

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-228227-1

Eurofins Pomona

Job Notes

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

Compliance Statement

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

Authorization



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

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Definitions/Glossary

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

Job ID: 380-228227-1
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

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

Job ID: 380-228227-1

Job ID: 380-228227-1

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Job Narrative 380-228227-1

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 7/31/2026 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 5.4°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-1

☐ No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-1

Date Collected: 07/28/26 09:30

Matrix: Water

Date Received: 07/31/26 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
2,4'-DDD	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
2,4'-DDE	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
2,4'-DDT	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
2-Methylnaphthalene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
4,4'-DDD	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
4,4'-DDE	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
4,4'-DDT	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Acenaphthene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Acenaphthylene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Acetochlor	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Alachlor	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
alpha-BHC	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
alpha-Chlordane	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Anthracene	<0.019		0.019	ug/L		08/03/26 10:16	08/04/26 20:41	1
Atrazine	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Benz(a)anthracene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/03/26 10:16	08/04/26 20:41	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/03/26 10:16	08/04/26 20:41	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/03/26 10:16	08/04/26 20:41	1
beta-BHC	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Bis(2-ethylhexyl) phthalate	<0.57		0.57	ug/L		08/03/26 10:16	08/04/26 20:41	1
Bromacil	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Butachlor	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Butylbenzylphthalate	<0.48		0.48	ug/L		08/03/26 10:16	08/04/26 20:41	1
Chlorobenzilate	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Chloroneb	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Chlorpyrifos	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Chrysene	<0.019		0.019	ug/L		08/03/26 10:16	08/04/26 20:41	1
delta-BHC	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Di(2-ethylhexyl)adipate	<0.57		0.57	ug/L		08/03/26 10:16	08/04/26 20:41	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Dieldrin	<0.0096		0.0096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Diethylphthalate	<0.48		0.48	ug/L		08/03/26 10:16	08/04/26 20:41	1
Dimethylphthalate	<0.48		0.48	ug/L		08/03/26 10:16	08/04/26 20:41	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		08/03/26 10:16	08/04/26 20:41	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Endosulfan sulfate	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Endrin	<0.0096		0.0096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Endrin aldehyde	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
EPTC	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Fluoranthene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1

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Client Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-1

Date Collected: 07/28/26 09:30

Matrix: Water

Date Received: 07/31/26 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
gamma-Chlordane	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Heptachlor	<0.0096		0.0096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Hexachlorobenzene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Isophorone	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Lindane	<0.0096		0.0096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Malathion	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Methoxychlor	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Metolachlor	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Molinate	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Naphthalene	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Parathion	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Phenanthrene	<0.038		0.038	ug/L		08/03/26 10:16	08/04/26 20:41	1
Propachlor	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Pyrene	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Simazine	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Terbacil	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Terbutylazine	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Thiobencarb	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/03/26 10:16	08/04/26 20:41	1
trans-Nonachlor	<0.048		0.048	ug/L		08/03/26 10:16	08/04/26 20:41	1
Trifluralin	<0.096		0.096	ug/L		08/03/26 10:16	08/04/26 20:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.79	T J	ug/L		7.86	N/A	08/03/26 10:16	08/04/26 20:41	1
Unknown	0.76	T J	ug/L		9.48	N/A	08/03/26 10:16	08/04/26 20:41	1
Unknown	0.75	T J	ug/L		10.42	N/A	08/03/26 10:16	08/04/26 20:41	1
Unknown	0.52	T J	ug/L		12.39	N/A	08/03/26 10:16	08/04/26 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	105		70 - 130	08/03/26 10:16	08/04/26 20:41	1
Perylene-d12	101		70 - 130	08/03/26 10:16	08/04/26 20:41	1
Triphenylphosphate	103		70 - 130	08/03/26 10:16	08/04/26 20:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Acenaphthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Acenaphthylene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Anthracene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1

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Client Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-1

Date Collected: 07/28/26 09:30

Matrix: Water

Date Received: 07/31/26 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Fluoranthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Fluorene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Naphthalene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Phenanthrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1
Pyrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		28 - 127	08/01/26 13:14	08/10/26 13:07	1
2-Fluorobiphenyl (Surr)	84		31 - 120	08/01/26 13:14	08/10/26 13:07	1
2-Fluorophenol (Surr)	51		17 - 120	08/01/26 13:14	08/10/26 13:07	1
Nitrobenzene-d5 (Surr)	83		27 - 120	08/01/26 13:14	08/10/26 13:07	1
Phenol-d6 (Surr)	30		10 - 120	08/01/26 13:14	08/10/26 13:07	1
p-Terphenyl-d14 (Surr)	74		45 - 120	08/01/26 13:14	08/10/26 13:07	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/01/26 13:14	08/05/26 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139	08/01/26 13:14	08/05/26 22:52	1
2-Fluorobiphenyl (Surr)	84		33 - 126	08/01/26 13:14	08/05/26 22:52	1
2-Fluorophenol (Surr)	50		12 - 120	08/01/26 13:14	08/05/26 22:52	1
Nitrobenzene-d5 (Surr)	91		36 - 120	08/01/26 13:14	08/05/26 22:52	1
Phenol-d6 (Surr)	30		10 - 120	08/01/26 13:14	08/05/26 22:52	1
p-Terphenyl-d14 (Surr)	85		47 - 131	08/01/26 13:14	08/05/26 22:52	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			08/08/26 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		08/08/26 19:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/03/26 09:48	08/09/26 11:08	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/03/26 09:48	08/09/26 11:08	1
C8-C18	<25		25	ug/L		08/03/26 09:48	08/09/26 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130	08/03/26 09:48	08/09/26 11:08	1

Client Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-2

Date Collected: 07/28/26 09:30

Matrix: Water

Date Received: 07/31/26 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			08/08/26 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134		08/08/26 14:38	1

Action Limit Summary

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.57		ug/L	6	0.57	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.57		ug/L	400	0.57	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: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-228227-1	HALAWA SHAFT VIEWING POOL	105	101	103
380-228290-B-1-A MS	Matrix Spike	96	99	99
380-228290-B-2-A DU	Duplicate	96	97	100
LCS 380-244045/23-A	Lab Control Sample	99	95	104
LCSD 380-244045/24-A	Lab Control Sample Dup	99	99	101
MB 380-244045/21-A	Method Blank	99	95	103
MRL 380-244045/22-A	Lab Control Sample	97	89	101
Surrogate Legend				
2NMX = 2-Nitro-m-xylene				
PRY = Perylene-d12				
TPP = Triphenylphosphate				

