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# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Gulch Wells Pump 2

## JOB NUMBER

380-198985-1

# 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: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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 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: 380-198985-1

**Job ID: 380-198985-1**

**Eurofins Pomona**

## Job Narrative 380-198985-1

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 2/19/2026 9:29 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 3.6°C.

### GC/MS Semi VOA

Method 625.1 SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-698456 and analytical batch 570-701134 were outside control limits: (380-198981-C-1-A MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 625.1 SIM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-698456 and analytical batch 570-701134 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 525.2: Monitoring IS (Terphenyl-d14) recovery for the following sample in preparation batch 380-208072 and analytical batch 380-208615 was above acceptance criteria: AIEA GULCH WELLS PUMP 2 (380-198985-1). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

### 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: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-1**

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-1**

Date Collected: 02/17/26 11:05

Matrix: Drinking Water

Date Received: 02/19/26 09:29

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
2,4'-DDD	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
2,4'-DDE	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
2,4'-DDT	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
2-Methylnaphthalene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
4,4'-DDD	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
4,4'-DDE	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
4,4'-DDT	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Acenaphthene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Acenaphthylene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Acetochlor	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Alachlor	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
alpha-BHC	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
alpha-Chlordane	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Anthracene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 12:53	1
Atrazine	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Benz(a)anthracene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 12:53	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 12:53	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 12:53	1
beta-BHC	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Bis(2-ethylhexyl) phthalate	<0.59	*+	0.59	ug/L		02/24/26 14:32	02/25/26 12:53	1
Bromacil	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Butachlor	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Butylbenzylphthalate	<0.50		0.50	ug/L		02/24/26 14:32	02/25/26 12:53	1
Chlorobenzilate	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Chloroneb	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Chlorpyrifos	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Chrysene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 12:53	1
delta-BHC	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/24/26 14:32	02/25/26 12:53	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Dieldrin	<0.0099		0.0099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Diethylphthalate	<0.50		0.50	ug/L		02/24/26 14:32	02/25/26 12:53	1
Dimethylphthalate	<0.50		0.50	ug/L		02/24/26 14:32	02/25/26 12:53	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		02/24/26 14:32	02/25/26 12:53	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Endosulfan sulfate	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Endrin	<0.0099		0.0099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Endrin aldehyde	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
EPTC	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Fluoranthene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1

# Client Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-1**

Date Collected: 02/17/26 11:05

Matrix: Drinking Water

Date Received: 02/19/26 09:29

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
gamma-Chlordane	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Heptachlor	<0.0099		0.0099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Hexachlorobenzene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Isophorone	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Lindane	<0.0099		0.0099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Malathion	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Methoxychlor	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Metolachlor	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Molinate	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Naphthalene	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Parathion	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Phenanthrene	<0.040		0.040	ug/L		02/24/26 14:32	02/25/26 12:53	1
Propachlor	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Pyrene	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Simazine	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Terbacil	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Terbutylazine	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Thiobencarb	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/24/26 14:32	02/25/26 12:53	1
trans-Nonachlor	<0.050		0.050	ug/L		02/24/26 14:32	02/25/26 12:53	1
Trifluralin	<0.099		0.099	ug/L		02/24/26 14:32	02/25/26 12:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/24/26 14:32	02/25/26 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	02/24/26 14:32	02/25/26 12:53	1
Perylene-d12	103		70 - 130	02/24/26 14:32	02/25/26 12:53	1
Triphenylphosphate	112		70 - 130	02/24/26 14:32	02/25/26 12:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
2-Methylnaphthalene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Acenaphthene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Acenaphthylene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Anthracene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Benzo[a]anthracene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Benzo[a]pyrene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Chrysene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Fluoranthene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1

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# Client Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-1**

Date Collected: 02/17/26 11:05

Matrix: Drinking Water

Date Received: 02/19/26 09:29

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Naphthalene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Phenanthrene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1
Pyrene	<0.20		0.20	ug/L		02/20/26 07:00	02/25/26 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		28 - 127	02/20/26 07:00	02/25/26 21:29	1
2-Fluorobiphenyl (Surr)	68		31 - 120	02/20/26 07:00	02/25/26 21:29	1
2-Fluorophenol (Surr)	45		17 - 120	02/20/26 07:00	02/25/26 21:29	1
Nitrobenzene-d5 (Surr)	70		27 - 120	02/20/26 07:00	02/25/26 21:29	1
Phenol-d6 (Surr)	28		10 - 120	02/20/26 07:00	02/25/26 21:29	1
p-Terphenyl-d14 (Surr)	64		45 - 120	02/20/26 07:00	02/25/26 21:29	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	02/20/26 07:00	03/02/26 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		33 - 139	02/20/26 07:00	03/02/26 12:17	1
2-Fluorobiphenyl (Surr)	72		33 - 126	02/20/26 07:00	03/02/26 12:17	1
2-Fluorophenol (Surr)	47		12 - 120	02/20/26 07:00	03/02/26 12:17	1
Nitrobenzene-d5 (Surr)	82		36 - 120	02/20/26 07:00	03/02/26 12:17	1
Phenol-d6 (Surr)	33		10 - 120	02/20/26 07:00	03/02/26 12:17	1
p-Terphenyl-d14 (Surr)	73		47 - 131	02/20/26 07:00	03/02/26 12:17	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			02/21/26 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		38 - 134		02/21/26 01:39	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)	<27		27	ug/L		02/23/26 08:51	02/24/26 17:23	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		02/23/26 08:51	02/24/26 17:23	1
C8-C18	<27		27	ug/L		02/23/26 08:51	02/24/26 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130	02/23/26 08:51	02/24/26 17:23	1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-2**

Date Collected: 02/17/26 11:05

Matrix: Water

Date Received: 02/19/26 09:29

**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			02/21/26 00:07	1

# Client Sample Results

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-2**

Date Collected: 02/17/26 11:05

Matrix: Water

Date Received: 02/19/26 09:29

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	90		38 - 134		02/21/26 00:07	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: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-1**

## 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	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	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	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Matrix: Drinking 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)
380-198985-1	AIEA GULCH WELLS PUMP 2	98	103	112

