

# ANALYTICAL REPORT

## PREPARED FOR

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Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Wells Pumps 1&2 P2  
RUSH Weekly Red Hill

## JOB NUMBER

380-188314-1

# Eurofins Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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# Definitions/Glossary

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA TICs

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

### GC Semi VOA

Qualifier	Qualifier Description
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: 380-188314-1

**Job ID: 380-188314-1**

**Eurofins Pomona**

## Job Narrative 380-188314-1

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 12/17/2025 10:30 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 1.5°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: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-188314-1**

No Detections.

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-188314-2**

No Detections.

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

This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-188314-1**

Date Collected: 12/15/25 11:43

Matrix: Drinking Water

Date Received: 12/17/25 10:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
2,4'-DDD	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
2,4'-DDE	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
2,4'-DDT	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
4,4'-DDD	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
4,4'-DDE	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
4,4'-DDT	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Acenaphthene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Acenaphthylene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Acetochlor	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Alachlor	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
alpha-BHC	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
alpha-Chlordane	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Anthracene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 15:27	1
Atrazine	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 15:27	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 15:27	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 15:27	1
beta-BHC	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/18/25 08:16	12/19/25 15:27	1
Bromacil	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Butachlor	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/18/25 08:16	12/19/25 15:27	1
Chlorobenzilate	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Chloroneb	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Chlorpyrifos	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Chrysene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 15:27	1
delta-BHC	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/18/25 08:16	12/19/25 15:27	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Dieldrin	<0.0098		0.0098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Diethylphthalate	<0.49		0.49	ug/L		12/18/25 08:16	12/19/25 15:27	1
Dimethylphthalate	<0.49		0.49	ug/L		12/18/25 08:16	12/19/25 15:27	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/18/25 08:16	12/19/25 15:27	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Endrin	<0.0098		0.0098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Endrin aldehyde	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
EPTC	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1

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# Client Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-188314-1**

Date Collected: 12/15/25 11:43

Matrix: Drinking Water

Date Received: 12/17/25 10:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Fluorene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
gamma-Chlordane	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Heptachlor	<0.0098		0.0098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Isophorone	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Lindane	<0.0098		0.0098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Malathion	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Methoxychlor	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Metolachlor	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Molinate	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Naphthalene	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Parathion	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Phenanthrene	<0.039		0.039	ug/L		12/18/25 08:16	12/19/25 15:27	1
Propachlor	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Pyrene	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Simazine	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Terbacil	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Terbutylazine	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Thiobencarb	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/18/25 08:16	12/19/25 15:27	1
trans-Nonachlor	<0.049		0.049	ug/L		12/18/25 08:16	12/19/25 15:27	1
Trifluralin	<0.098		0.098	ug/L		12/18/25 08:16	12/19/25 15:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/18/25 08:16	12/19/25 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	12/18/25 08:16	12/19/25 15:27	1
Perylene-d12	80		70 - 130	12/18/25 08:16	12/19/25 15:27	1
Triphenylphosphate	106		70 - 130	12/18/25 08:16	12/19/25 15:27	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		12/17/25 22:00	12/26/25 14:40	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Acenaphthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Acenaphthylene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Chrysene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1

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# Client Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-188314-1**

Date Collected: 12/15/25 11:43

Matrix: Drinking Water

Date Received: 12/17/25 10:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Fluorene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Naphthalene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Phenanthrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		28 - 127			12/17/25 22:00	12/26/25 14:40	1
2-Fluorobiphenyl (Surr)	83		31 - 120			12/17/25 22:00	12/26/25 14:40	1
2-Fluorophenol (Surr)	56		17 - 120			12/17/25 22:00	12/26/25 14:40	1
Nitrobenzene-d5 (Surr)	83		27 - 120			12/17/25 22:00	12/26/25 14:40	1
Phenol-d6 (Surr)	35		10 - 120			12/17/25 22:00	12/26/25 14:40	1
p-Terphenyl-d14 (Surr)	81		45 - 120			12/17/25 22:00	12/26/25 14:40	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	12/17/25 22:00	12/29/25 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		33 - 139				12/17/25 22:00	12/29/25 17:56	1
2-Fluorobiphenyl (Surr)	80		33 - 126				12/17/25 22:00	12/29/25 17:56	1
2-Fluorophenol (Surr)	66		12 - 120				12/17/25 22:00	12/29/25 17:56	1
Nitrobenzene-d5 (Surr)	90		36 - 120				12/17/25 22:00	12/29/25 17:56	1
Phenol-d6 (Surr)	37		10 - 120				12/17/25 22:00	12/29/25 17:56	1
p-Terphenyl-d14 (Surr)	83		47 - 131				12/17/25 22:00	12/29/25 17:56	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			12/28/25 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		38 - 134				12/28/25 16:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		12/18/25 08:24	01/07/26 01:06	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		12/18/25 08:24	01/07/26 01:06	1
C8-C18	<26		26	ug/L		12/18/25 08:24	01/07/26 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		60 - 130			12/18/25 08:24	01/07/26 01:06	1

# Client Sample Results

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
 (331-203-TP400)**

**Lab Sample ID: 380-188314-2**

Date Collected: 12/15/25 11:43

Matrix: Water

Date Received: 12/17/25 10:30

**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			12/28/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		38 - 134				12/28/25 14:14	1

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

# Action Limit Summary

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-188314-1**

## Compliance Check

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

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

# Surrogate Summary

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

Matrix: Drinking 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)
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260)	102	80	106

**Surrogate Legend**

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

## 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)
380-188304-O-1-A MS	Matrix Spike	102	97	107
380-188305-I-1-A DU	Duplicate	102	90	105
LCS 380-193222/23-A	Lab Control Sample	100	94	105
LCSD 380-193222/24-A	Lab Control Sample Dup	101	93	105
MB 380-193222/21-A	Method Blank	101	92	102
MRL 380-193222/22-A	Lab Control Sample	99	85	105

**Surrogate Legend**

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

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

Matrix: Drinking 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)
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260)	78	80	66	90	37	83

**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 - 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)
MB 570-671320/1-A	Method Blank	71	81	58	83	32	82

**Surrogate Legend**

- TBP = 2,4,6-Tribromophenol (Surr)
- FBP = 2-Fluorobiphenyl (Surr)
- 2FP = 2-Fluorophenol (Surr)

# Surrogate Summary

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

NBZ = Nitrobenzene-d5 (Surr)  
 PHL6 = Phenol-d6 (Surr)  
 TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking 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)
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260)	83	83	56	83	35	81