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-228227-1	HALAWA SHAFT VIEWING POOL	85	84	50	91	30	85
MB 570-777552/1-A	Method Blank	80	87	58	95	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-227684-A-1-A MS	Matrix Spike	71	68	54	54	34	75
380-227684-A-1-B MSD	Matrix Spike Duplicate	70	66	54	54	33	73
380-228227-1	HALAWA SHAFT VIEWING POOL	89	84	51	83	30	74
LCS 570-777552/2-A	Lab Control Sample	78	73	60	58	39	84
LCSD 570-777552/3-A	Lab Control Sample Dup	81	76	67	60	43	88
MB 570-777552/1-A	Method Blank	85	73	58	75	34	72
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

Job ID: 380-228227-1

Project/Site: RED-HILL

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)
380-228215-B-1 MS	Matrix Spike	100
380-228215-B-1 MSD	Matrix Spike Duplicate	100
380-228227-1	HALAWA SHAFT VIEWING POOL	97
380-228227-2	TB: HALAWA SHAFT VIEWING POOL	87
LCS 570-781313/3	Lab Control Sample	78
LCSD 570-781313/4	Lab Control Sample Dup	99
MB 570-781313/6	Method Blank	97
MRL 570-781313/5	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)
380-228215-C-1-A MS	Matrix Spike	106
380-228215-C-1-B MSD	Matrix Spike Duplicate	101
380-228227-1	HALAWA SHAFT VIEWING POOL	112
LCS 570-778241/2-A	Lab Control Sample	110
LCSD 570-778241/3-A	Lab Control Sample Dup	103
MB 570-778241/1-A	Method Blank	115
MRL 570-778241/4-A	Lab Control Sample	117
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-244045/21-A
Matrix: Water
Analysis Batch: 244228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244045

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
2,4'-DDD	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
2,4'-DDE	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
2,4'-DDT	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
4,4'-DDD	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
4,4'-DDE	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
4,4'-DDT	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Acenaphthene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Acenaphthylene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Acetochlor	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Alachlor	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
alpha-BHC	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
alpha-Chlordane	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Anthracene	<0.020		0.020	ug/L		08/03/26 10:16	08/04/26 15:16	1
Atrazine	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/03/26 10:16	08/04/26 15:16	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/03/26 10:16	08/04/26 15:16	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/03/26 10:16	08/04/26 15:16	1
beta-BHC	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/03/26 10:16	08/04/26 15:16	1
Bromacil	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Butachlor	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/03/26 10:16	08/04/26 15:16	1
Chlorobenzilate	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Chloroneb	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Chlorpyrifos	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Chrysene	<0.020		0.020	ug/L		08/03/26 10:16	08/04/26 15:16	1
delta-BHC	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/03/26 10:16	08/04/26 15:16	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Dieldrin	<0.0099		0.0099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Diethylphthalate	<0.50		0.50	ug/L		08/03/26 10:16	08/04/26 15:16	1
Dimethylphthalate	<0.50		0.50	ug/L		08/03/26 10:16	08/04/26 15:16	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/03/26 10:16	08/04/26 15:16	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Endrin	<0.0099		0.0099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Endrin aldehyde	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
EPTC	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-244045/21-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 244045

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Fluorene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
gamma-Chlordane	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Heptachlor	<0.0099		0.0099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Isophorone	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Lindane	<0.0099		0.0099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Malathion	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Methoxychlor	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Metolachlor	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Molinate	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Naphthalene	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Parathion	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Phenanthrene	<0.040		0.040	ug/L		08/03/26 10:16	08/04/26 15:16	1
Propachlor	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Pyrene	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Simazine	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Terbacil	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Terbutylazine	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Thiobencarb	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/03/26 10:16	08/04/26 15:16	1
trans-Nonachlor	<0.050		0.050	ug/L		08/03/26 10:16	08/04/26 15:16	1
Trifluralin	<0.099		0.099	ug/L		08/03/26 10:16	08/04/26 15:16	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane, 5-methyl-	0.803	T J N	ug/L		2.90	13151-35-4	08/03/26 10:16	08/04/26 15:16	1
Undecane	6.24	T J N	ug/L		3.05	1120-21-4	08/03/26 10:16	08/04/26 15:16	1
Cyclopentasiloxane, decamethyl-	0.682	T J N	ug/L		3.18	541-02-6	08/03/26 10:16	08/04/26 15:16	1
Cyclohexasiloxane, dodecamethyl-	0.885	T J N	ug/L		3.80	540-97-6	08/03/26 10:16	08/04/26 15:16	1
9-Octadecenamide, (Z)-	4.28	T J N	ug/L		7.76	301-02-0	08/03/26 10:16	08/04/26 15:16	1
13-Docosenamide, (Z)-	2.22	T J N	ug/L		10.25	112-84-5	08/03/26 10:16	08/04/26 15:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	08/03/26 10:16	08/04/26 15:16	1
Perylene-d12	95		70 - 130	08/03/26 10:16	08/04/26 15:16	1
Triphenylphosphate	103		70 - 130	08/03/26 10:16	08/04/26 15:16	1