**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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-198936-AA-1-A MS	Matrix Spike	98	108	117
380-198975-I-1-A DU	Duplicate	99	105	121
LCS 380-208072/23-B	Lab Control Sample	98	107	111
MB 380-208072/21-B	Method Blank	97	98	108
MRL 380-208072/22-B	Lab Control Sample	98	97	109

**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

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)
380-198985-1	AIEA GULCH WELLS PUMP 2	78	72	47	82	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: 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)
MB 570-698456/1-A	Method Blank	92	83	58	98	39	87

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)  
FBP = 2-Fluorobiphenyl (Surr)  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)

# Surrogate Summary

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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)
380-198985-1	AIEA GULCH WELLS PUMP 2	73	68	45	70	28	64

**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)
380-198981-C-1-A MS	Matrix Spike	75	67	58	58	38	74
380-198981-C-1-B MSD	Matrix Spike Duplicate	79	70	58	77	36	71
LCS 570-698456/2-A	Lab Control Sample	100	80	71	87	44	83
LCSd 570-698456/3-A	Lab Control Sample Dup	97	87	66	85	39	86
MB 570-698456/1-A	Method Blank	102	87	61	92	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: 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)
380-198985-1	AIEA GULCH WELLS PUMP 2	102

**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)
380-198981-A-1 MS	Matrix Spike	89
380-198981-A-1 MSD	Matrix Spike Duplicate	94
380-198985-2	TB: AIEA GULCH WELLS PUMP 2	90

# Surrogate Summary

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

## 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)
LCS 570-698930/3	Lab Control Sample	84
LCSD 570-698930/4	Lab Control Sample Dup	92
MB 570-698930/5	Method Blank	92
MRL 570-698930/6	Lab Control Sample	89

#### 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)
380-198985-1 - RA	AIEA GULCH WELLS PUMP 2	112

#### 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)
380-198981-B-1-A MS	Matrix Spike	102
380-198981-B-1-B MSD	Matrix Spike Duplicate	108
LCS 570-699749/2-A	Lab Control Sample	110
LCSD 570-699749/3-A	Lab Control Sample Dup	114
MB 570-699749/1-A	Method Blank	94
MRL 570-699749/4-A	Lab Control Sample	108

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 380-208072/21-B**  
**Matrix: Water**  
**Analysis Batch: 208615**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 208072**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
2,4'-DDD	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
2,4'-DDE	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
2,4'-DDT	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
4,4'-DDD	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
4,4'-DDE	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
4,4'-DDT	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Acenaphthene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Acenaphthylene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Acetochlor	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Alachlor	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
alpha-BHC	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
alpha-Chlordane	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Anthracene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 09:51	1
Atrazine	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 09:51	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 09:51	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 09:51	1
beta-BHC	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/24/26 14:32	02/25/26 09:51	1
Bromacil	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Butachlor	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/24/26 14:32	02/25/26 09:51	1
Chlorobenzilate	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Chloroneb	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Chlorpyrifos	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Chrysene	<0.020		0.020	ug/L		02/24/26 14:32	02/25/26 09:51	1
delta-BHC	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/24/26 14:32	02/25/26 09:51	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Dieldrin	<0.0098		0.0098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Diethylphthalate	<0.49		0.49	ug/L		02/24/26 14:32	02/25/26 09:51	1
Dimethylphthalate	<0.49		0.49	ug/L		02/24/26 14:32	02/25/26 09:51	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/24/26 14:32	02/25/26 09:51	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Endrin	<0.0098		0.0098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Endrin aldehyde	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
EPTC	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 380-208072/21-B**  
**Matrix: Water**  
**Analysis Batch: 208615**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 208072**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Fluorene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
gamma-Chlordane	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Heptachlor	<0.0098		0.0098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Isophorone	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Lindane	<0.0098		0.0098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Malathion	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Methoxychlor	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Metolachlor	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Molinate	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Naphthalene	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Parathion	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Phenanthrene	<0.039		0.039	ug/L		02/24/26 14:32	02/25/26 09:51	1
Propachlor	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Pyrene	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Simazine	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Terbacil	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Terbutylazine	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Thiobencarb	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/24/26 14:32	02/25/26 09:51	1
trans-Nonachlor	<0.049		0.049	ug/L		02/24/26 14:32	02/25/26 09:51	1
Trifluralin	<0.098		0.098	ug/L		02/24/26 14:32	02/25/26 09:51	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	5.11	T J N	ug/L		3.18	1120-21-4	02/24/26 14:32	02/25/26 09:51	1
Phenol, m-tert-butyl-	0.574	T J N	ug/L		3.92	585-34-2	02/24/26 14:32	02/25/26 09:51	1
9-Octadecenamamide, (Z)-	3.40	T J N	ug/L		7.98	301-02-0	02/24/26 14:32	02/25/26 09:51	1
13-Docosenamamide, (Z)-	0.943	T J N	ug/L		10.51	112-84-5	02/24/26 14:32	02/25/26 09:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	97		70 - 130	02/24/26 14:32	02/25/26 09:51	1
Perylene-d12	98		70 - 130	02/24/26 14:32	02/25/26 09:51	1
Triphenylphosphate	108		70 - 130	02/24/26 14:32	02/25/26 09:51	1

**Lab Sample ID: LCS 380-208072/23-B**  
**Matrix: Water**  
**Analysis Batch: 208615**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 208072**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.97	2.02		ug/L		103	70 - 130
2,4'-DDD	1.97	2.33		ug/L		118	70 - 130
2,4'-DDE	1.97	2.44		ug/L		124	70 - 130
2,4'-DDT	1.97	2.37		ug/L		120	70 - 130

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: LCS 380-208072/23-B

Matrix: Water

Analysis Batch: 208615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208072