**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)
LCS 570-671320/2-A	Lab Control Sample	75	73	58	63	38	77
LCSD 570-671320/3-A	Lab Control Sample Dup	84	85	63	71	41	83
MB 570-671320/1-A	Method Blank	84	78	52	76	33	73

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260)	103

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-188314-2	TB: AIEA WELLS PUMPS 1&2 (260)	106
380-189454-B-1 MS	Matrix Spike	101
380-189454-B-1 MSD	Matrix Spike Duplicate	101
LCS 570-675935/4	Lab Control Sample	100

# Surrogate Summary

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
LCSD 570-675935/5	Lab Control Sample Dup	105
MB 570-675935/6	Method Blank	101
MRL 570-675935/3	Lab Control Sample	93

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-188314-1 - RA	AIEA WELLS PUMPS 1&2 P2 (260)	113

#### Surrogate Legend

OTCSN = n-Octacosane (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)
380-188308-B-1-A MS	Matrix Spike	129
380-188308-B-1-B MSD	Matrix Spike Duplicate	121
LCS 570-671434/2-A	Lab Control Sample	105
LCSD 570-671434/3-A	Lab Control Sample Dup	99
MB 570-671434/1-A	Method Blank	109
MRL 570-671434/4-A	Lab Control Sample	111

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: MB 380-193222/21-A**  
**Matrix: Water**  
**Analysis Batch: 193612**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193222**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
2,4'-DDD	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
2,4'-DDE	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
2,4'-DDT	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
2-Methylnaphthalene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
4,4'-DDD	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
4,4'-DDE	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
4,4'-DDT	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Acenaphthene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Acenaphthylene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Acetochlor	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Alachlor	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
alpha-BHC	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
alpha-Chlordane	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Anthracene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 12:46	1
Atrazine	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Benz(a)anthracene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 12:46	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 12:46	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 12:46	1
beta-BHC	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		12/18/25 08:16	12/19/25 12:46	1
Bromacil	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Butachlor	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Butylbenzylphthalate	<0.50		0.50	ug/L		12/18/25 08:16	12/19/25 12:46	1
Chlorobenzilate	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Chloroneb	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Chlorpyrifos	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Chrysene	<0.020		0.020	ug/L		12/18/25 08:16	12/19/25 12:46	1
delta-BHC	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		12/18/25 08:16	12/19/25 12:46	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Dieldrin	<0.0099		0.0099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Diethylphthalate	<0.50		0.50	ug/L		12/18/25 08:16	12/19/25 12:46	1
Dimethylphthalate	<0.50		0.50	ug/L		12/18/25 08:16	12/19/25 12:46	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		12/18/25 08:16	12/19/25 12:46	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Endosulfan sulfate	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Endrin	<0.0099		0.0099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Endrin aldehyde	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
EPTC	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MB 380-193222/21-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 193612

Prep Batch: 193222

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Fluorene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
gamma-Chlordane	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Heptachlor	<0.0099		0.0099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Hexachlorobenzene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Isophorone	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Lindane	<0.0099		0.0099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Malathion	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Methoxychlor	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Metolachlor	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Molinate	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Naphthalene	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Parathion	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Phenanthrene	<0.040		0.040	ug/L		12/18/25 08:16	12/19/25 12:46	1
Propachlor	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Pyrene	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Simazine	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Terbacil	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Terbutylazine	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Thiobencarb	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/18/25 08:16	12/19/25 12:46	1
trans-Nonachlor	<0.050		0.050	ug/L		12/18/25 08:16	12/19/25 12:46	1
Trifluralin	<0.099		0.099	ug/L		12/18/25 08:16	12/19/25 12:46	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	2.89	T J N	ug/L		3.23	1120-21-4	12/18/25 08:16	12/19/25 12:46	1
Tridecane, 1-iodo-	0.515	T J N	ug/L		3.88	35599-77-0	12/18/25 08:16	12/19/25 12:46	1
Unknown	0.974	T J	ug/L		3.94	N/A	12/18/25 08:16	12/19/25 12:46	1
9-Octadecenamide, (Z)-	4.54	T J N	ug/L		8.06	301-02-0	12/18/25 08:16	12/19/25 12:46	1
9-Octadecenamide, (Z)-	1.01	T J N	ug/L		8.16	301-02-0	12/18/25 08:16	12/19/25 12:46	1
Unknown	0.951	T J	ug/L		9.70	N/A	12/18/25 08:16	12/19/25 12:46	1
13-Docosenamide, (Z)-	0.634	T J N	ug/L		10.63	112-84-5	12/18/25 08:16	12/19/25 12:46	1
Eicosane	0.675	T J N	ug/L		15.21	112-95-8	12/18/25 08:16	12/19/25 12:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	101		70 - 130	12/18/25 08:16	12/19/25 12:46	1
Perylene-d12	92		70 - 130	12/18/25 08:16	12/19/25 12:46	1
Triphenylphosphate	102		70 - 130	12/18/25 08:16	12/19/25 12:46	1

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID:** LCS 380-193222/23-A  
**Matrix:** Water  
**Analysis Batch:** 193612

