - 133	11	32
Benzo[a]pyrene	20.0	21.5		ug/L		108	32 - 148	7	43
Benzo[b]fluoranthene	20.0	20.2		ug/L		101	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	21.0		ug/L		105	1 - 195	21	61
Benzo[k]fluoranthene	20.0	20.2		ug/L		101	25 - 146	0	38
Chrysene	20.0	19.3		ug/L		97	44 - 140	1	53
Dibenz(a,h)anthracene	20.0	23.0		ug/L		115	1 - 200	11	75
Fluoranthene	20.0	20.9		ug/L		104	43 - 121	18	40
Fluorene	20.0	19.5		ug/L		98	70 - 120	11	23
Indeno[1,2,3-cd]pyrene	20.0	23.1		ug/L		115	1 - 151	11	60
Naphthalene	20.0	15.3		ug/L		76	36 - 120	5	39

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

Lab Sample ID: LCSD 570-653985/3-A
Matrix: Water
Analysis Batch: 659113

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 653985

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	19.4		ug/L		97	65 - 120	13	24
Pyrene			20.0	19.8		ug/L		99	70 - 120	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*100*		*28 - 127*
2-Fluorobiphenyl (Surr)	*91*		*31 - 120*
2-Fluorophenol (Surr)	*63*		*17 120*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*
Phenol-d6 (Surr)	*41*		*10 - 120*
p-Terphenyl-d14 (Surr)	*91*		*45 - 120*

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

Lab Sample ID: MB 570-656984/6
Matrix: Water
Analysis Batch: 656984

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			11/16/25 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*38 - 134*		*11/16/25 12:43*	*1*

Lab Sample ID: LCS 570-656984/4
Matrix: Water
Analysis Batch: 656984

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	404		ug/L		101	78 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*38 - 134*

Lab Sample ID: LCSD 570-656984/5
Matrix: Water
Analysis Batch: 656984

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	419		ug/L		105	78 - 120	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*38 - 134*

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

Lab Sample ID: MRL 570-656984/3
Matrix: Water
Analysis Batch: 656984

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	12.1		ug/L		121	50 - 150		

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

Lab Sample ID: 570-254887-D-5 MS
Matrix: Water
Analysis Batch: 656984

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)	390		2000	2240		ug/L		93	68 - 122		

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

Lab Sample ID: 570-254887-D-5 MSD
Matrix: Water
Analysis Batch: 656984

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)	390		2000	2480		ug/L		105	68 - 122	10	18

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

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

Lab Sample ID: MB 570-653516/1-A
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 653516

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		11/09/25 11:05	11/17/25 21:17	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		11/09/25 11:05	11/17/25 21:17	1
C8-C18	<25		25		ug/L		11/09/25 11:05	11/17/25 21:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*94*		*60 - 130*	*11/09/25 11:05*	*11/17/25 21:17*	*1*

Lab Sample ID: LCS 570-653516/2-A
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1540		ug/L		96	56 - 127		

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

Lab Sample ID: LCS 570-653516/2-A
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653516

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	115		60 - 130

Lab Sample ID: LCSD 570-653516/3-A
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 653516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1390		ug/L		87	56 - 127	11	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	102		60 - 130

Lab Sample ID: MRL 570-653516/4-A
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653516

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	<0.020		mg/L		95	50 - 150		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
n-Octacosane (Surr)	88		60 - 130

Lab Sample ID: 380-181052-B-1-A MS
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 653516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1660	1880		ug/L		113	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane (Surr)	132	S1+	60 - 130

Lab Sample ID: 380-181052-B-1-B MSD
Matrix: Water
Analysis Batch: 657598

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 653516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1640	1850		ug/L		113	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane (Surr)	134	S1+	60 - 130

QC Association Summary

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 186277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-186277/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-186277/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-186277/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-181879-AG-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-182102-O-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 186293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	186277
MB 380-186277/20-A	Method Blank	Total/NA	Water	525.2	186277
LCS 380-186277/22-A	Lab Control Sample	Total/NA	Water	525.2	186277
MRL 380-186277/21-A	Lab Control Sample	Total/NA	Water	525.2	186277
380-181879-AG-1-A MS	Matrix Spike	Total/NA	Water	525.2	186277
380-182102-O-1-A DU	Duplicate	Total/NA	Water	525.2	186277

Prep Batch: 653985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-653985/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-653985/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-653985/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 659005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	653985

Analysis Batch: 659113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-653985/1-A	Method Blank	Total/NA	Water	625.1 SIM	653985
LCS 570-653985/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	653985
LCSD 570-653985/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	653985

Analysis Batch: 659204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	653985
MB 570-653985/1-A	Method Blank	Total/NA	Water	625.1	653985

GC VOA

Analysis Batch: 656984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-181323-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-656984/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-656984/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-656984/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-656984/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
570-254887-D-5 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
570-254887-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 653516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-653516/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-653516/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-653516/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-653516/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-181052-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-181052-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 657598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-181323-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	653516
MB 570-653516/1-A	Method Blank	Total/NA	Water	8015B	653516
LCS 570-653516/2-A	Lab Control Sample	Total/NA	Water	8015B	653516
LCSD 570-653516/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	653516
MRL 570-653516/4-A	Lab Control Sample	Total/NA	Water	8015B	653516
380-181052-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	653516
380-181052-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	653516