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4-Dinitrotoluene	1.97	2.19		ug/L		111	70 - 130
2,6-Dinitrotoluene	1.97	2.07		ug/L		105	70 - 130
2-Methylnaphthalene	1.97	2.03		ug/L		103	70 - 130
4,4'-DDD	1.97	2.55		ug/L		129	70 - 130
4,4'-DDE	1.97	2.20		ug/L		112	70 - 130
4,4'-DDT	1.97	2.31		ug/L		117	70 - 130
Acenaphthene	1.97	2.03		ug/L		103	70 - 130
Acenaphthylene	1.97	2.10		ug/L		107	70 - 130
Acetochlor	1.97	2.36		ug/L		119	70 - 130
Alachlor	1.97	2.32		ug/L		118	70 - 130
alpha-BHC	1.97	2.10		ug/L		106	70 - 130
alpha-Chlordane	1.97	2.34		ug/L		119	70 - 130
Anthracene	1.97	1.87		ug/L		95	70 - 130
Atrazine	1.97	2.42		ug/L		123	70 - 130
Benz(a)anthracene	1.97	2.08		ug/L		106	70 - 130
Benzo[a]pyrene	1.97	2.38		ug/L		121	70 - 130
Benzo[b]fluoranthene	1.97	2.30		ug/L		116	70 - 130
Benzo[g,h,i]perylene	1.97	2.46		ug/L		125	70 - 130
Benzo[k]fluoranthene	1.97	2.42		ug/L		123	70 - 130
beta-BHC	1.97	2.15		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.69	*+	ug/L		136	70 - 130
Bromacil	1.97	2.15		ug/L		109	70 - 130
Butachlor	1.97	2.43		ug/L		123	70 - 130
Butylbenzylphthalate	1.97	2.43		ug/L		123	70 - 130
Chlorobenzilate	1.97	2.52		ug/L		128	70 - 130
Chloroneb	1.97	2.18		ug/L		111	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.25		ug/L		114	70 - 130
Chlorpyrifos	1.97	2.28		ug/L		116	70 - 130
Chrysene	1.97	2.08		ug/L		105	70 - 130
delta-BHC	1.97	2.12		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.48		ug/L		126	70 - 130
Dibenz(a,h)anthracene	1.97	2.35		ug/L		119	70 - 130
Diclorvos (DDVP)	1.97	2.21		ug/L		112	70 - 130
Dieldrin	1.97	2.40		ug/L		122	70 - 130
Diethylphthalate	1.97	2.30		ug/L		117	70 - 130
Dimethylphthalate	1.97	2.15		ug/L		109	70 - 130
Di-n-butyl phthalate	3.94	4.85		ug/L		123	70 - 130
Di-n-octyl phthalate	1.97	2.45		ug/L		124	70 - 130
Endosulfan I (Alpha)	1.97	2.18		ug/L		111	70 - 130
Endosulfan II (Beta)	1.97	2.07		ug/L		105	70 - 130
Endosulfan sulfate	1.97	2.51		ug/L		127	70 - 130
Endrin	1.97	2.55		ug/L		129	70 - 130
Endrin aldehyde	1.97	2.22		ug/L		113	60 - 130
EPTC	1.97	2.15		ug/L		109	70 - 130
Fluoranthene	1.97	2.17		ug/L		110	70 - 130
Fluorene	1.97	2.00		ug/L		101	70 - 130
gamma-Chlordane	1.97	2.31		ug/L		117	70 - 130
Heptachlor	1.97	2.30		ug/L		116	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.16		ug/L		109	70 - 130

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# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: LCS 380-208072/23-B

Matrix: Water

Analysis Batch: 208615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208072

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hexachlorobenzene	1.97	2.05		ug/L		104	70 - 130
Hexachlorocyclopentadiene	1.97	2.25		ug/L		114	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.34		ug/L		118	70 - 130
Isophorone	1.97	2.02		ug/L		102	70 - 130
Lindane	1.97	2.30		ug/L		117	70 - 130
Malathion	1.97	2.42		ug/L		123	70 - 130
Methoxychlor	1.97	2.31		ug/L		117	70 - 130
Metolachlor	1.97	2.26		ug/L		115	70 - 130
Molinate	1.97	2.20		ug/L		111	70 - 130
Naphthalene	1.97	2.00		ug/L		101	70 - 130
Parathion	1.97	2.43		ug/L		123	70 - 130
Pendimethalin (Penoxaline)	1.97	2.47		ug/L		125	70 - 130
Phenanthrene	1.97	2.05		ug/L		104	70 - 130
Propachlor	1.97	2.27		ug/L		115	70 - 130
Pyrene	1.97	2.19		ug/L		111	70 - 130
Simazine	1.97	2.21		ug/L		112	70 - 130
Terbacil	1.97	2.21		ug/L		112	70 - 130
Terbutylazine	1.97	2.44		ug/L		124	70 - 130
Thiobencarb	1.97	2.35		ug/L		119	70 - 130
trans-Nonachlor	1.97	2.38		ug/L		121	70 - 130
Trifluralin	1.97	2.28		ug/L		116	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	107		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: MRL 380-208072/22-B

Matrix: Water

Analysis Batch: 208615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208072

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	0.0984	0.0995		ug/L		101	50 - 150
2,4'-DDD	0.0984	0.0945	J	ug/L		96	50 - 150
2,4'-DDE	0.0984	0.0956	J	ug/L		97	50 - 150
2,4'-DDT	0.0984	0.110		ug/L		112	50 - 150
2,4-Dinitrotoluene	0.0984	0.0952	J	ug/L		97	50 - 150
2,6-Dinitrotoluene	0.0984	0.104		ug/L		106	50 - 150
2-Methylnaphthalene	0.0984	0.0952	J	ug/L		97	50 - 150
4,4'-DDD	0.0984	0.100		ug/L		102	50 - 150
4,4'-DDE	0.0984	0.0994		ug/L		101	50 - 150
4,4'-DDT	0.0984	0.118		ug/L		120	50 - 150
Acenaphthene	0.0984	0.0834	J	ug/L		85	50 - 150
Acenaphthylene	0.0984	0.0957	J	ug/L		97	50 - 150
Acetochlor	0.0984	0.109		ug/L		111	50 - 150
Alachlor	0.0492	0.0595		ug/L		121	50 - 150
alpha-BHC	0.0984	0.104		ug/L		106	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		112	50 - 150