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 193222

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1-Methylnaphthalene	1.99	1.93		ug/L		97	70 - 130
2,4'-DDD	1.99	2.25		ug/L		113	70 - 130
2,4'-DDE	1.99	2.17		ug/L		109	70 - 130
2,4'-DDT	1.99	2.01		ug/L		101	70 - 130
2,4-Dinitrotoluene	1.99	1.93		ug/L		97	70 - 130
2,6-Dinitrotoluene	1.99	1.96		ug/L		98	70 - 130
2-Methylnaphthalene	1.99	1.98		ug/L		100	70 - 130
4,4'-DDD	1.99	2.06		ug/L		104	70 - 130
4,4'-DDE	1.99	1.89		ug/L		95	70 - 130
4,4'-DDT	1.99	2.09		ug/L		105	70 - 130
Acenaphthene	1.99	1.93		ug/L		97	70 - 130
Acenaphthylene	1.99	2.03		ug/L		102	70 - 130
Acetochlor	1.99	2.27		ug/L		114	70 - 130
Alachlor	1.99	2.14		ug/L		108	70 - 130
alpha-BHC	1.99	1.98		ug/L		99	70 - 130
alpha-Chlordane	1.99	2.06		ug/L		104	70 - 130
Anthracene	1.99	1.95		ug/L		98	70 - 130
Atrazine	1.99	2.10		ug/L		106	70 - 130
Benz(a)anthracene	1.99	1.96		ug/L		98	70 - 130
Benzo[a]pyrene	1.99	2.26		ug/L		114	70 - 130
Benzo[b]fluoranthene	1.99	2.34		ug/L		118	70 - 130
Benzo[g,h,i]perylene	1.99	2.04		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.99	1.98		ug/L		100	70 - 130
beta-BHC	1.99	1.91		ug/L		96	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.03		ug/L		102	70 - 130
Bromacil	1.99	1.86		ug/L		94	70 - 130
Butachlor	1.99	2.27		ug/L		114	70 - 130
Butylbenzylphthalate	1.99	2.38		ug/L		120	70 - 130
Chlorobenzilate	1.99	2.26		ug/L		114	70 - 130
Chloroneb	1.99	2.02		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.00		ug/L		101	70 - 130
Chlorpyrifos	1.99	2.08		ug/L		105	70 - 130
Chrysene	1.99	1.99		ug/L		100	70 - 130
delta-BHC	1.99	1.97		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.34		ug/L		118	70 - 130
Dibenz(a,h)anthracene	1.99	2.08		ug/L		105	70 - 130
Diclorvos (DDVP)	1.99	2.04		ug/L		103	70 - 130
Dieldrin	1.99	2.18		ug/L		110	70 - 130
Diethylphthalate	1.99	2.33		ug/L		117	70 - 130
Dimethylphthalate	1.99	2.13		ug/L		107	70 - 130
Di-n-butyl phthalate	3.98	4.45		ug/L		112	70 - 130
Di-n-octyl phthalate	1.99	2.13		ug/L		107	70 - 130
Endosulfan I (Alpha)	1.99	1.95		ug/L		98	70 - 130
Endosulfan II (Beta)	1.99	1.99		ug/L		100	70 - 130
Endosulfan sulfate	1.99	2.00		ug/L		101	70 - 130
Endrin	1.99	2.44		ug/L		123	70 - 130
Endrin aldehyde	1.99	1.89		ug/L		95	60 - 130
EPTC	1.99	2.34		ug/L		118	70 - 130

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 380-193222/23-A

Matrix: Water

Analysis Batch: 193612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193222

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Fluoranthene	1.99	1.98		ug/L		100	70 - 130
Fluorene	1.99	1.97		ug/L		99	70 - 130
gamma-Chlordane	1.99	1.97		ug/L		99	70 - 130
Heptachlor	1.99	2.08		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	1.99	1.87		ug/L		94	70 - 130
Hexachlorobenzene	1.99	1.91		ug/L		96	70 - 130
Hexachlorocyclopentadiene	1.99	2.10		ug/L		106	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.20		ug/L		111	70 - 130
Isophorone	1.99	1.97		ug/L		99	70 - 130
Lindane	1.99	2.18		ug/L		110	70 - 130
Malathion	1.99	2.07		ug/L		104	70 - 130
Methoxychlor	1.99	2.16		ug/L		109	70 - 130
Metolachlor	1.99	2.22		ug/L		112	70 - 130
Molinate	1.99	2.16		ug/L		108	70 - 130
Naphthalene	1.99	1.96		ug/L		99	70 - 130
Parathion	1.99	2.03		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	1.99	2.04		ug/L		103	70 - 130
Phenanthrene	1.99	1.97		ug/L		99	70 - 130
Propachlor	1.99	2.35		ug/L		118	70 - 130
Pyrene	1.99	2.02		ug/L		101	70 - 130
Simazine	1.99	1.92		ug/L		97	70 - 130
Terbacil	1.99	2.29		ug/L		115	70 - 130
Terbutylazine	1.99	2.35		ug/L		118	70 - 130
Thiobencarb	1.99	2.11		ug/L		106	70 - 130
trans-Nonachlor	1.99	1.93		ug/L		97	70 - 130
Trifluralin	1.99	1.97		ug/L		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: LCSD 380-193222/24-A

Matrix: Water

Analysis Batch: 193612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 193222

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	1.98	1.94		ug/L		98	70 - 130	1	20
2,4'-DDD	1.98	2.25		ug/L		114	70 - 130	0	20
2,4'-DDE	1.98	2.18		ug/L		110	70 - 130	0	20
2,4'-DDT	1.98	2.06		ug/L		104	70 - 130	3	20
2,4-Dinitrotoluene	1.98	2.13		ug/L		107	70 - 130	10	20
2,6-Dinitrotoluene	1.98	2.15		ug/L		108	70 - 130	9	20
2-Methylnaphthalene	1.98	1.98		ug/L		100	70 - 130	0	20
4,4'-DDD	1.98	2.08		ug/L		105	70 - 130	1	20
4,4'-DDE	1.98	1.90		ug/L		96	70 - 130	0	20
4,4'-DDT	1.98	2.18		ug/L		110	70 - 130	4	20
Acenaphthene	1.98	1.94		ug/L		98	70 - 130	1	20

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# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: LCSD 380-193222/24-A

Matrix: Water

Analysis Batch: 193612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 193222

