

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Moanalua Wells  
RUSH Weekly Red Hill

## JOB NUMBER

380-206982-1

# 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: 380-206982-1  
SDG: Weekly: Moanalua Wells

### Qualifiers

#### GC/MS Semi VOA

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

#### GC/MS Semi VOA TICs

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

### 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: 380-206982-1

**Job ID: 380-206982-1**

**Eurofins Pomona**

## Job Narrative 380-206982-1

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 4/8/2026 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 4.1°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: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-206982-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.029		0.0098	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-2**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-1**

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

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		04/13/26 15:53	04/15/26 13:25	1
2,4'-DDD	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
2,4'-DDE	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
2,4'-DDT	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
4,4'-DDD	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
4,4'-DDE	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
4,4'-DDT	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Acenaphthene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Acenaphthylene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Acetochlor	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Alachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
alpha-BHC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
alpha-Chlordane	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Anthracene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 13:25	1
Atrazine	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 13:25	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 13:25	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 13:25	1
beta-BHC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/13/26 15:53	04/15/26 13:25	1
Bromacil	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Butachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/13/26 15:53	04/15/26 13:25	1
Chlorobenzilate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Chloroneb	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Chlorpyrifos	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Chrysene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 13:25	1
delta-BHC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/13/26 15:53	04/15/26 13:25	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
<b>Dieldrin</b>	<b>0.029</b>		0.0098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Diethylphthalate	<0.49		0.49	ug/L		04/13/26 15:53	04/15/26 13:25	1
Dimethylphthalate	<0.49		0.49	ug/L		04/13/26 15:53	04/15/26 13:25	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/13/26 15:53	04/15/26 13:25	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Endrin	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Endrin aldehyde	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
EPTC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Fluoranthene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1

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# Client Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-1**

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
gamma-Chlordane	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Heptachlor	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Isophorone	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Lindane	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Malathion	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Methoxychlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Metolachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Molinate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Naphthalene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Parathion	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Phenanthrene	<0.039		0.039	ug/L		04/13/26 15:53	04/15/26 13:25	1
Propachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Pyrene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Simazine	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Terbacil	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Terbutylazine	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Thiobencarb	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/13/26 15:53	04/15/26 13:25	1
trans-Nonachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 13:25	1
Trifluralin	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 13:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/13/26 15:53	04/15/26 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	04/13/26 15:53	04/15/26 13:25	1
Perylene-d12	87		70 - 130	04/13/26 15:53	04/15/26 13:25	1
Triphenylphosphate	98		70 - 130	04/13/26 15:53	04/15/26 13:25	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		04/09/26 05:42	04/13/26 13:35	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Acenaphthene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Acenaphthylene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Anthracene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Chrysene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Fluoranthene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1

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# Client Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-1**

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

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
Fluorene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Naphthalene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Phenanthrene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1
Pyrene	<0.19		0.19	ug/L		04/09/26 05:42	04/13/26 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		28 - 127	04/09/26 05:42	04/13/26 13:35	1
2-Fluorobiphenyl (Surr)	71		31 - 120	04/09/26 05:42	04/13/26 13:35	1
2-Fluorophenol (Surr)	47		17 - 120	04/09/26 05:42	04/13/26 13:35	1
Nitrobenzene-d5 (Surr)	78		27 - 120	04/09/26 05:42	04/13/26 13:35	1
Phenol-d6 (Surr)	28		10 - 120	04/09/26 05:42	04/13/26 13:35	1
p-Terphenyl-d14 (Surr)	68		45 - 120	04/09/26 05:42	04/13/26 13:35	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	04/09/26 05:42	04/16/26 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		33 - 139	04/09/26 05:42	04/16/26 11:44	1
2-Fluorobiphenyl (Surr)	89		33 - 126	04/09/26 05:42	04/16/26 11:44	1
2-Fluorophenol (Surr)	51		12 - 120	04/09/26 05:42	04/16/26 11:44	1
Nitrobenzene-d5 (Surr)	87		36 - 120	04/09/26 05:42	04/16/26 11:44	1
Phenol-d6 (Surr)	30		10 - 120	04/09/26 05:42	04/16/26 11:44	1
p-Terphenyl-d14 (Surr)	82		47 - 131	04/09/26 05:42	04/16/26 11:44	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			04/15/26 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		38 - 134		04/15/26 23:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		04/10/26 09:57	04/12/26 15:38	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/10/26 09:57	04/12/26 15:38	1
C8-C18	<26		26	ug/L		04/10/26 09:57	04/12/26 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 130	04/10/26 09:57	04/12/26 15:38	1