Lab Sample ID: LCS 380-244045/23-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.94		ug/L		98	70 - 130
2,4'-DDD	1.98	2.03		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-244045/23-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.98	1.96		ug/L		99	70 - 130
2,4'-DDT	1.98	1.93		ug/L		97	70 - 130
2,4-Dinitrotoluene	1.98	2.10		ug/L		106	70 - 130
2,6-Dinitrotoluene	1.98	2.04		ug/L		103	70 - 130
2-Methylnaphthalene	1.98	1.97		ug/L		99	70 - 130
4,4'-DDD	1.98	2.03		ug/L		102	70 - 130
4,4'-DDE	1.98	1.99		ug/L		101	70 - 130
4,4'-DDT	1.98	1.94		ug/L		98	70 - 130
Acenaphthene	1.98	1.97		ug/L		99	70 - 130
Acenaphthylene	1.98	1.83		ug/L		92	70 - 130
Acetochlor	1.98	2.06		ug/L		104	70 - 130
Alachlor	1.98	2.03		ug/L		102	70 - 130
alpha-BHC	1.98	1.98		ug/L		100	70 - 130
alpha-Chlordane	1.98	1.98		ug/L		100	70 - 130
Anthracene	1.98	1.90		ug/L		96	70 - 130
Atrazine	1.98	2.11		ug/L		106	70 - 130
Benz(a)anthracene	1.98	1.97		ug/L		99	70 - 130
Benzo[a]pyrene	1.98	2.00		ug/L		101	70 - 130
Benzo[b]fluoranthene	1.98	2.04		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.98	1.96		ug/L		99	70 - 130
Benzo[k]fluoranthene	1.98	2.01		ug/L		101	70 - 130
beta-BHC	1.98	1.95		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.20		ug/L		111	70 - 130
Bromacil	1.98	1.93		ug/L		97	70 - 130
Butachlor	1.98	2.15		ug/L		108	70 - 130
Butylbenzylphthalate	1.98	2.16		ug/L		109	70 - 130
Chlorobenzilate	1.98	2.01		ug/L		102	70 - 130
Chloroneb	1.98	1.95		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	1.91		ug/L		96	70 - 130
Chlorpyrifos	1.98	2.00		ug/L		101	70 - 130
Chrysene	1.98	2.02		ug/L		102	70 - 130
delta-BHC	1.98	1.93		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.19		ug/L		110	70 - 130
Dibenz(a,h)anthracene	1.98	1.89		ug/L		95	70 - 130
Diclorvos (DDVP)	1.98	2.00		ug/L		101	70 - 130
Dieldrin	1.98	1.98		ug/L		100	70 - 130
Diethylphthalate	1.98	2.10		ug/L		106	70 - 130
Dimethylphthalate	1.98	2.05		ug/L		103	70 - 130
Di-n-butyl phthalate	3.97	4.16		ug/L		105	70 - 130
Di-n-octyl phthalate	1.98	2.15		ug/L		108	70 - 130
Endosulfan I (Alpha)	1.98	1.90		ug/L		96	70 - 130
Endosulfan II (Beta)	1.98	2.00		ug/L		101	70 - 130
Endosulfan sulfate	1.98	1.90		ug/L		96	70 - 130
Endrin	1.98	1.96		ug/L		99	70 - 130
Endrin aldehyde	1.98	1.86		ug/L		94	60 - 130
EPTC	1.98	2.04		ug/L		103	70 - 130
Fluoranthene	1.98	2.14		ug/L		108	70 - 130
Fluorene	1.98	1.99		ug/L		100	70 - 130
gamma-Chlordane	1.98	2.01		ug/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-244045/23-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.98	1.84		ug/L		93	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.94		ug/L		98	70 - 130
Hexachlorobenzene	1.98	1.92		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.98	1.73		ug/L		87	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.89		ug/L		95	70 - 130
Isophorone	1.98	2.02		ug/L		102	70 - 130
Lindane	1.98	1.96		ug/L		99	70 - 130
Malathion	1.98	2.05		ug/L		103	70 - 130
Methoxychlor	1.98	2.21		ug/L		111	70 - 130
Metolachlor	1.98	2.06		ug/L		104	70 - 130
Molinate	1.98	2.03		ug/L		103	70 - 130
Naphthalene	1.98	1.92		ug/L		97	70 - 130
Parathion	1.98	2.20		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	1.98	2.05		ug/L		103	70 - 130
Phenanthrene	1.98	1.96		ug/L		99	70 - 130
Propachlor	1.98	2.07		ug/L		104	70 - 130
Pyrene	1.98	2.05		ug/L		103	70 - 130
Simazine	1.98	2.00		ug/L		101	70 - 130
Terbacil	1.98	2.03		ug/L		103	70 - 130
Terbutylazine	1.98	2.14		ug/L		108	70 - 130
Thiobencarb	1.98	2.02		ug/L		102	70 - 130
trans-Nonachlor	1.98	1.95		ug/L		98	70 - 130
Trifluralin	1.98	2.00		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: LCSD 380-244045/24-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.98	1.96		ug/L		99	70 - 130	1	20
2,4'-DDD	1.98	2.04		ug/L		103	70 - 130	0	20
2,4'-DDE	1.98	1.99		ug/L		100	70 - 130	2	20
2,4'-DDT	1.98	2.00		ug/L		101	70 - 130	4	20
2,4-Dinitrotoluene	1.98	2.20		ug/L		111	70 - 130	4	20
2,6-Dinitrotoluene	1.98	2.11		ug/L		106	70 - 130	3	20
2-Methylnaphthalene	1.98	2.01		ug/L		101	70 - 130	2	20
4,4'-DDD	1.98	2.02		ug/L		102	70 - 130	0	20
4,4'-DDE	1.98	2.05		ug/L		103	70 - 130	3	20
4,4'-DDT	1.98	1.99		ug/L		100	70 - 130	2	20
Acenaphthene	1.98	2.04		ug/L		103	70 - 130	4	20
Acenaphthylene	1.98	1.83		ug/L		92	70 - 130	0	20
Acetochlor	1.98	2.10		ug/L		106	70 - 130	2	20
Alachlor	1.98	2.10		ug/L		106	70 - 130	4	20