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acenaphthylene	1.98	2.06		ug/L		104	70 - 130	1	20	
Acetochlor	1.98	2.29		ug/L		116	70 - 130	1	20	
Alachlor	1.98	2.16		ug/L		109	70 - 130	1	20	
alpha-BHC	1.98	1.99		ug/L		100	70 - 130	1	20	
alpha-Chlordane	1.98	2.08		ug/L		105	70 - 130	1	20	
Anthracene	1.98	1.93		ug/L		97	70 - 130	1	20	
Atrazine	1.98	2.16		ug/L		109	70 - 130	3	20	
Benz(a)anthracene	1.98	1.94		ug/L		98	70 - 130	1	20	
Benzo[a]pyrene	1.98	2.25		ug/L		113	70 - 130	1	20	
Benzo[b]fluoranthene	1.98	2.31		ug/L		117	70 - 130	1	20	
Benzo[g,h,i]perylene	1.98	2.02		ug/L		102	70 - 130	1	20	
Benzo[k]fluoranthene	1.98	1.97		ug/L		100	70 - 130	1	20	
beta-BHC	1.98	1.96		ug/L		99	70 - 130	3	20	
Bis(2-ethylhexyl) phthalate	1.98	2.06		ug/L		104	70 - 130	1	20	
Bromacil	1.98	1.97		ug/L		99	70 - 130	6	20	
Butachlor	1.98	2.29		ug/L		116	70 - 130	1	20	
Butylbenzylphthalate	1.98	2.42		ug/L		122	70 - 130	2	20	
Chlorobenzilate	1.98	2.28		ug/L		115	70 - 130	1	20	
Chloroneb	1.98	2.05		ug/L		104	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.98	2.08		ug/L		105	70 - 130	4	20	
Chlorpyrifos	1.98	2.12		ug/L		107	70 - 130	2	20	
Chrysene	1.98	1.96		ug/L		99	70 - 130	2	20	
delta-BHC	1.98	1.99		ug/L		101	70 - 130	1	20	
Di(2-ethylhexyl)adipate	1.98	2.41		ug/L		122	70 - 130	3	20	
Dibenz(a,h)anthracene	1.98	2.11		ug/L		106	70 - 130	1	20	
Diclorvos (DDVP)	1.98	2.15		ug/L		109	70 - 130	5	20	
Dieldrin	1.98	2.21		ug/L		112	70 - 130	2	20	
Diethylphthalate	1.98	2.36		ug/L		119	70 - 130	1	20	
Dimethylphthalate	1.98	2.19		ug/L		111	70 - 130	3	20	
Di-n-butyl phthalate	3.96	4.50		ug/L		114	70 - 130	1	20	
Di-n-octyl phthalate	1.98	2.16		ug/L		109	70 - 130	1	20	
Endosulfan I (Alpha)	1.98	1.95		ug/L		98	70 - 130	0	20	
Endosulfan II (Beta)	1.98	1.99		ug/L		100	70 - 130	0	20	
Endosulfan sulfate	1.98	2.04		ug/L		103	70 - 130	2	20	
Endrin	1.98	2.45		ug/L		123	70 - 130	0	20	
Endrin aldehyde	1.98	1.77		ug/L		89	60 - 130	7	20	
EPTC	1.98	2.37		ug/L		120	70 - 130	1	20	
Fluoranthene	1.98	1.97		ug/L		100	70 - 130	0	20	
Fluorene	1.98	1.94		ug/L		98	70 - 130	1	20	
gamma-Chlordane	1.98	2.03		ug/L		102	70 - 130	3	20	
Heptachlor	1.98	2.15		ug/L		108	70 - 130	3	20	
Heptachlor epoxide (isomer B)	1.98	1.90		ug/L		96	70 - 130	2	20	
Hexachlorobenzene	1.98	1.90		ug/L		96	70 - 130	0	20	
Hexachlorocyclopentadiene	1.98	2.21		ug/L		112	70 - 130	5	20	
Indeno[1,2,3-cd]pyrene	1.98	2.20		ug/L		111	70 - 130	0	20	
Isophorone	1.98	2.04		ug/L		103	70 - 130	4	20	
Lindane	1.98	2.26		ug/L		114	70 - 130	4	20	
Malathion	1.98	2.09		ug/L		105	70 - 130	1	20	
Methoxychlor	1.98	2.24		ug/L		113	70 - 130	4	20	

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# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: LCSD 380-193222/24-A**

**Matrix: Water**

**Analysis Batch: 193612**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 193222**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Metolachlor	1.98	2.23		ug/L		113	70 - 130	0	20	
Molinate	1.98	2.20		ug/L		111	70 - 130	2	20	
Naphthalene	1.98	1.99		ug/L		100	70 - 130	1	20	
Parathion	1.98	2.11		ug/L		106	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.98	2.11		ug/L		107	70 - 130	3	20	
Phenanthrene	1.98	1.96		ug/L		99	70 - 130	0	20	
Propachlor	1.98	2.42		ug/L		122	70 - 130	3	20	
Pyrene	1.98	1.99		ug/L		100	70 - 130	1	20	
Simazine	1.98	2.03		ug/L		102	70 - 130	6	20	
Terbacil	1.98	2.45		ug/L		123	70 - 130	7	20	
Terbutylazine	1.98	2.39		ug/L		120	70 - 130	2	20	
Thiobencarb	1.98	2.13		ug/L		108	70 - 130	1	20	
trans-Nonachlor	1.98	1.98		ug/L		100	70 - 130	2	20	
Trifluralin	1.98	2.09		ug/L		105	70 - 130	6	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: MRL 380-193222/22-A**

**Matrix: Water**

**Analysis Batch: 193612**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193222**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0996	0.111		ug/L		111	50 - 150	
2,4'-DDD	0.0996	0.0844	J	ug/L		85	50 - 150	
2,4'-DDE	0.0996	0.0930	J	ug/L		93	50 - 150	
2,4'-DDT	0.0996	0.106		ug/L		107	50 - 150	
2,4-Dinitrotoluene	0.0996	0.0966	J	ug/L		97	50 - 150	
2,6-Dinitrotoluene	0.0996	0.109		ug/L		110	50 - 150	
2-Methylnaphthalene	0.0996	0.105		ug/L		105	50 - 150	
4,4'-DDD	0.0996	0.104		ug/L		105	50 - 150	
4,4'-DDE	0.0996	0.0959	J	ug/L		96	50 - 150	
4,4'-DDT	0.0996	0.121		ug/L		121	50 - 150	
Acenaphthene	0.0996	0.0996	J	ug/L		100	50 - 150	
Acenaphthylene	0.0996	0.0904	J	ug/L		91	50 - 150	
Acetochlor	0.0996	0.122		ug/L		122	50 - 150	
Alachlor	0.0498	0.0614		ug/L		123	50 - 150	
alpha-BHC	0.0996	0.106		ug/L		106	50 - 150	
alpha-Chlordane	0.0249	<0.029		ug/L		88	50 - 150	
Anthracene	0.0199	0.0226		ug/L		113	50 - 150	
Atrazine	0.0498	0.0541		ug/L		109	50 - 150	
Benz(a)anthracene	0.0498	0.0522		ug/L		105	50 - 150	
Benzo[a]pyrene	0.0199	0.0197	J	ug/L		99	50 - 150	
Benzo[b]fluoranthene	0.0199	0.0188	J	ug/L		94	50 - 150	
Benzo[g,h,i]perylene	0.0498	0.0506		ug/L		102	50 - 150	
Benzo[k]fluoranthene	0.0199	0.0212		ug/L		107	50 - 150	

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# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-193222/22-A

Matrix: Water

Analysis Batch: 193612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193222