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# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: MRL 380-208072/22-B

Matrix: Water

Analysis Batch: 208615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208072

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Anthracene	0.0197	0.0206		ug/L		105	50 - 150
Atrazine	0.0492	0.0493		ug/L		100	50 - 150
Benz(a)anthracene	0.0492	0.0528		ug/L		107	50 - 150
Benzo[a]pyrene	0.0197	0.0221		ug/L		112	50 - 150
Benzo[b]fluoranthene	0.0197	0.0245		ug/L		125	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0458	J	ug/L		93	50 - 150
Benzo[k]fluoranthene	0.0197	0.0224		ug/L		114	50 - 150
beta-BHC	0.0984	0.110		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.727		ug/L		123	50 - 150
Bromacil	0.0984	0.128		ug/L		130	50 - 150
Butachlor	0.0492	0.0601		ug/L		122	50 - 150
Butylbenzylphthalate	0.492	0.560		ug/L		114	50 - 150
Chlorobenzilate	0.0984	0.103		ug/L		105	50 - 150
Chloroneb	0.0984	0.0863	J	ug/L		88	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0984	0.0988		ug/L		100	50 - 150
Chlorpyrifos	0.0492	0.0503		ug/L		102	50 - 150
Chrysene	0.0197	0.0205		ug/L		104	50 - 150
delta-BHC	0.0984	0.107		ug/L		108	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.668		ug/L		113	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0469	J	ug/L		95	50 - 150
Diclorvos (DDVP)	0.0492	0.0573		ug/L		116	50 - 150
Dieldrin	0.00984	0.0123		ug/L		125	50 - 150
Diethylphthalate	0.492	0.526		ug/L		107	50 - 150
Dimethylphthalate	0.492	0.482	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.492	0.527	J	ug/L		107	49 - 243
Di-n-octyl phthalate	0.0984	0.108		ug/L		110	50 - 150
Endosulfan I (Alpha)	0.0984	0.0881	J	ug/L		90	50 - 150
Endosulfan II (Beta)	0.0984	0.123		ug/L		125	50 - 150
Endosulfan sulfate	0.0984	0.108		ug/L		110	50 - 150
Endrin	0.00984	0.0106		ug/L		108	50 - 150
Endrin aldehyde	0.0984	0.108		ug/L		110	50 - 150
EPTC	0.0984	0.0984		ug/L		100	50 - 150
Fluoranthene	0.0984	0.0938	J	ug/L		95	50 - 150
Fluorene	0.0492	0.0507		ug/L		103	50 - 150
gamma-Chlordane	0.0246	0.0253	J	ug/L		103	50 - 150
Heptachlor	0.00984	0.0113		ug/L		114	50 - 150
Heptachlor epoxide (isomer B)	0.00984	0.0102		ug/L		104	50 - 150
Hexachlorobenzene	0.0492	0.0473	J	ug/L		96	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0576		ug/L		117	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0507		ug/L		103	50 - 150
Isophorone	0.0984	0.110		ug/L		112	50 - 150
Lindane	0.00984	0.0111		ug/L		113	50 - 150
Malathion	0.0984	0.101		ug/L		102	50 - 150
Methoxychlor	0.0492	0.0530		ug/L		108	50 - 150
Metolachlor	0.0492	0.0560		ug/L		114	50 - 150
Molinate	0.0984	0.0993		ug/L		101	50 - 150
Naphthalene	0.0984	0.0981		ug/L		100	50 - 150
Parathion	0.0984	0.0999		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0984	0.108		ug/L		109	50 - 150

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# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MRL 380-208072/22-B**

**Matrix: Water**

**Analysis Batch: 208615**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 208072**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0394	0.0351	J	ug/L		89	50 - 150
Propachlor	0.0492	0.0539		ug/L		109	50 - 150
Pyrene	0.0492	0.0517		ug/L		105	50 - 150
Simazine	0.0492	0.0465	J	ug/L		95	50 - 150
Terbacil	0.0984	0.110		ug/L		112	50 - 150
Terbutylazine	0.0984	0.0965	J	ug/L		98	50 - 150
Thiobencarb	0.0984	0.103		ug/L		104	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		102	50 - 150
Trifluralin	0.0984	0.110		ug/L		112	50 - 150

Surrogate	MRL		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	109		70 - 130

**Lab Sample ID: 380-198936-AA-1-A MS**

**Matrix: Water**

**Analysis Batch: 208615**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 208072**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
1-Methylnaphthalene	<0.098		1.96	2.01		ug/L		103	70 - 130
2,4'-DDD	<0.098		1.96	1.55		ug/L		79	70 - 130
2,4'-DDE	<0.098		1.96	1.41		ug/L		72	70 - 130
2,4'-DDT	<0.098		1.96	1.69		ug/L		86	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	2.18		ug/L		111	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.16		ug/L		110	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.96	1.82		ug/L		93	70 - 130
4,4'-DDE	<0.098		1.96	1.46		ug/L		75	70 - 130
4,4'-DDT	<0.098		1.96	1.94		ug/L		99	70 - 130
Acenaphthene	<0.098		1.96	2.04		ug/L		104	70 - 130
Acenaphthylene	<0.098		1.96	2.11		ug/L		108	70 - 130
Acetochlor	<0.098		1.96	1.98		ug/L		101	70 - 130
Alachlor	<0.049		1.96	1.87		ug/L		95	70 - 130
alpha-BHC	<0.098		1.96	2.04		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.96	1.70		ug/L		87	70 - 130
Anthracene	<0.020		1.96	1.78		ug/L		91	70 - 130
Atrazine	<0.049		1.96	2.48		ug/L		126	70 - 130
Benz(a)anthracene	<0.049		1.96	2.25		ug/L		115	70 - 130
Benzo[a]pyrene	<0.020	F1	1.96	2.57	F1	ug/L		131	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.43		ug/L		124	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.49		ug/L		127	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.46		ug/L		125	70 - 130
beta-BHC	<0.098		1.96	2.07		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59	*+	1.96	2.26		ug/L		116	70 - 130
Bromacil	1.5		1.96	3.27		ug/L		91	70 - 130
Butachlor	<0.049	F1	1.96	1.35	F1	ug/L		69	70 - 130
Butylbenzylphthalate	<0.49		1.96	1.63		ug/L		83	70 - 130