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-244045/24-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-BHC	1.98	2.04		ug/L		103	70 - 130	3	20
alpha-Chlordane	1.98	2.00		ug/L		101	70 - 130	1	20
Anthracene	1.98	1.92		ug/L		97	70 - 130	1	20
Atrazine	1.98	2.13		ug/L		107	70 - 130	1	20
Benz(a)anthracene	1.98	2.00		ug/L		101	70 - 130	2	20
Benzo[a]pyrene	1.98	2.12		ug/L		107	70 - 130	6	20
Benzo[b]fluoranthene	1.98	2.19		ug/L		110	70 - 130	7	20
Benzo[g,h,i]perylene	1.98	2.05		ug/L		103	70 - 130	4	20
Benzo[k]fluoranthene	1.98	2.11		ug/L		106	70 - 130	5	20
beta-BHC	1.98	2.01		ug/L		101	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.98	2.26		ug/L		114	70 - 130	3	20
Bromacil	1.98	1.97		ug/L		100	70 - 130	2	20
Butachlor	1.98	2.18		ug/L		110	70 - 130	2	20
Butylbenzylphthalate	1.98	2.15		ug/L		108	70 - 130	0	20
Chlorobenzilate	1.98	2.06		ug/L		104	70 - 130	2	20
Chloroneb	1.98	2.00		ug/L		101	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	1.98	2.04		ug/L		103	70 - 130	7	20
Chlorpyrifos	1.98	2.09		ug/L		105	70 - 130	4	20
Chrysene	1.98	2.07		ug/L		104	70 - 130	3	20
delta-BHC	1.98	1.96		ug/L		99	70 - 130	1	20
Di(2-ethylhexyl)adipate	1.98	2.17		ug/L		109	70 - 130	1	20
Dibenz(a,h)anthracene	1.98	2.00		ug/L		101	70 - 130	6	20
Diclorvos (DDVP)	1.98	2.09		ug/L		105	70 - 130	4	20
Dieldrin	1.98	1.95		ug/L		98	70 - 130	2	20
Diethylphthalate	1.98	2.14		ug/L		108	70 - 130	2	20
Dimethylphthalate	1.98	2.10		ug/L		106	70 - 130	2	20
Di-n-butyl phthalate	3.96	4.25		ug/L		107	70 - 130	2	20
Di-n-octyl phthalate	1.98	2.24		ug/L		113	70 - 130	4	20
Endosulfan I (Alpha)	1.98	2.03		ug/L		102	70 - 130	6	20
Endosulfan II (Beta)	1.98	2.00		ug/L		101	70 - 130	0	20
Endosulfan sulfate	1.98	1.93		ug/L		97	70 - 130	2	20
Endrin	1.98	2.04		ug/L		103	70 - 130	4	20
Endrin aldehyde	1.98	1.86		ug/L		94	60 - 130	0	20
EPTC	1.98	2.08		ug/L		105	70 - 130	2	20
Fluoranthene	1.98	2.10		ug/L		106	70 - 130	2	20
Fluorene	1.98	2.08		ug/L		105	70 - 130	4	20
gamma-Chlordane	1.98	2.03		ug/L		102	70 - 130	1	20
Heptachlor	1.98	1.97		ug/L		99	70 - 130	7	20
Heptachlor epoxide (isomer B)	1.98	2.01		ug/L		101	70 - 130	3	20
Hexachlorobenzene	1.98	1.94		ug/L		98	70 - 130	1	20
Hexachlorocyclopentadiene	1.98	1.87		ug/L		94	70 - 130	8	20
Indeno[1,2,3-cd]pyrene	1.98	2.03		ug/L		102	70 - 130	7	20
Isophorone	1.98	2.07		ug/L		105	70 - 130	3	20
Lindane	1.98	2.05		ug/L		103	70 - 130	5	20
Malathion	1.98	2.11		ug/L		107	70 - 130	3	20
Methoxychlor	1.98	2.31		ug/L		116	70 - 130	4	20
Metolachlor	1.98	2.09		ug/L		106	70 - 130	2	20
Molinate	1.98	2.13		ug/L		107	70 - 130	4	20
Naphthalene	1.98	1.98		ug/L		100	70 - 130	3	20

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-244045/24-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	1.98	2.30		ug/L		116	70 - 130	4	20
Pendimethalin (Penoxaline)	1.98	2.15		ug/L		109	70 - 130	5	20
Phenanthrene	1.98	2.00		ug/L		101	70 - 130	2	20
Propachlor	1.98	2.18		ug/L		110	70 - 130	5	20
Pyrene	1.98	2.07		ug/L		104	70 - 130	1	20
Simazine	1.98	2.06		ug/L		104	70 - 130	3	20
Terbacil	1.98	2.11		ug/L		107	70 - 130	4	20
Terbutylazine	1.98	2.18		ug/L		110	70 - 130	2	20
Thiobencarb	1.98	2.04		ug/L		103	70 - 130	1	20
trans-Nonachlor	1.98	1.99		ug/L		100	70 - 130	2	20
Trifluralin	1.98	2.14		ug/L		108	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: MRL 380-244045/22-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.0864	J	ug/L		87	50 - 150
2,4'-DDD	0.0993	0.0939	J	ug/L		95	50 - 150
2,4'-DDE	0.0993	0.0952	J	ug/L		96	50 - 150
2,4'-DDT	0.0993	0.104		ug/L		105	50 - 150
2,4-Dinitrotoluene	0.0993	0.127		ug/L		128	50 - 150
2,6-Dinitrotoluene	0.0993	0.119		ug/L		120	50 - 150
2-Methylnaphthalene	0.0993	0.0892	J	ug/L		90	50 - 150
4,4'-DDD	0.0993	0.108		ug/L		109	50 - 150
4,4'-DDE	0.0993	0.0996		ug/L		100	50 - 150
4,4'-DDT	0.0993	0.104		ug/L		105	50 - 150
Acenaphthene	0.0993	0.0924	J	ug/L		93	50 - 150
Acenaphthylene	0.0993	0.0765	J	ug/L		77	50 - 150
Acetochlor	0.0993	0.0981	J	ug/L		99	50 - 150
Alachlor	0.0497	0.0558		ug/L		112	50 - 150
alpha-BHC	0.0993	0.104		ug/L		105	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		112	50 - 150
Anthracene	0.0199	0.0221		ug/L		111	50 - 150
Atrazine	0.0497	0.0590		ug/L		119	50 - 150
Benz(a)anthracene	0.0497	0.0544		ug/L		110	50 - 150
Benzo[a]pyrene	0.0199	0.0244		ug/L		123	50 - 150
Benzo[b]fluoranthene	0.0199	0.0225		ug/L		113	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0489	J	ug/L		99	50 - 150
Benzo[k]fluoranthene	0.0199	0.0247		ug/L		124	50 - 150
beta-BHC	0.0993	0.108		ug/L		108	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.689		ug/L		116	50 - 150
Bromacil	0.0993	0.115		ug/L		116	50 - 150