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
beta-BHC	0.0996	0.107		ug/L		108	50 - 150
Bis(2-ethylhexyl) phthalate	0.597	0.618		ug/L		103	50 - 150
Bromacil	0.0996	0.111		ug/L		111	50 - 150
Butachlor	0.0498	0.0608		ug/L		122	50 - 150
Butylbenzylphthalate	0.498	0.659		ug/L		132	50 - 150
Chlorobenzilate	0.0996	0.123		ug/L		124	50 - 150
Chloroneb	0.0996	0.102		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0996	0.124		ug/L		125	50 - 150
Chlorpyrifos	0.0498	0.0405	J	ug/L		81	50 - 150
Chrysene	0.0199	0.0195	J	ug/L		98	50 - 150
delta-BHC	0.0996	0.112		ug/L		112	50 - 150
Di(2-ethylhexyl)adipate	0.597	0.782		ug/L		131	50 - 150
Dibenz(a,h)anthracene	0.0498	0.0461	J	ug/L		93	50 - 150
Diclorvos (DDVP)	0.0498	0.0597		ug/L		120	50 - 150
Dieldrin	0.00996	0.0116		ug/L		117	50 - 150
Diethylphthalate	0.498	0.575		ug/L		116	50 - 150
Dimethylphthalate	0.498	0.551		ug/L		111	50 - 150
Di-n-butyl phthalate	0.498	0.498	J	ug/L		100	49 - 243
Di-n-octyl phthalate	0.0996	0.106		ug/L		106	50 - 150
Endosulfan I (Alpha)	0.0996	0.0745	J	ug/L		75	50 - 150
Endosulfan II (Beta)	0.0996	0.110		ug/L		111	50 - 150
Endosulfan sulfate	0.0996	0.120		ug/L		120	50 - 150
Endrin	0.00996	0.0148		ug/L		149	50 - 150
Endrin aldehyde	0.0996	0.117		ug/L		117	50 - 150
EPTC	0.0996	0.104		ug/L		104	50 - 150
Fluoranthene	0.0996	0.0983	J	ug/L		99	50 - 150
Fluorene	0.0498	0.0539		ug/L		108	50 - 150
gamma-Chlordane	0.0249	0.0214	J	ug/L		86	50 - 150
Heptachlor	0.00996	0.00932	J	ug/L		94	50 - 150
Heptachlor epoxide (isomer B)	0.00996	0.00953	J	ug/L		96	50 - 150
Hexachlorobenzene	0.0498	0.0485	J	ug/L		97	50 - 150
Hexachlorocyclopentadiene	0.0498	<0.038		ug/L		71	50 - 150
Indeno[1,2,3-cd]pyrene	0.0498	0.0521		ug/L		105	50 - 150
Isophorone	0.0996	0.106		ug/L		107	50 - 150
Lindane	0.00996	0.0110		ug/L		110	50 - 150
Malathion	0.0996	0.110		ug/L		111	50 - 150
Methoxychlor	0.0498	0.0573		ug/L		115	50 - 150
Metolachlor	0.0498	0.0620		ug/L		125	50 - 150
Molinate	0.0996	0.107		ug/L		107	50 - 150
Naphthalene	0.0996	0.0975	J	ug/L		98	50 - 150
Parathion	0.0996	0.0913	J	ug/L		92	50 - 150
Pendimethalin (Penoxaline)	0.0996	0.0896	J	ug/L		90	50 - 150
Phenanthrene	0.0398	0.0397	J	ug/L		100	50 - 150
Propachlor	0.0498	0.0547		ug/L		110	50 - 150
Pyrene	0.0498	0.0489	J	ug/L		98	50 - 150
Simazine	0.0498	0.0537		ug/L		108	50 - 150
Terbacil	0.0996	0.138		ug/L		138	50 - 150
Terbuthylazine	0.0996	0.0925	J	ug/L		93	50 - 150
Thiobencarb	0.0996	0.117		ug/L		118	50 - 150

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# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: MRL 380-193222/22-A**

**Matrix: Water**

**Analysis Batch: 193612**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193222**

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
trans-Nonachlor	0.0249	0.0262	J	ug/L		105	50 - 150
Trifluralin	0.0996	0.0975	J	ug/L		98	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-188304-O-1-A MS**

**Matrix: Water**

**Analysis Batch: 193612**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 193222**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
1-Methylnaphthalene	<0.097		1.92	1.89		ug/L		98	70 - 130
2,4'-DDD	<0.097		1.92	2.18		ug/L		113	70 - 130
2,4'-DDE	<0.097		1.92	2.05		ug/L		107	70 - 130
2,4'-DDT	<0.097		1.92	1.92		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.097		1.92	2.13		ug/L		111	70 - 130
2,6-Dinitrotoluene	<0.097		1.92	2.08		ug/L		108	70 - 130
2-Methylnaphthalene	<0.097		1.92	1.92		ug/L		99	70 - 130
4,4'-DDD	<0.097		1.92	2.02		ug/L		105	70 - 130
4,4'-DDE	<0.097		1.92	1.75		ug/L		91	70 - 130
4,4'-DDT	<0.097		1.92	2.05		ug/L		107	70 - 130
Acenaphthene	<0.097		1.92	1.86		ug/L		97	70 - 130
Acenaphthylene	<0.097		1.92	1.97		ug/L		103	70 - 130
Acetochlor	<0.097		1.92	2.22		ug/L		116	70 - 130
Alachlor	<0.048		1.92	2.10		ug/L		109	70 - 130
alpha-BHC	<0.097		1.92	1.92		ug/L		100	70 - 130
alpha-Chlordane	<0.048		1.92	2.05		ug/L		107	70 - 130
Anthracene	<0.019	F1	1.92	0.783	F1	ug/L		41	70 - 130
Atrazine	<0.048		1.92	2.00		ug/L		105	70 - 130
Benz(a)anthracene	<0.048		1.92	1.66		ug/L		87	70 - 130
Benzo[a]pyrene	<0.019		1.92	1.72		ug/L		90	70 - 130
Benzo[b]fluoranthene	<0.019		1.92	2.36		ug/L		123	70 - 130
Benzo[g,h,i]perylene	<0.048		1.92	2.05		ug/L		107	70 - 130
Benzo[k]fluoranthene	<0.019		1.92	1.98		ug/L		103	70 - 130
beta-BHC	<0.097		1.92	1.85		ug/L		97	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.92	1.78		ug/L		93	70 - 130
Bromacil	<0.097		1.92	1.96		ug/L		100	70 - 130
Butachlor	<0.048		1.92	2.27		ug/L		119	70 - 130
Butylbenzylphthalate	<0.48		1.92	2.39		ug/L		124	70 - 130
Chlorobenzilate	<0.097		1.92	2.30		ug/L		120	70 - 130
Chloroneb	<0.097		1.92	1.96		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.92	2.00		ug/L		104	70 - 130
Chlorpyrifos	<0.048		1.92	2.04		ug/L		106	70 - 130
Chrysene	<0.019		1.92	1.92		ug/L		100	70 - 130
delta-BHC	<0.097		1.92	1.91		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.92	2.17		ug/L		113	70 - 130