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# QC Sample Results

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-198936-AA-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 208615**

**Prep Batch: 208072**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobenzilate	<0.098	F1	1.96	1.24	F1	ug/L		63	70 - 130
Chloroneb	<0.098		1.96	2.21		ug/L		113	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.03		ug/L		104	70 - 130
Chlorpyrifos	<0.049	F1	1.96	1.35	F1	ug/L		69	70 - 130
Chrysene	<0.020		1.96	2.23		ug/L		114	70 - 130
delta-BHC	<0.098		1.96	1.99		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	1.66		ug/L		85	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.36		ug/L		120	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.20		ug/L		112	70 - 130
Dieldrin	<0.0098	F1	1.96	0.909	F1	ug/L		46	70 - 130
Diethylphthalate	<0.49		1.96	2.31		ug/L		118	70 - 130
Dimethylphthalate	<0.49		1.96	2.15		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.98		3.92	5.12		ug/L		110	70 - 130
Di-n-octyl phthalate	<0.098		1.96	2.17		ug/L		111	70 - 130
Endosulfan I (Alpha)	<0.098	F1	1.96	0.428	F1	ug/L		22	70 - 130
Endosulfan II (Beta)	<0.098	F1	1.96	1.26	F1	ug/L		64	70 - 130
Endosulfan sulfate	<0.098		1.96	2.07		ug/L		106	70 - 130
Endrin	<0.0098	F1	1.96	1.19	F1	ug/L		61	70 - 130
Endrin aldehyde	<0.098		1.96	2.46		ug/L		126	60 - 130
EPTC	<0.098		1.96	2.16		ug/L		110	70 - 130
Fluoranthene	<0.098		1.96	1.43		ug/L		73	70 - 130
Fluorene	<0.049		1.96	2.06		ug/L		105	70 - 130
gamma-Chlordane	<0.049		1.96	1.73		ug/L		88	70 - 130
Heptachlor	<0.0098		1.96	2.13		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	1.86		ug/L		95	70 - 130
Hexachlorobenzene	<0.049		1.96	2.07		ug/L		106	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.19		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.33		ug/L		119	70 - 130
Isophorone	<0.098		1.96	1.98		ug/L		101	70 - 130
Lindane	<0.0098		1.96	2.18		ug/L		111	70 - 130
Malathion	<0.098		1.96	1.86		ug/L		95	70 - 130
Methoxychlor	<0.049		1.96	2.43		ug/L		124	70 - 130
Metolachlor	<0.049		1.96	1.72		ug/L		88	70 - 130
Molinate	<0.098		1.96	2.23		ug/L		114	70 - 130
Naphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
Parathion	<0.098	F1	1.96	2.58	F1	ug/L		132	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	1.88		ug/L		96	70 - 130
Phenanthrene	<0.039		1.96	2.01		ug/L		103	70 - 130
Propachlor	<0.049		1.96	2.29		ug/L		117	70 - 130
Pyrene	<0.049		1.96	1.45		ug/L		74	70 - 130
Simazine	<0.049		1.96	2.24		ug/L		114	70 - 130
Terbacil	<0.098		1.96	2.06		ug/L		105	70 - 130
Terbutylazine	<0.098		1.96	2.45		ug/L		125	70 - 130
Thiobencarb	<0.098		1.96	1.62		ug/L		83	70 - 130
trans-Nonachlor	<0.049		1.96	2.04		ug/L		104	70 - 130
Trifluralin	<0.098		1.96	2.28		ug/L		117	70 - 130

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-198936-AA-1-A MS**

**Matrix: Water**

**Analysis Batch: 208615**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 208072**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	108		70 - 130
Triphenylphosphate	117		70 - 130

**Lab Sample ID: 380-198975-I-1-A DU**

**Matrix: Water**

**Analysis Batch: 208615**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 208072**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
2,4'-DDD	<0.10		<0.099		ug/L		NC	20
2,4'-DDE	<0.10		<0.099		ug/L		NC	20
2,4'-DDT	<0.10		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
4,4'-DDD	<0.10		<0.099		ug/L		NC	20
4,4'-DDE	<0.10		<0.099		ug/L		NC	20
4,4'-DDT	<0.10		<0.099		ug/L		NC	20
Acenaphthene	<0.10		<0.099		ug/L		NC	20
Acenaphthylene	<0.10		<0.099		ug/L		NC	20
Acetochlor	<0.10		<0.099		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.10		<0.099		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.10		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60	*+	<0.59	*+	ug/L		NC	20
Bromacil	<0.10		<0.099		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.10		<0.099		ug/L		NC	20
Chloroneb	<0.10		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.10		<0.099		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.10		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	0.029		0.0247		ug/L		15	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-198975-I-1-A DU

Matrix: Water

Analysis Batch: 208615

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 208072

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<1.0		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.10		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.10		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.10		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.10		<0.099		ug/L		NC	20
Endrin	<0.010		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.10		<0.099		ug/L		NC	20
EPTC	<0.10		<0.099		ug/L		NC	20
Fluoranthene	<0.10		<0.099		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20
Heptachlor	<0.010		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.010		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.10		<0.099		ug/L		NC	20
Lindane	<0.010		<0.0099		ug/L		NC	20
Malathion	<0.10		<0.099		ug/L		NC	20
Methoxychlor	<0.050		<0.049		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.10		<0.099		ug/L		NC	20
Naphthalene	<0.10		<0.099		ug/L		NC	20
Parathion	<0.10		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.10		<0.099		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.10		<0.099		ug/L		NC	20
Terbutylazine	<0.10		<0.099		ug/L		NC	20
Thiobencarb	<0.10		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.10		<0.099		ug/L		NC	20

Surrogate	DU		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	105		70 - 130
Triphenylphosphate	121		70 - 130

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 570-698456/1-A**  
**Matrix: Water**  
**Analysis Batch: 702941**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 698456**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>