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-244045/22-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	0.0497	0.0637		ug/L		128	50 - 150
Butylbenzylphthalate	0.497	0.551		ug/L		111	50 - 150
Chlorobenzilate	0.0993	0.106		ug/L		106	50 - 150
Chloroneb	0.0993	0.105		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.0983	J	ug/L		99	50 - 150
Chlorpyrifos	0.0497	0.0474	J	ug/L		95	50 - 150
Chrysene	0.0199	0.0219		ug/L		110	50 - 150
delta-BHC	0.0993	0.102		ug/L		102	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.671		ug/L		113	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0532		ug/L		107	50 - 150
Diclorvos (DDVP)	0.0497	0.0542		ug/L		109	50 - 150
Dieldrin	0.00993	0.00917	J	ug/L		92	50 - 150
Diethylphthalate	0.497	0.570		ug/L		115	50 - 150
Dimethylphthalate	0.497	0.517		ug/L		104	50 - 150
Di-n-butyl phthalate	0.497	0.607	J	ug/L		122	49 - 243
Di-n-octyl phthalate	0.0993	0.126		ug/L		127	50 - 150
Endosulfan I (Alpha)	0.0993	0.0919	J	ug/L		93	50 - 150
Endosulfan II (Beta)	0.0993	0.113		ug/L		114	50 - 150
Endosulfan sulfate	0.0993	0.105		ug/L		106	50 - 150
Endrin	0.00993	0.0105		ug/L		106	50 - 150
Endrin aldehyde	0.0993	0.103		ug/L		104	50 - 150
EPTC	0.0993	0.101		ug/L		101	50 - 150
Fluoranthene	0.0993	0.103		ug/L		103	50 - 150
Fluorene	0.0497	0.0516		ug/L		104	50 - 150
gamma-Chlordane	0.0248	0.0260	J	ug/L		105	50 - 150
Heptachlor	0.00993	0.0104		ug/L		104	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0112		ug/L		113	50 - 150
Hexachlorobenzene	0.0497	0.0461	J	ug/L		93	50 - 150
Hexachlorocyclopentadiene	0.0497	<0.038		ug/L		59	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0539		ug/L		108	50 - 150
Isophorone	0.0993	0.111		ug/L		112	50 - 150
Lindane	0.00993	0.00993		ug/L		100	50 - 150
Malathion	0.0993	0.111		ug/L		112	50 - 150
Methoxychlor	0.0497	0.0595		ug/L		120	50 - 150
Metolachlor	0.0497	0.0551		ug/L		111	50 - 150
Molinate	0.0993	0.105		ug/L		106	50 - 150
Naphthalene	0.0993	0.0899	J	ug/L		91	50 - 150
Parathion	0.0993	0.101		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.111		ug/L		111	50 - 150
Phenanthrene	0.0397	0.0411		ug/L		103	50 - 150
Propachlor	0.0497	0.0551		ug/L		111	50 - 150
Pyrene	0.0497	0.0547		ug/L		110	50 - 150
Simazine	0.0497	0.0504		ug/L		102	50 - 150
Terbacil	0.0993	0.110		ug/L		111	50 - 150
Terbuthylazine	0.0993	0.110		ug/L		110	50 - 150
Thiobencarb	0.0993	0.109		ug/L		110	50 - 150
trans-Nonachlor	0.0248	0.0288	J	ug/L		116	50 - 150
Trifluralin	0.0993	0.106		ug/L		107	50 - 150

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-244045/22-A

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244045

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: 380-228290-B-1-A MS

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.93	1.91		ug/L		99	70 - 130
2,4'-DDD	<0.097		1.93	1.98		ug/L		103	70 - 130
2,4'-DDE	<0.097		1.93	1.85		ug/L		96	70 - 130
2,4'-DDT	<0.097		1.93	1.89		ug/L		98	70 - 130
2,4-Dinitrotoluene	<0.097		1.93	2.14		ug/L		111	70 - 130
2,6-Dinitrotoluene	<0.097		1.93	2.12		ug/L		110	70 - 130
2-Methylnaphthalene	<0.097		1.93	1.94		ug/L		101	70 - 130
4,4'-DDD	<0.097		1.93	1.97		ug/L		102	70 - 130
4,4'-DDE	<0.097		1.93	1.88		ug/L		97	70 - 130
4,4'-DDT	<0.097		1.93	1.87		ug/L		97	70 - 130
Acenaphthene	<0.097		1.93	2.01		ug/L		104	70 - 130
Acenaphthylene	<0.097		1.93	1.81		ug/L		94	70 - 130
Acetochlor	<0.097		1.93	2.00		ug/L		104	70 - 130
Alachlor	<0.048		1.93	2.00		ug/L		104	70 - 130
alpha-BHC	<0.097		1.93	1.94		ug/L		100	70 - 130
alpha-Chlordane	<0.048		1.93	1.91		ug/L		99	70 - 130
Anthracene	<0.019		1.93	1.34		ug/L		70	70 - 130
Atrazine	<0.048		1.93	2.06		ug/L		107	70 - 130
Benz(a)anthracene	<0.048		1.93	1.86		ug/L		96	70 - 130
Benzo[a]pyrene	<0.019		1.93	1.86		ug/L		96	70 - 130
Benzo[b]fluoranthene	<0.019		1.93	2.08		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.048		1.93	1.96		ug/L		102	70 - 130
Benzo[k]fluoranthene	<0.019		1.93	2.00		ug/L		104	70 - 130
beta-BHC	<0.097		1.93	1.92		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.93	1.81		ug/L		94	70 - 130
Bromacil	<0.097		1.93	2.03		ug/L		106	70 - 130
Butachlor	<0.048		1.93	2.09		ug/L		108	70 - 130
Butylbenzylphthalate	<0.48		1.93	2.08		ug/L		108	70 - 130
Chlorobenzilate	<0.097		1.93	2.03		ug/L		105	70 - 130
Chloroneb	<0.097		1.93	1.93		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.93	1.94		ug/L		101	70 - 130
Chlorpyrifos	<0.048		1.93	2.02		ug/L		105	70 - 130
Chrysene	<0.019		1.93	1.99		ug/L		103	70 - 130
delta-BHC	<0.097		1.93	1.88		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.93	1.88		ug/L		97	70 - 130
Dibenz(a,h)anthracene	<0.048		1.93	1.83		ug/L		95	70 - 130
Diclorvos (DDVP)	<0.048		1.93	2.01		ug/L		104	70 - 130
Dieldrin	<0.0097		1.93	1.93		ug/L		100	70 - 130
Diethylphthalate	<0.48		1.93	2.05		ug/L		106	70 - 130