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-188304-O-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 193612**

**Prep Batch: 193222**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Dibenz(a,h)anthracene	<0.048		1.92	2.03		ug/L		106	70 - 130
Diclorvos (DDVP)	<0.048		1.92	2.00		ug/L		104	70 - 130
Dieldrin	<0.0097		1.92	2.18		ug/L		114	70 - 130
Diethylphthalate	<0.48		1.92	2.29		ug/L		120	70 - 130
Dimethylphthalate	<0.48		1.92	2.09		ug/L		109	70 - 130
Di-n-butyl phthalate	<0.97		3.83	4.38		ug/L		114	70 - 130
Di-n-octyl phthalate	<0.097		1.92	1.85		ug/L		97	70 - 130
Endosulfan I (Alpha)	<0.097		1.92	1.95		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.097		1.92	1.94		ug/L		101	70 - 130
Endosulfan sulfate	<0.097		1.92	2.02		ug/L		105	70 - 130
Endrin	<0.0097		1.92	2.45		ug/L		128	70 - 130
Endrin aldehyde	<0.097		1.92	1.47		ug/L		76	60 - 130
EPTC	<0.097		1.92	2.31		ug/L		121	70 - 130
Fluoranthene	<0.097		1.92	1.92		ug/L		100	70 - 130
Fluorene	<0.048		1.92	1.87		ug/L		98	70 - 130
gamma-Chlordane	<0.048		1.92	1.96		ug/L		102	70 - 130
Heptachlor	<0.0097		1.92	2.09		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.92	1.84		ug/L		96	70 - 130
Hexachlorobenzene	<0.048		1.92	1.85		ug/L		97	70 - 130
Hexachlorocyclopentadiene	<0.048		1.92	2.10		ug/L		109	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.92	2.24		ug/L		117	70 - 130
Isophorone	<0.097		1.92	1.96		ug/L		102	70 - 130
Lindane	<0.0097		1.92	2.20		ug/L		115	70 - 130
Malathion	<0.097		1.92	2.03		ug/L		106	70 - 130
Methoxychlor	<0.048		1.92	2.26		ug/L		118	70 - 130
Metolachlor	<0.048		1.92	2.20		ug/L		115	70 - 130
Molinate	<0.097		1.92	2.11		ug/L		110	70 - 130
Naphthalene	<0.097		1.92	1.92		ug/L		100	70 - 130
Parathion	<0.097		1.92	2.14		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.92	2.18		ug/L		114	70 - 130
Phenanthrene	<0.039		1.92	1.90		ug/L		99	70 - 130
Propachlor	<0.048		1.92	2.31		ug/L		121	70 - 130
Pyrene	<0.048		1.92	1.94		ug/L		101	70 - 130
Simazine	<0.048		1.92	1.88		ug/L		98	70 - 130
Terbacil	<0.097		1.92	2.40		ug/L		125	70 - 130
Terbutylazine	<0.097		1.92	2.25		ug/L		118	70 - 130
Thiobencarb	<0.097		1.92	2.05		ug/L		107	70 - 130
trans-Nonachlor	<0.048		1.92	1.93		ug/L		101	70 - 130
Trifluralin	<0.097		1.92	2.12		ug/L		110	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	107		70 - 130

# QC Sample Results

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-188305-I-1-A DU**

**Matrix: Water**

**Analysis Batch: 193612**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 193222**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.099		<0.097		ug/L		NC	20
2,4'-DDD	<0.099		<0.097		ug/L		NC	20
2,4'-DDE	<0.099		<0.097		ug/L		NC	20
2,4'-DDT	<0.099		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.097		ug/L		NC	20
4,4'-DDD	<0.099		<0.097		ug/L		NC	20
4,4'-DDE	<0.099		<0.097		ug/L		NC	20
4,4'-DDT	<0.099		<0.097		ug/L		NC	20
Acenaphthene	<0.099		<0.097		ug/L		NC	20
Acenaphthylene	<0.099		<0.097		ug/L		NC	20
Acetochlor	<0.099		<0.097		ug/L		NC	20
Alachlor	<0.050		<0.048		ug/L		NC	20
alpha-BHC	<0.099		<0.097		ug/L		NC	20
alpha-Chlordane	<0.050		<0.048		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.050		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.050		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.099		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.58		ug/L		NC	20
Bromacil	<0.099		<0.097		ug/L		NC	20
Butachlor	<0.050		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.48		ug/L		NC	20
Chlorobenzilate	<0.099		<0.097		ug/L		NC	20
Chloroneb	<0.099		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.097		ug/L		NC	20
Chlorpyrifos	<0.050		<0.048		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.099		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.048		ug/L		NC	20
Dieldrin	<0.0099		<0.0097		ug/L		NC	20
Diethylphthalate	<0.50		<0.48		ug/L		NC	20
Dimethylphthalate	<0.50		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.097		ug/L		NC	20
Endrin	<0.0099		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.099		<0.097		ug/L		NC	20
EPTC	<0.099		<0.097		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-188305-I-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 193612**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 193222**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Fluoranthene	<0.099		<0.097		ug/L		NC	20
Fluorene	<0.050		<0.048		ug/L		NC	20
gamma-Chlordane	<0.050		<0.048		ug/L		NC	20
Heptachlor	<0.0099		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.048		ug/L		NC	20
Isophorone	<0.099		<0.097		ug/L		NC	20
Lindane	<0.0099		<0.0097		ug/L		NC	20
Malathion	<0.099		<0.097		ug/L		NC	20
Methoxychlor	<0.050		<0.048		ug/L		NC	20
Metolachlor	<0.050		<0.048		ug/L		NC	20
Molinate	<0.099		<0.097		ug/L		NC	20
Naphthalene	<0.099		<0.097		ug/L		NC	20
Parathion	<0.099		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.097		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.048		ug/L		NC	20
Pyrene	<0.050		<0.048		ug/L		NC	20
Simazine	<0.050		<0.048		ug/L		NC	20
Terbacil	<0.099		<0.097		ug/L		NC	20
Terbutylazine	<0.099		<0.097		ug/L		NC	20
Thiobencarb	<0.099		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.050		<0.048		ug/L		NC	20
Trifluralin	<0.099		<0.097		ug/L		NC	20