  

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>92</i>		<i>33 - 139</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>83</i>		<i>33 - 126</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>58</i>		<i>12 - 120</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>98</i>		<i>36 - 120</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>39</i>		<i>10 - 120</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>87</i>		<i>47 - 131</i>	<i>02/19/26 18:39</i>	<i>03/02/26 13:06</i>	<i>1</i>

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

**Lab Sample ID: MB 570-698456/1-A**  
**Matrix: Water**  
**Analysis Batch: 700718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 698456**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1-Methylnaphthalene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Acenaphthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Acenaphthylene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Anthracene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Chrysene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Fluoranthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Fluorene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Naphthalene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Phenanthrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Pyrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>

  

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>102</i>		<i>28 - 127</i>	<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>87</i>		<i>31 - 120</i>	<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>61</i>		<i>17 - 120</i>	<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>92</i>		<i>27 - 120</i>	<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>37</i>		<i>10 - 120</i>	<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>83</i>		<i>45 - 120</i>	<i>02/19/26 18:39</i>	<i>02/25/26 03:53</i>	<i>1</i>

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCS 570-698456/2-A**

**Matrix: Water**

**Analysis Batch: 700718**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 698456**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.8		ug/L		94	47 - 120
2-Methylnaphthalene	20.0	18.6		ug/L		93	43 - 120
Acenaphthene	20.0	18.3		ug/L		91	60 - 132
Acenaphthylene	20.0	17.9		ug/L		89	54 - 126
Anthracene	20.0	19.4		ug/L		97	43 - 120
Benzo[a]anthracene	20.0	19.8		ug/L		99	42 - 133
Benzo[a]pyrene	20.0	21.7		ug/L		109	32 - 148
Benzo[b]fluoranthene	20.0	20.5		ug/L		102	42 - 140
Benzo[g,h,i]perylene	20.0	20.6		ug/L		103	1 - 195
Benzo[k]fluoranthene	20.0	19.3		ug/L		97	25 - 146
Chrysene	20.0	19.2		ug/L		96	44 - 140
Dibenz(a,h)anthracene	20.0	21.2		ug/L		106	1 - 200
Fluoranthene	20.0	20.1		ug/L		101	43 - 121
Fluorene	20.0	19.1		ug/L		96	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	22.1		ug/L		111	1 - 151
Naphthalene	20.0	18.8		ug/L		94	36 - 120
Phenanthrene	20.0	19.8		ug/L		99	65 - 120
Pyrene	20.0	20.2		ug/L		101	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	100		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	71		17 - 120
Nitrobenzene-d5 (Surr)	87		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

**Lab Sample ID: LCSD 570-698456/3-A**

**Matrix: Water**

**Analysis Batch: 700718**

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

**Prep Type: Total/NA**

**Prep Batch: 698456**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
1-Methylnaphthalene	20.0	17.8		ug/L		89	47 - 120	6	20
2-Methylnaphthalene	20.0	17.6		ug/L		88	43 - 120	6	20
Acenaphthene	20.0	18.1		ug/L		90	60 - 132	1	29
Acenaphthylene	20.0	18.2		ug/L		91	54 - 126	2	45
Anthracene	20.0	18.6		ug/L		93	43 - 120	4	40
Benzo[a]anthracene	20.0	19.4		ug/L		97	42 - 133	2	32
Benzo[a]pyrene	20.0	21.2		ug/L		106	32 - 148	2	43
Benzo[b]fluoranthene	20.0	20.3		ug/L		102	42 - 140	1	43
Benzo[g,h,i]perylene	20.0	19.8		ug/L		99	1 - 195	4	61
Benzo[k]fluoranthene	20.0	19.0		ug/L		95	25 - 146	2	38
Chrysene	20.0	18.9		ug/L		94	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	20.3		ug/L		102	1 - 200	4	75
Fluoranthene	20.0	19.5		ug/L		98	43 - 121	3	40
Fluorene	20.0	19.3		ug/L		97	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	21.6		ug/L		108	1 - 151	2	60
Naphthalene	20.0	17.7		ug/L		89	36 - 120	6	39

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCSD 570-698456/3-A**

**Matrix: Water**

**Analysis Batch: 700718**

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

**Prep Type: Total/NA**

**Prep Batch: 698456**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	19.0		ug/L		95	65 - 120	4	24
Pyrene	20.0	19.7		ug/L		98	70 - 120	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	97		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

**Lab Sample ID: 380-198981-C-1-A MS**

**Matrix: Water**

**Analysis Batch: 701134**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 698456**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.20	F2	39.0	22.1		ug/L		57	36 - 120
2-Methylnaphthalene	<0.20	F2	39.0	21.8		ug/L		56	32 - 124
Acenaphthene	<0.20	F2	39.0	25.6		ug/L		66	47 - 145
Acenaphthylene	<0.20		39.0	24.6		ug/L		63	33 - 145
Anthracene	<0.20		39.0	25.7		ug/L		66	27 - 133
Benzo[a]anthracene	<0.20	F2 F1	39.0	28.1		ug/L		72	33 - 143
Benzo[a]pyrene	<0.20		39.0	30.0		ug/L		77	17 - 163
Benzo[b]fluoranthene	<0.20		39.0	28.9		ug/L		74	24 - 159
Benzo[g,h,i]perylene	<0.20		39.0	27.6		ug/L		71	1 - 219
Benzo[k]fluoranthene	<0.20		39.0	26.4		ug/L		68	11 - 162
Chrysene	<0.20		39.0	27.2		ug/L		70	17 - 168
Dibenz(a,h)anthracene	<0.20		39.0	28.6		ug/L		73	1 - 227
Fluoranthene	<0.20	F1	39.0	27.6		ug/L		71	26 - 137
Fluorene	<0.20	F2 F1	39.0	27.2		ug/L		70	59 - 121
Indeno[1,2,3-cd]pyrene	<0.20		39.0	29.7		ug/L		76	1 - 171
Naphthalene	<0.20		39.0	20.1		ug/L		52	21 - 133
Phenanthrene	<0.20	F2 F1	39.0	26.4		ug/L		68	54 - 120
Pyrene	<0.20	F2 F1	39.0	28.9		ug/L		74	52 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	67		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	74		45 - 120