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-228290-B-1-A MS

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.48		1.93	2.02		ug/L		105	70 - 130
Di-n-butyl phthalate	<0.97		3.85	4.04		ug/L		99	70 - 130
Di-n-octyl phthalate	<0.097		1.93	1.75		ug/L		91	70 - 130
Endosulfan I (Alpha)	<0.097		1.93	1.90		ug/L		99	70 - 130
Endosulfan II (Beta)	<0.097		1.93	1.96		ug/L		102	70 - 130
Endosulfan sulfate	<0.097		1.93	1.90		ug/L		99	70 - 130
Endrin	<0.0097		1.93	1.96		ug/L		102	70 - 130
Endrin aldehyde	<0.097		1.93	1.59		ug/L		83	60 - 130
EPTC	<0.097		1.93	1.99		ug/L		103	70 - 130
Fluoranthene	<0.097		1.93	2.11		ug/L		110	70 - 130
Fluorene	<0.048		1.93	1.99		ug/L		103	70 - 130
gamma-Chlordane	<0.048		1.93	1.92		ug/L		100	70 - 130
Heptachlor	<0.0097		1.93	1.90		ug/L		98	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.93	1.92		ug/L		100	70 - 130
Hexachlorobenzene	<0.048		1.93	1.95		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.048		1.93	1.89		ug/L		98	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.93	1.90		ug/L		99	70 - 130
Isophorone	<0.097		1.93	1.96		ug/L		101	70 - 130
Lindane	<0.0097		1.93	1.99		ug/L		103	70 - 130
Malathion	<0.097		1.93	2.05		ug/L		106	70 - 130
Methoxychlor	<0.048		1.93	2.16		ug/L		112	70 - 130
Metolachlor	<0.048		1.93	2.04		ug/L		106	70 - 130
Molinate	<0.097		1.93	2.03		ug/L		106	70 - 130
Naphthalene	<0.097		1.93	1.89		ug/L		98	70 - 130
Parathion	<0.097		1.93	2.22		ug/L		115	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.93	2.06		ug/L		107	70 - 130
Phenanthrene	<0.039		1.93	1.95		ug/L		101	70 - 130
Propachlor	<0.048		1.93	2.06		ug/L		107	70 - 130
Pyrene	<0.048		1.93	2.04		ug/L		106	70 - 130
Simazine	<0.048		1.93	2.02		ug/L		105	70 - 130
Terbacil	<0.097		1.93	2.11		ug/L		109	70 - 130
Terbutylazine	<0.097		1.93	2.10		ug/L		109	70 - 130
Thiobencarb	<0.097		1.93	1.97		ug/L		102	70 - 130
trans-Nonachlor	<0.048		1.93	1.86		ug/L		96	70 - 130
Trifluralin	<0.097		1.93	2.02		ug/L		105	70 - 130

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

Lab Sample ID: 380-228290-B-2-A DU

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
2,4'-DDD	<0.097		<0.096		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-228290-B-2-A DU

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDE	<0.097		<0.096		ug/L		NC	20
2,4'-DDT	<0.097		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
4,4'-DDD	<0.097		<0.096		ug/L		NC	20
4,4'-DDE	<0.097		<0.096		ug/L		NC	20
4,4'-DDT	<0.097		<0.096		ug/L		NC	20
Acenaphthene	<0.097		<0.096		ug/L		NC	20
Acenaphthylene	<0.097		<0.096		ug/L		NC	20
Acetochlor	<0.097		<0.096		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.096		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		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		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.096		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.096		ug/L		NC	20
Chloroneb	<0.097		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.096		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	<0.0097		<0.0096		ug/L		NC	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.096		ug/L		NC	20
Endrin	<0.0097		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.097		<0.096		ug/L		NC	20
EPTC	<0.097		<0.096		ug/L		NC	20
Fluoranthene	<0.097		<0.096		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-228290-B-2-A DU

Matrix: Water

Analysis Batch: 244228

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 244045

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0097		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.096		ug/L		NC	20
Lindane	<0.0097		<0.0096		ug/L		NC	20
Malathion	<0.097		<0.096		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.097		<0.096		ug/L		NC	20
Naphthalene	<0.097		<0.096		ug/L		NC	20
Parathion	<0.097		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.096		ug/L		NC	20
Phenanthrene	<0.039		<0.038		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.096		ug/L		NC	20
Terbuthylazine	<0.097		<0.096		ug/L		NC	20
Thiobencarb	<0.097		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.096		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	100		70 - 130

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

Lab Sample ID: MB 570-777552/1-A

Matrix: Water

Analysis Batch: 779378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777552

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	07/31/26 17:01	08/05/26 08:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		33 - 139	07/31/26 17:01	08/05/26 08:13	1
2-Fluorobiphenyl (Surr)	87		33 - 126	07/31/26 17:01	08/05/26 08:13	1
2-Fluorophenol (Surr)	58		12 - 120	07/31/26 17:01	08/05/26 08:13	1
Nitrobenzene-d5 (Surr)	95		36 - 120	07/31/26 17:01	08/05/26 08:13	1
Phenol-d6 (Surr)	38		10 - 120	07/31/26 17:01	08/05/26 08:13	1
p-Terphenyl-d14 (Surr)	88		47 - 131	07/31/26 17:01	08/05/26 08:13	1

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-777552/1-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Acenaphthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Acenaphthylene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Anthracene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Chrysene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Fluoranthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Fluorene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Naphthalene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Phenanthrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Pyrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	07/31/26 17:01	08/02/26 14:22	1
2-Fluorobiphenyl (Surr)	73		31 - 120	07/31/26 17:01	08/02/26 14:22	1
2-Fluorophenol (Surr)	58		17 - 120	07/31/26 17:01	08/02/26 14:22	1
Nitrobenzene-d5 (Surr)	75		27 - 120	07/31/26 17:01	08/02/26 14:22	1
Phenol-d6 (Surr)	34		10 - 120	07/31/26 17:01	08/02/26 14:22	1
p-Terphenyl-d14 (Surr)	72		45 - 120	07/31/26 17:01	08/02/26 14:22	1

Lab Sample ID: LCS 570-777552/2-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	11.0		ug/L		55	47 - 120
2-Methylnaphthalene	20.0	11.1		ug/L		55	43 - 120
Acenaphthene	20.0	14.3		ug/L		72	60 - 132
Acenaphthylene	20.0	14.0		ug/L		70	54 - 126
Anthracene	20.0	13.7		ug/L		69	43 - 120
Benzo[a]anthracene	20.0	16.1		ug/L		81	42 - 133
Benzo[a]pyrene	20.0	16.7		ug/L		83	32 - 148
Benzo[b]fluoranthene	20.0	15.9		ug/L		80	42 - 140
Benzo[g,h,i]perylene	20.0	14.8		ug/L		74	1 - 195
Benzo[k]fluoranthene	20.0	14.9		ug/L		74	25 - 146
Chrysene	20.0	15.3		ug/L		77	44 - 140
Dibenz(a,h)anthracene	20.0	14.9		ug/L		74	1 - 200
Fluoranthene	20.0	14.9		ug/L		75	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	14.7		ug/L		74	1 - 151
Naphthalene	20.0	9.84		ug/L		49	36 - 120