  

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	105		70 - 130

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

**Lab Sample ID: MB 570-671320/1-A**  
**Matrix: Water**  
**Analysis Batch: 676240**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	12/17/25 05:54	12/29/25 11:40	1

  

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	71		33 - 139	12/17/25 05:54	12/29/25 11:40	1
2-Fluorobiphenyl (Surr)	81		33 - 126	12/17/25 05:54	12/29/25 11:40	1
2-Fluorophenol (Surr)	58		12 - 120	12/17/25 05:54	12/29/25 11:40	1
Nitrobenzene-d5 (Surr)	83		36 - 120	12/17/25 05:54	12/29/25 11:40	1
Phenol-d6 (Surr)	32		10 - 120	12/17/25 05:54	12/29/25 11:40	1

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: MB 570-671320/1-A**  
**Matrix: Water**  
**Analysis Batch: 676240**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl-d14 (Surr)	82		47 - 131	12/17/25 05:54	12/29/25 11:40	1

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

**Lab Sample ID: MB 570-671320/1-A**  
**Matrix: Water**  
**Analysis Batch: 674350**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthylene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Chrysene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluorene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Naphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Phenanthrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	12/17/25 05:54	12/23/25 12:24	1
2-Fluorobiphenyl (Surr)	78		31 - 120	12/17/25 05:54	12/23/25 12:24	1
2-Fluorophenol (Surr)	52		17 - 120	12/17/25 05:54	12/23/25 12:24	1
Nitrobenzene-d5 (Surr)	76		27 - 120	12/17/25 05:54	12/23/25 12:24	1
Phenol-d6 (Surr)	33		10 - 120	12/17/25 05:54	12/23/25 12:24	1
<i>p</i> -Terphenyl-d14 (Surr)	73		45 - 120	12/17/25 05:54	12/23/25 12:24	1

**Lab Sample ID: LCS 570-671320/2-A**  
**Matrix: Water**  
**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.2		ug/L		66	47 - 120
2-Methylnaphthalene	20.0	12.9		ug/L		65	43 - 120
Acenaphthene	20.0	15.5		ug/L		77	60 - 132
Acenaphthylene	20.0	14.4		ug/L		72	54 - 126
Anthracene	20.0	16.0		ug/L		80	43 - 120
Benzo[a]anthracene	20.0	15.5		ug/L		78	42 - 133
Benzo[a]pyrene	20.0	16.7		ug/L		83	32 - 148

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: LCS 570-671320/2-A**

**Matrix: Water**

**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 671320**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzo[b]fluoranthene	20.0	16.1		ug/L		80	42 - 140	
Benzo[g,h,i]perylene	20.0	15.5		ug/L		78	1 - 195	
Benzo[k]fluoranthene	20.0	15.9		ug/L		79	25 - 146	
Chrysene	20.0	15.7		ug/L		78	44 - 140	
Dibenz(a,h)anthracene	20.0	16.3		ug/L		82	1 - 200	
Fluoranthene	20.0	16.3		ug/L		81	43 - 121	
Fluorene	20.0	15.4		ug/L		77	70 - 120	
Indeno[1,2,3-cd]pyrene	20.0	15.5		ug/L		77	1 - 151	
Naphthalene	20.0	12.6		ug/L		63	36 - 120	
Phenanthrene	20.0	15.7		ug/L		79	65 - 120	
Pyrene	20.0	16.2		ug/L		81	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

**Lab Sample ID: LCSD 570-671320/3-A**

**Matrix: Water**

**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 671320**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
1-Methylnaphthalene	20.0	14.8		ug/L		74	47 - 120	11	20	
2-Methylnaphthalene	20.0	14.6		ug/L		73	43 - 120	12	20	
Acenaphthene	20.0	17.8		ug/L		89	60 - 132	14	29	
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126	17	45	
Anthracene	20.0	18.3		ug/L		91	43 - 120	14	40	
Benzo[a]anthracene	20.0	17.3		ug/L		87	42 - 133	11	32	
Benzo[a]pyrene	20.0	18.9		ug/L		94	32 - 148	12	43	
Benzo[b]fluoranthene	20.0	18.4		ug/L		92	42 - 140	14	43	
Benzo[g,h,i]perylene	20.0	17.4		ug/L		87	1 - 195	11	61	
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146	14	38	
Chrysene	20.0	17.5		ug/L		88	44 - 140	11	53	
Dibenz(a,h)anthracene	20.0	17.7		ug/L		89	1 - 200	8	75	
Fluoranthene	20.0	18.7		ug/L		93	43 - 121	14	40	
Fluorene	20.0	17.5		ug/L		87	70 - 120	12	23	
Indeno[1,2,3-cd]pyrene	20.0	17.6		ug/L		88	1 - 151	13	60	
Naphthalene	20.0	14.2		ug/L		71	36 - 120	12	39	
Phenanthrene	20.0	18.0		ug/L		90	65 - 120	14	24	
Pyrene	20.0	18.1		ug/L		91	70 - 120	11	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	63		17 - 120

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID:** LCSD 570-671320/3-A  
**Matrix:** Water  
**Analysis Batch:** 674350

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 671320

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

**Lab Sample ID:** MB 570-675935/6  
**Matrix:** Water  
**Analysis Batch:** 675935

**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			12/28/25 12:55	1

  

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		38 - 134		12/28/25 12:55	1

**Lab Sample ID:** LCS 570-675935/4  
**Matrix:** Water  
**Analysis Batch:** 675935

**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	389		ug/L		97	78 - 120

  

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		38 - 134

**Lab Sample ID:** LCSD 570-675935/5  
**Matrix:** Water  
**Analysis Batch:** 675935

**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	396		ug/L		99	78 - 120	2	10

  

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		38 - 134

**Lab Sample ID:** MRL 570-675935/3  
**Matrix:** Water  
**Analysis Batch:** 675935

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	11.9		ug/L		119	50 - 150

  

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

# QC Sample Results

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-189454-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	398		ug/L		99	68 - 122
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	101		38 - 134						

**Lab Sample ID: 380-189454-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	380		ug/L		95	68 - 122	5	18
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	101		38 - 134								

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

**Lab Sample ID: MB 570-671434/1-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
C8-C18	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	109		60 - 130			12/17/25 09:06	12/18/25 07:05	1