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-198981-C-1-B MSD

Matrix: Water

Analysis Batch: 701134

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 698456

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1-Methylnaphthalene	<0.20	F2	19.8	15.9	F2	ug/L		81	36 - 120	33	30
2-Methylnaphthalene	<0.20	F2	19.8	15.2	F2	ug/L		77	32 - 124	36	30
Acenaphthene	<0.20	F2	19.8	14.2	F2	ug/L		72	47 - 145	57	48
Acenaphthylene	<0.20		19.8	13.8		ug/L		70	33 - 145	56	74
Anthracene	<0.20		19.8	15.1		ug/L		76	27 - 133	52	66
Benzo[a]anthracene	<0.20	F2 F1	19.8	15.4	F2	ug/L		78	33 - 143	59	53
Benzo[a]pyrene	<0.20		19.8	15.8		ug/L		80	17 - 163	62	72
Benzo[b]fluoranthene	<0.20		19.8	15.2		ug/L		77	24 - 159	62	71
Benzo[g,h,i]perylene	<0.20		19.8	15.8		ug/L		80	1 - 219	54	97
Benzo[k]fluoranthene	<0.20		19.8	14.8		ug/L		75	11 - 162	56	63
Chrysene	<0.20		19.8	14.9		ug/L		75	17 - 168	59	87
Dibenz(a,h)anthracene	<0.20		19.8	16.2		ug/L		82	1 - 227	55	126
Fluoranthene	<0.20	F1	19.8	15.9		ug/L		80	26 - 137	54	66
Fluorene	<0.20	F2 F1	19.8	14.7	F2	ug/L		74	59 - 121	60	38
Indeno[1,2,3-cd]pyrene	<0.20		19.8	16.9		ug/L		85	1 - 171	55	99
Naphthalene	<0.20		19.8	15.2		ug/L		77	21 - 133	28	65
Phenanthrene	<0.20	F2 F1	19.8	15.3	F2	ug/L		77	54 - 120	53	39
Pyrene	<0.20	F2 F1	19.8	15.7	F2	ug/L		80	52 - 120	59	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	79		28 - 127
2-Fluorobiphenyl (Surr)	70		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	71		45 - 120

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

Lab Sample ID: MB 570-698930/5

Matrix: Water

Analysis Batch: 698930

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			02/20/26 14:57	1

  

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		38 - 134		02/20/26 14:57	1

Lab Sample ID: LCS 570-698930/3

Matrix: Water

Analysis Batch: 698930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	413		ug/L		103	78 - 120

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCS 570-698930/3**

**Matrix: Water**

**Analysis Batch: 698930**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

	LCS	LCS	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	84		38 - 134

**Lab Sample ID: LCSD 570-698930/4**

**Matrix: Water**

**Analysis Batch: 698930**

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

**Prep Type: Total/NA**

<u>Analyte</u>		<u>Spike</u>	LCSD		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	%Rec		<u>RPD</u>	<u>Limit</u>
			<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>	<u>RPD</u>		
Gasoline Range Organics (C4-C13)		400	395		ug/L		99	78 - 120	5	10	

	LCSD	LCSD	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	92		38 - 134

**Lab Sample ID: MRL 570-698930/6**

**Matrix: Water**

**Analysis Batch: 698930**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<u>Analyte</u>		<u>Spike</u>	MRL		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	%Rec	
			<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>	
Gasoline Range Organics (C4-C13)		10.0	8.41	J	ug/L		84	50 - 150	

	MRL	MRL	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	89		38 - 134

**Lab Sample ID: 380-198981-A-1 MS**

**Matrix: Water**

**Analysis Batch: 698930**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

<u>Analyte</u>	<u>Sample</u>	<u>Sample</u>	<u>Spike</u>	MS		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	%Rec	
				<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>	
Gasoline Range Organics (C4-C13)	<10		400	383		ug/L		96	68 - 122	

	MS	MS	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	89		38 - 134

**Lab Sample ID: 380-198981-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 698930**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

<u>Analyte</u>	<u>Sample</u>	<u>Sample</u>	<u>Spike</u>	MSD		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	%Rec		<u>RPD</u>	<u>Limit</u>
				<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>	<u>RPD</u>		
Gasoline Range Organics (C4-C13)	<10		400	401		ug/L		100	68 - 122	5	18	

	MSD	MSD	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	94		38 - 134

# QC Sample Results

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

Job ID: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 570-699749/1-A**  
**Matrix: Water**  
**Analysis Batch: 700123**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 699749**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		02/23/26 08:51	02/24/26 00:27	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		02/23/26 08:51	02/24/26 00:27	1
C8-C18	<25		25	ug/L		02/23/26 08:51	02/24/26 00:27	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	94		60 - 130			02/23/26 08:51	02/24/26 00:27	1

**Lab Sample ID: LCS 570-699749/2-A**  
**Matrix: Water**  
**Analysis Batch: 700123**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 699749**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1600		ug/L		100	56 - 127
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	110		60 - 130				

**Lab Sample ID: LCSD 570-699749/3-A**  
**Matrix: Water**  
**Analysis Batch: 700123**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 699749**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C28	1600	1800		ug/L		113	56 - 127	12	23
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	114		60 - 130						

**Lab Sample ID: MRL 570-699749/4-A**  
**Matrix: Water**  
**Analysis Batch: 700424**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 699749**

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	<0.020		mg/L		93	50 - 150
Surrogate	MRL MRL		Limits				
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	108		60 - 130				

**Lab Sample ID: 380-198981-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 700123**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 699749**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
C10-C28	<26		1660	1710		ug/L		103	70 - 130
Surrogate	MS MS		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	102		60 - 130						

# QC Sample Results

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-198981-B-1-B MSD**

**Matrix: Water**

**Analysis Batch: 700123**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 699749**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
C10-C28	<26		1660	1690		ug/L		102	70 - 130	1	20	
Surrogate	MSD %Recovery	MSD Qualifier	Limits									
<i>n</i> -Octacosane (Surr)	108		60 - 130									