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QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-777552/2-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	14.3		ug/L		71	65 - 120
Pyrene	20.0	16.3		ug/L		81	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

Lab Sample ID: LCSD 570-777552/3-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	11.4		ug/L		57	47 - 120	3	20
2-Methylnaphthalene	20.0	11.4		ug/L		57	43 - 120	3	20
Acenaphthene	20.0	14.9		ug/L		74	60 - 132	4	29
Acenaphthylene	20.0	14.7		ug/L		74	54 - 126	5	45
Anthracene	20.0	14.5		ug/L		73	43 - 120	6	40
Benzo[a]anthracene	20.0	17.1		ug/L		86	42 - 133	6	32
Benzo[a]pyrene	20.0	17.8		ug/L		89	32 - 148	7	43
Benzo[b]fluoranthene	20.0	17.0		ug/L		85	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	15.6		ug/L		78	1 - 195	6	61
Benzo[k]fluoranthene	20.0	16.0		ug/L		80	25 - 146	7	38
Chrysene	20.0	16.2		ug/L		81	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	15.6		ug/L		78	1 - 200	5	75
Fluoranthene	20.0	15.8		ug/L		79	43 - 121	6	40
Fluorene	20.0	16.2		ug/L		81	70 - 120	5	23
Indeno[1,2,3-cd]pyrene	20.0	15.6		ug/L		78	1 - 151	6	60
Naphthalene	20.0	10.3		ug/L		51	36 - 120	4	39
Phenanthrene	20.0	14.8		ug/L		74	65 - 120	4	24
Pyrene	20.0	17.3		ug/L		86	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-227684-A-1-A MS

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	10.4		ug/L		54	36 - 120
2-Methylnaphthalene	<0.19		19.2	10.4		ug/L		54	32 - 124
Acenaphthene	<0.19		19.2	13.0		ug/L		68	47 - 145
Acenaphthylene	<0.19		19.2	12.7		ug/L		66	33 - 145
Anthracene	<0.19		19.2	12.4		ug/L		65	27 - 133
Benzo[a]anthracene	<0.19		19.2	14.3		ug/L		74	33 - 143
Benzo[a]pyrene	<0.19		19.2	14.8		ug/L		77	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	14.2		ug/L		74	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	13.1		ug/L		68	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	13.2		ug/L		69	11 - 162
Chrysene	<0.19		19.2	13.5		ug/L		70	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	13.1		ug/L		68	1 - 227
Fluoranthene	<0.19		19.2	13.3		ug/L		69	26 - 137
Fluorene	<0.19		19.2	14.2		ug/L		74	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	13.0		ug/L		68	1 - 171
Naphthalene	<0.19		19.2	9.41		ug/L		49	21 - 133
Phenanthrene	<0.19		19.2	12.6		ug/L		65	54 - 120
Pyrene	<0.19		19.2	14.1		ug/L		73	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	68		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	75		45 - 120

Lab Sample ID: 380-227684-A-1-B MSD

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	10.2		ug/L		53	36 - 120	2	30
2-Methylnaphthalene	<0.19		19.1	10.2		ug/L		53	32 - 124	3	30
Acenaphthene	<0.19		19.1	12.4		ug/L		65	47 - 145	5	48
Acenaphthylene	<0.19		19.1	12.3		ug/L		64	33 - 145	3	74
Anthracene	<0.19		19.1	12.0		ug/L		63	27 - 133	4	66
Benzo[a]anthracene	<0.19		19.1	13.8		ug/L		72	33 - 143	4	53
Benzo[a]pyrene	<0.19		19.1	14.1		ug/L		74	17 - 163	5	72
Benzo[b]fluoranthene	<0.19		19.1	13.6		ug/L		71	24 - 159	4	71
Benzo[g,h,i]perylene	<0.19		19.1	12.5		ug/L		66	1 - 219	5	97
Benzo[k]fluoranthene	<0.19		19.1	12.7		ug/L		67	11 - 162	4	63
Chrysene	<0.19		19.1	12.8		ug/L		67	17 - 168	6	87
Dibenz(a,h)anthracene	<0.19		19.1	12.6		ug/L		66	1 - 227	4	126
Fluoranthene	<0.19		19.1	12.9		ug/L		68	26 - 137	3	66
Fluorene	<0.19		19.1	13.3		ug/L		70	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	12.3		ug/L		65	1 - 171	5	99
Naphthalene	<0.19		19.1	9.16		ug/L		48	21 - 133	3	65

Eurofins Pomona

QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-227684-A-1-B MSD

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.1	12.3		ug/L		64	54 - 120	2	39
Pyrene	<0.19		19.1	13.7		ug/L		72	52 - 120	3	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	70		28 - 127
2-Fluorobiphenyl (Surr)	66		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	73		45 - 120

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

Lab Sample ID: MB 570-781313/6

Matrix: Water

Analysis Batch: 781313

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			08/08/26 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		08/08/26 12:57	1

Lab Sample ID: LCS 570-781313/3

Matrix: Water

Analysis Batch: 781313

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	398		ug/L		99	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		38 - 134

Lab Sample ID: LCSD 570-781313/4

Matrix: Water

Analysis Batch: 781313

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	379		ug/L		95	78 - 120	5	10

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

QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-781313/5

Matrix: Water

Analysis Batch: 781313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			10.0	13.4		ug/L		134	50 - 150		
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		38 - 134								

Lab Sample ID: 380-228215-B-1 MS

Matrix: Water

Analysis Batch: 781313

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)	<10		400	362		ug/L		90	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

Lab Sample ID: 380-228215-B-1 MSD

Matrix: Water

Analysis Batch: 781313

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	<10		400	363		ug/L		91	68 - 122	0	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

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

Lab Sample ID: MB 570-778241/1-A

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 778241

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/03/26 09:39	08/09/26 08:17	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/03/26 09:39	08/09/26 08:17	1
C8-C18	<25		25	ug/L		08/03/26 09:39	08/09/26 08:17	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		60 - 130			08/03/26 09:39	08/09/26 08:17	1