**Lab Sample ID: LCS 570-671434/2-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1370		ug/L		86	56 - 127
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	105		60 - 130				

**Lab Sample ID: LCSD 570-671434/3-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1250		ug/L		78	56 - 127	10	23

# QC Sample Results

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

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

**Lab Sample ID: LCSD 570-671434/3-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

	LCSD %Recovery	LCSD Qualifier	Limits
<i>Surrogate</i>			
<i>n-Octacosane (Surr)</i>	99		60 - 130

**Lab Sample ID: MRL 570-671434/4-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0218	J	mg/L		109	50 - 150
<i>Surrogate</i>							
<i>n-Octacosane (Surr)</i>		111					60 - 130

**Lab Sample ID: 380-188308-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		2080	1490		ug/L		72	70 - 130
<i>Surrogate</i>									
<i>n-Octacosane (Surr)</i>				129					60 - 130

**Lab Sample ID: 380-188308-B-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		2060	1620		ug/L		79	70 - 130	8	20
<i>Surrogate</i>											
<i>n-Octacosane (Surr)</i>				121					60 - 130		

# QC Association Summary

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

## GC/MS Semi VOA

### Prep Batch: 193222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	525.2	
MB 380-193222/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-193222/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-193222/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-193222/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-188304-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-188305-I-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 193612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	525.2	193222
MB 380-193222/21-A	Method Blank	Total/NA	Water	525.2	193222
LCS 380-193222/23-A	Lab Control Sample	Total/NA	Water	525.2	193222
LCSD 380-193222/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	193222
MRL 380-193222/22-A	Lab Control Sample	Total/NA	Water	525.2	193222
380-188304-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	193222
380-188305-I-1-A DU	Duplicate	Total/NA	Water	525.2	193222

### Prep Batch: 671320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	625.1	
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 674350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1 SIM	671320
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	671320
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	671320

### Analysis Batch: 675313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	625.1 SIM	671320

### Analysis Batch: 676240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	625.1	671320
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	671320

## GC VOA

### Analysis Batch: 675935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	8015B GRO LL	
380-188314-2	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	8015B GRO LL	
MB 570-675935/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-675935/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-675935/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-675935/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-189454-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-188314-1  
 SDG: Weekly: Aiea Wells Pumps 1&2 P2

## GC VOA (Continued)

### Analysis Batch: 675935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189454-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 671434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1 - RA	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	3510C	
MB 570-671434/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 671882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671434/1-A	Method Blank	Total/NA	Water	8015B	671434
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	8015B	671434
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	671434

### Analysis Batch: 679225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188314-1 - RA	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	8015B	671434
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	8015B	671434
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	671434
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	671434

## Lab Chronicle

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-188314-1**

**Date Collected: 12/15/25 11:43**

**Matrix: Drinking Water**

**Date Received: 12/17/25 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			193222	OTM3	EA POM	12/18/25 08:16
Total/NA	Analysis	525.2		1	193612	Q8LA	EA POM	12/19/25 15:27
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1		1	676240	PQS1	EET CAL 4	12/29/25 17:56
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1 SIM		1	675313	PQS1	EET CAL 4	12/26/25 14:40
Total/NA	Analysis	8015B GRO LL		1	675935	AJG4	EET CAL 4	12/28/25 16:26
Total/NA	Prep	3510C	RA		671434	TVD6	EET CAL 4	12/18/25 08:24
Total/NA	Analysis	8015B	RA	1	679225	H6FE	EET CAL 4	01/07/26 01:06

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-188314-2**

**Date Collected: 12/15/25 11:43**

**Matrix: Water**

**Date Received: 12/17/25 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	675935	AJG4	EET CAL 4	12/28/25 14:14

**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: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

## 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 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	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking 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	State	3082	07-31-26

# Accreditation/Certification Summary

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

## 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
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

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# Method Summary

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

Job ID: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

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: 380-188314-1  
SDG: Weekly: Aiea Wells Pumps 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-188314-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	12/15/25 11:43	12/17/25 10:30	HI0000331
380-188314-2	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	12/15/25 11:43	12/17/25 10:30	

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**Eurofins Eaton Analytical Pomona**

941 Corporate Center Drive  
 Pomona, CA 91768-2642  
 Phone: 626-366-1100

**Chain of Custody Record**



eurofins

Loc: 380  
**188314**

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-287664.1							
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1							
Company: Eurofins Environment Testing Southwest L			Accreditations Required (See note): State - Hawaii		Job #: 380-188314-1							
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A Project Name: RED-HILL Site: Honolulu BWS Sites		Due Date Requested: 1/5/2026 TAT Requested (days): N/A PO #: N/A WO #: N/A Project #: 38001111 SSOW#: N/A	<b>Analysis Requested</b>			Preservation Codes: Other: N/A						
<b>Sample Identification - Client ID (Lab ID)</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, G=gas/soil, BT=Tissue, ANAL)	Field Filtered Sample (Yes or No)	Perform MMSD (Yes or No)	625_1_SIM625_Prep(MOD) Extended PAM List	8015B_DRO_LL_CS0510C_LLHNL Ranges: C10-C24/C24-C36/C37-C18	8015B_GRO_LLJ5030C(MOD) GRO	Total Number of Containers	Special Instructions/Note:
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-188314-1)		12/15/25	11:43 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-188314-2)		12/15/25	11:43 Hawaiian	G	Water					X	2	MRLs are needed.
<p>380-188314 Chain of Custody</p>												
<p>Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte &amp; 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.</p>												
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2						
Empty Kit Relinquished by:						Special Instructions/QC Requirements:						
Date:			Time:			Method of Shipment:						
Relinquished by: <i>Mark Moratin</i>		Date/Time: <i>12/17/25 1530</i>		Company: <i>EEAP</i>		Received by: <i>H</i>		Date/Time: <i>12-17-25 1530</i>		Company: <i>WP</i>		
Relinquished by: <i>LT</i>		Date/Time: <i>12-17-25 1630</i>		Company: <i>WP</i>		Received by: <i>[Signature]</i>		Date/Time: <i>12-17-25 1630</i>		Company: <i>[Signature]</i>		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>0.7/0.8 IR-4</i>								

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188314-1

SDG Number: Weekly: Aiea Wells Pumps 1&2 P2

**Login Number: 188314**

**List Number: 1**

**Creator: Ngo, Theodore**

**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").	True	
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: 380-188314-1  
SDG Number: Weekly: Aiea Wells Pumps 1&2 P2

**Login Number: 188314**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 12/17/25 06:46 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	