Lab Chronicle

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-181323-1
Matrix: Water
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			186277	IQ42	EA POM	11/13/25 12:55
Total/NA	Analysis	525.2		1	186293	UPAC	EA POM	11/14/25 10:07
Total/NA	Prep	625.1			653985	S4EA	EET CAL 4	11/10/25 14:12
Total/NA	Analysis	625.1		1	659204	PQS1	EET CAL 4	11/20/25 14:16
Total/NA	Prep	625.1			653985	S4EA	EET CAL 4	11/10/25 14:12
Total/NA	Analysis	625.1 SIM		1	659005	PQS1	EET CAL 4	11/20/25 10:06
Total/NA	Analysis	8015B GRO LL		1	656984	YD9V	EET CAL 4	11/16/25 21:34
Total/NA	Prep	3510C			653516	TVD6	EET CAL 4	11/09/25 11:05
Total/NA	Analysis	8015B		1	657598	NR	EET CAL 4	11/18/25 01:28

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-181323-2
Matrix: Water
Date Collected: 11/04/25 09:30
Date Received: 11/06/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	656984	YD9V	EET CAL 4	11/16/25 19:00

Laboratory References:

EA POM = Eurofins Eaton Analytical 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: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525 2	525 2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	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	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Accreditation/Certification Summary

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

Job ID: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

Method Summary

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

Job ID: 380-181323-1
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 Eaton Analytical 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: 380-181323-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-181323-1	HALAWA SHAFT VIEWING POOL	Water	11/04/25 09:30	11/06/25 09:45	Hawaii
380-181323-2	TB: HALAWA SHAFT VIEWING POOL	Water	11/04/25 09:30	11/06/25 09:45	Hawaii

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Rakofsky	Lab PM: Arada, Rachelle	Carrier Tracking No(s):
Client Contact: Mr Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin:
Company: City & County of Honolulu	PWSID:		

COC No: 380-28005-2757 1
Page: Page 1 of 2
Job #:

Address: 630 South Beretania Street Chemistry Lab
City: Honolulu
State Zip: HI, 96843
Phone: 808-748-5840 (Tel)
Email: kiwamoto@hbws.org
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill
Site: Hawaii

Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: C20525101 exp 05312023
WO #:
Project #: 38001111
SSOW#:

Analysis Requested

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

380-181323 COC

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)	525.1, 525.1_SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	R	RA	Q	QA	Y	I	X	
Halawa Shaft Viewing Pool	4-Nov-2025	0930	G	Water			2	(3)	2	2				
TB: Halawa Shaft Viewing Pool	4-Nov-2025	✓	G	Water				2						

1 of 2 REC. BROKEN JS 11/6/25

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment: FedX 8857 9198 1530

Relinquished by: [redacted]	Date/Time: 11/5/25 1100	Company: HBWS	Received by: [signature] Mark Urrutia	Date/Time: 11/6/25 445	Company: EEAP
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) 1.9 + 0.0 - 1.9 gel. frozen

Ver: 04/02/2024

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone. 714-895-5494

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 570-485963.1
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 Eaton Analytical		Accreditations Required (See note): State - Hawaii		Job #: 380-181323-1
Address: 941 Corporate Center Drive, ,	Due Date Requested: 11/18/2025			Preservation Codes: -
City: Pomona	TAT Requested (days): N/A			
State, Zip: CA, 91768-2642				
Phone: 626-386-1100(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)	525.2_PREC/525.2_Prep(MOD) 525plus Plus TICs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
HALAWA SHAFT VIEWING POOL (380-181323-1)	11/4/25	09:30 Hawaiian	G	Water			X	2	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Calscience attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

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
1		11/12/25 17:27	RO		11-12-25 1727	WP
2		11/12-25 1900	WP		11/12/25 19:04	RO
3		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: 6.8/5.5=5.5 IR

Ver 10/10/2024

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

Chain of Custody Record

eurofins

Loc: 380
181323

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-273502.1
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,		Accreditations Required (See note): State - Hawaii		Job #: 380-181323-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 11/19/2025	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 (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LL/HNL 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:		X	X						
HALAWA SHAFT VIEWING POOL (380-181323-1)	11/4/25	09:30 Hawaiian	G	Water			X	X	X	X	5	MRLs are needed. Confirm any hits >RL.
TB: HALAWA SHAFT VIEWING POOL (380-181323-2)	11/4/25	09:30 Hawaiian	G	Water				X			2	MRLs are needed.

380-181323 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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 Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, 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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Mark Maruta	11/6/25 1600	EEAP		11/6/25 1600	WP
Relinquished by: Erin Lomi	11/6/25 1650	WP		11/6/25 1650	EE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6/1.7 IR-4

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895-5494

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 570-485963.1
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 Eaton Analytical		Accreditations Required (See note): State - Hawaii		Job #: 380-181323-1
Address: 941 Corporate Center Drive, ,	Due Date Requested: 11/18/2025	Analysis Requested		Preservation Codes: -
City: Pomona	TAT Requested (days): N/A			
State, Zip: CA, 91768-2642				
Phone: 626-386-1100(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)	625.2_PREC/625.2_Prep(MOD) 625plus Plus TICs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
HALAWA SHAFT VIEWING POOL (380-181323-1)	11/4/25	09:30 Hawaiian	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

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
	11/12/25 17:22	RO		11-12-25 1727	WP
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:

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-181323-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 181323
List Number: 1
Creator: Edrosa, Rey

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
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: 380-181323-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 181323
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 11/07/25 12:48 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.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	