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# QC Association Summary

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

## GC/MS Semi VOA

### Prep Batch: 208072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	525.2	
MB 380-208072/21-B	Method Blank	Total/NA	Water	525.2	
LCS 380-208072/23-B	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-208072/22-B	Lab Control Sample	Total/NA	Water	525.2	
380-198936-AA-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-198975-I-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 208615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	525.2	208072
MB 380-208072/21-B	Method Blank	Total/NA	Water	525.2	208072
LCS 380-208072/23-B	Lab Control Sample	Total/NA	Water	525.2	208072
MRL 380-208072/22-B	Lab Control Sample	Total/NA	Water	525.2	208072
380-198936-AA-1-A MS	Matrix Spike	Total/NA	Water	525.2	208072
380-198975-I-1-A DU	Duplicate	Total/NA	Water	525.2	208072

### Prep Batch: 698456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	625.1	
MB 570-698456/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-698456/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-698456/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-198981-C-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-198981-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 700718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-698456/1-A	Method Blank	Total/NA	Water	625.1 SIM	698456
LCS 570-698456/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	698456
LCSD 570-698456/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	698456

### Analysis Batch: 701134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	625.1 SIM	698456
380-198981-C-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	698456
380-198981-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	698456

### Analysis Batch: 702941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	625.1	698456
MB 570-698456/1-A	Method Blank	Total/NA	Water	625.1	698456

## GC VOA

### Analysis Batch: 698930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	8015B GRO LL	
380-198985-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B GRO LL	
MB 570-698930/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-698930/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-698930/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

## QC Association Summary

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

### GC VOA (Continued)

#### Analysis Batch: 698930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-698930/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-198981-A-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-198981-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

### GC Semi VOA

#### Prep Batch: 699749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1 - RA	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	3510C	
MB 570-699749/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-699749/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-699749/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-699749/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-198981-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-198981-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

#### Analysis Batch: 700123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-699749/1-A	Method Blank	Total/NA	Water	8015B	699749
LCS 570-699749/2-A	Lab Control Sample	Total/NA	Water	8015B	699749
LCSD 570-699749/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	699749
380-198981-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	699749
380-198981-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	699749

#### Analysis Batch: 700424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-198985-1 - RA	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	8015B	699749
MRL 570-699749/4-A	Lab Control Sample	Total/NA	Water	8015B	699749

# Lab Chronicle

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-1**

Date Collected: 02/17/26 11:05

Matrix: Drinking Water

Date Received: 02/19/26 09:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			208072	IQ42	EA POM	02/24/26 14:32
Total/NA	Analysis	525.2		1	208615	Q8LA	EA POM	02/25/26 12:53
Total/NA	Prep	625.1			698456	S4EA	EET CAL 4	02/20/26 07:00
Total/NA	Analysis	625.1		1	702941	PQS1	EET CAL 4	03/02/26 12:17
Total/NA	Prep	625.1			698456	S4EA	EET CAL 4	02/20/26 07:00
Total/NA	Analysis	625.1 SIM		1	701134	J7WE	EET CAL 4	02/25/26 21:29
Total/NA	Analysis	8015B GRO LL		1	698930	A9VE	EET CAL 4	02/21/26 01:39
Total/NA	Prep	3510C	RA		699749	TVD6	EET CAL 4	02/23/26 08:51
Total/NA	Analysis	8015B	RA	1	700424	TR8L	EET CAL 4	02/24/26 17:23

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-198985-2**

Date Collected: 02/17/26 11:05

Matrix: Water

Date Received: 02/19/26 09:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	698930	A9VE	EET CAL 4	02/21/26 00:07

**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: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

## 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	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: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-27
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	03-01-27
Washington	State	C916	10-12-26

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# Method Summary

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

Job ID: 380-198985-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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: 380-198985-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-198985-1	AIEA GULCH WELLS PUMP 2	Drinking Water	02/17/26 11:05	02/19/26 09:29	Hawaii
380-198985-2	TB: AIEA GULCH WELLS PUMP 2	Water	02/17/26 11:05	02/19/26 09:29	Hawaii

- 1
- 2
- 3
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- 16

# Chain of Custody Record

<b>Client Information</b>		Lab PM: Lopez, Maria		Carrier Tracking No(s):	
Client Contact: Mr Kirk Iwamoto		E-Mail: Maria.Lopez@et.eurofins.com		State of Origin:	
City & County of Honolulu		PWSID:		COC No:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Page: Page 1 of 1	
City: Honolulu		TAT Requested (days):		Job #:	
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes: R - NaOH/SO4 RA - NaOH/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Total Number of Containers	
Email: iwamoto@hbws.org		WO #: 38001111		Other:	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		380-198985 COC	
Site: Hawaii		SSON#:		Special Instructions/Note:	

  

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (Inventor, Swab, On-site, etc.)	Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		801B, GRO, LL (MOD) GRO	801B, PRO, LL, CS - HNL Ranges: C10-C24/C24-C38/C38-C18	801B, PREC - (MOD) 826plus Plus TICs	57.1, DW, PREC - 537.1 Full List	53 - All Analytes	Analysis Requested
						R	Q	RA	Q						
Aiea Gulch Wells Pump 2	17-Feb-2026	1105	G		Water										
Aiea Gulch Wells Pump 2 (Matrix Spike)					Water										
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)					Water										
TB: Aiea Gulch Wells Pump 2	17-Feb-2026	1105			Water										

  

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Received by: <i>Maria Lopez</i>	Date/Time: 7/19/26	Company: <i>ETI</i>
Received by: _____	Date/Time: _____	Company: _____
Received by: _____	Date/Time: _____	Company: _____

Cooler Temperature(s) °C and Other Remarks: *(63M) 34 + 0.2 - 3.6 gel-frozen*





## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-198985-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 2

**Login Number: 198985**

**List Number: 1**

**Creator: Edrosa, Rey**

**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: 380-198985-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 2

**Login Number: 198985**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 02/19/26 06:35 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	