Lab Sample ID: LCS 570-778241/2-A

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 778241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1310		ug/L		82	56 - 127

Eurofins Pomona

QC Sample Results

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-778241/2-A

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 778241

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	110		60 - 130

Lab Sample ID: LCSD 570-778241/3-A

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 778241

	Spike	LCSD	LCSD						%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
C10-C28	1600	1300		ug/L		81	56 - 127	1	23			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	103		60 - 130

Lab Sample ID: MRL 570-778241/4-A

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 778241

	Spike	MRL	MRL						%Rec			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits					
C10-C28	0.0200	0.0235	J	mg/L		118	50 - 150					

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	117		60 - 130

Lab Sample ID: 380-228215-C-1-A MS

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 778241

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
C10-C28	<25		1630	1170		ug/L		72	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	106		60 - 130

Lab Sample ID: 380-228215-C-1-B MSD

Matrix: Water

Analysis Batch: 781453

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 778241

	Sample	Sample	Spike	MSD	MSD				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<25		1610	1170		ug/L		72	70 - 130	0	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	101		60 - 130

QC Association Summary

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 244045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-244045/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-244045/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-244045/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-244045/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-228290-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-228290-B-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 244228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	244045
MB 380-244045/21-A	Method Blank	Total/NA	Water	525.2	244045
LCS 380-244045/23-A	Lab Control Sample	Total/NA	Water	525.2	244045
LCSD 380-244045/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	244045
MRL 380-244045/22-A	Lab Control Sample	Total/NA	Water	525.2	244045
380-228290-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	244045
380-228290-B-2-A DU	Duplicate	Total/NA	Water	525.2	244045

Prep Batch: 777552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-777552/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-777552/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-777552/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-227684-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-227684-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 777955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-777552/1-A	Method Blank	Total/NA	Water	625.1 SIM	777552
LCS 570-777552/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	777552
LCSD 570-777552/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	777552
380-227684-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	777552
380-227684-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	777552

Analysis Batch: 779378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-777552/1-A	Method Blank	Total/NA	Water	625.1	777552

Analysis Batch: 779707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	777552

Analysis Batch: 781802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	777552

QC Association Summary

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA

Analysis Batch: 781313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-228227-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-781313/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-781313/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-781313/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-781313/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-228215-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-228215-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 778241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-778241/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-778241/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-778241/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-778241/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-228215-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-228215-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 781453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228227-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	778241
MB 570-778241/1-A	Method Blank	Total/NA	Water	8015B	778241
LCS 570-778241/2-A	Lab Control Sample	Total/NA	Water	8015B	778241
LCSD 570-778241/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	778241
MRL 570-778241/4-A	Lab Control Sample	Total/NA	Water	8015B	778241
380-228215-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	778241
380-228215-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	778241

Lab Chronicle

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

Job ID: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-1

Date Collected: 07/28/26 09:30

Matrix: Water

Date Received: 07/31/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			244045	L9UA	EA POM	08/03/26 10:16
Total/NA	Analysis	525.2		1	244228	Q8LA	EA POM	08/04/26 20:41
Total/NA	Prep	625.1			777552	TIZL	EET CAL 4	08/01/26 13:14
Total/NA	Analysis	625.1		1	779707	S4EA	EET CAL 4	08/05/26 22:52
Total/NA	Prep	625.1			777552	TIZL	EET CAL 4	08/01/26 13:14
Total/NA	Analysis	625.1 SIM		1	781802	PQS1	EET CAL 4	08/10/26 13:07
Total/NA	Analysis	8015B GRO LL		1	781313	7CF2	EET CAL 4	08/08/26 19:07
Total/NA	Prep	3510C			778241	ATRL	EET CAL 4	08/03/26 09:48
Total/NA	Analysis	8015B		1	781453	H6FE	EET CAL 4	08/09/26 11:08

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-228227-2

Date Collected: 07/28/26 09:30

Matrix: Water

Date Received: 07/31/26 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	781313	7CF2	EET CAL 4	08/08/26 14:38

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: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Pomona

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

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

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

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

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-228227-1
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
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-30-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-228227-1
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: 380-228227-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-228227-1	HALAWA SHAFT VIEWING POOL	Water	07/28/26 09:30	07/31/26 10:00	Hawaii
380-228227-2	TB: HALAWA SHAFT VIEWING POOL	Water	07/28/26 09:30	07/31/26 10:00	Hawaii

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14
- 15
- 16



380-228227 COC

Client Information				Sampler: Kai Edison		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:		Analysis Requested					
Address: 630 South Beretania Street Chemistry Lab				Due Date Requested:		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					
City: Honolulu				TAT Requested (days):							
State, Zip: HI, 96843				Compliance Project: Δ Yes Δ No							
Phone: 808-748-5840 (Tel)				PO #: C20525101 exp 05312023							
Email: kiwamoto@hbws.org				WO #:							
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill				Project #: 38001111		Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate					
Site: Hawaii				SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/sol, ST=Tissue, A=Air)	Special Instructions/Note:					
HALAWA SHAFT VIEWING POOL		28-Jul-2026	9:30	G	Water						
TB: HALAWA SHAFT VIEWING POOL		28-Jul-2026		G	Water						
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)					
Deliverable Requested: I, II, III, IV, Other (specify)						☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: FedEx 8750 67782085					
Relinquish:		Date/Time: 7/29/26 12:00		Company: HBWS		Received by: Maria Lopez		Date/Time: 7/29/26 1000		Company: CEAP	
Relinquish:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquish:		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: 5.4 + 0.0 - 5.4 g/g - frozen					

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

SHIP DATE: 29JUL26
ACTWGT: 36.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100

REF:

INV:

PO:

DEPT:



FedEx
Express



3 of 3

THU - 30 JUL 10:30A

MPS# 8750 6278 2100

0263

0201

Mstr# 8750 6278 2085

91768

WM ONTA

CA-US ONT



RC: Deyan Harrison JH
@: EEAP
By: FEDX 7.31.26 1030
G31A 9.7±0=3.7°C Gnd Partially

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

Ver: 03/20/2026
8/11/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-228227-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 228227

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-228227-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 228227

List Source: Eurofins Calscience

List Number: 2

List Creation: 07/31/26 07:16 PM

Creator: Khana, Piyush

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