**Client Sample ID: TB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-2**

Date Collected: 04/06/26 10:03

Matrix: Water

Date Received: 04/08/26 10:00

**Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/16/26 00:02	1

# Client Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: TB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-2**

Date Collected: 04/06/26 10:03

Matrix: Water

Date Received: 04/08/26 10:00

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	102		38 - 134		04/16/26 00:02	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: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-1**

**PWSID Number: HI0000331**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		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: 380-206982-1  
SDG: Weekly: Moanalua Wells

## 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)
380-206982-1	MOANALUA WELLS (331-223-TP2C	97	87	98

**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)
380-207013-R-1-A MS	Matrix Spike	98	93	100
380-207013-S-1-A MSD	Matrix Spike Duplicate	97	93	102
LCS 380-219571/23-A	Lab Control Sample	96	95	103
MB 380-219571/21-A	Method Blank	97	88	94
MRL 380-219571/22-A	Lab Control Sample	99	86	98

**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)
380-206982-1	MOANALUA WELLS (331-223-TP2C	58	89	51	87	30	82

**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 570-721199/1-A	Method Blank	77	76	48	78	27	81

**Surrogate Legend**

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

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# Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-206982-1

Project/Site: RED-HILL

SDG: Weekly: Moanalua Wells

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)
380-206982-1	MOANALUA WELLS (331-223-TP20)	75	71	47	78	28	68

**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)
380-206949-A-1-A MS	Matrix Spike	83	81	70	82	44	86
380-206949-A-1-B MSD	Matrix Spike Duplicate	86	86	73	81	46	85
LCS 570-721199/2-A	Lab Control Sample	79	80	65	76	42	83
LCSd 570-721199/3-A	Lab Control Sample Dup	80	80	63	76	40	83
MB 570-721199/1-A	Method Blank	77	74	49	83	29	72

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

## 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)
380-206982-1	MOANALUA WELLS (331-223-TP20)	106

**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)
380-206949-C-1 MS	Matrix Spike	104
380-206949-C-1 MSD	Matrix Spike Duplicate	102
380-206982-2	TB: MOANALUA WELLS (331-223-TP202)	102

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# Surrogate Summary

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

## 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 570-724791/3	Lab Control Sample	109
LCSD 570-724791/4	Lab Control Sample Dup	105
MB 570-724791/6	Method Blank	102
MRL 570-724791/5	Lab Control Sample	102

#### 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)
380-206982-1	MOANALUA WELLS (331-223-TP2)	95

#### 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)
380-206949-B-1-A MS	Matrix Spike	101
380-206949-B-1-B MSD	Matrix Spike Duplicate	106
LCS 570-722504/2-A	Lab Control Sample	104
LCSD 570-722504/3-A	Lab Control Sample Dup	98
MB 570-722504/1-A	Method Blank	92
MRL 570-722504/4-A	Lab Control Sample	96

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MB 380-219571/21-A**  
**Matrix: Water**  
**Analysis Batch: 220114**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 219571**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
2,4'-DDD	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
2,4'-DDE	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
2,4'-DDT	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
4,4'-DDD	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
4,4'-DDE	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
4,4'-DDT	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Acenaphthene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Acenaphthylene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Acetochlor	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Alachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
alpha-BHC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
alpha-Chlordane	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Anthracene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 09:00	1
Atrazine	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 09:00	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 09:00	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 09:00	1
beta-BHC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/13/26 15:53	04/15/26 09:00	1
Bromacil	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Butachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/13/26 15:53	04/15/26 09:00	1
Chlorobenzilate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Chloroneb	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Chlorpyrifos	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Chrysene	<0.020		0.020	ug/L		04/13/26 15:53	04/15/26 09:00	1
delta-BHC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/13/26 15:53	04/15/26 09:00	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Dieldrin	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Diethylphthalate	<0.49		0.49	ug/L		04/13/26 15:53	04/15/26 09:00	1
Dimethylphthalate	<0.49		0.49	ug/L		04/13/26 15:53	04/15/26 09:00	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/13/26 15:53	04/15/26 09:00	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Endrin	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Endrin aldehyde	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
EPTC	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1

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# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MB 380-219571/21-A**  
**Matrix: Water**  
**Analysis Batch: 220114**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 219571**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Fluorene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
gamma-Chlordane	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Heptachlor	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Isophorone	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Lindane	<0.0098		0.0098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Malathion	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Methoxychlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Metolachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Molinate	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Naphthalene	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Parathion	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Phenanthrene	<0.039		0.039	ug/L		04/13/26 15:53	04/15/26 09:00	1
Propachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Pyrene	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Simazine	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Terbacil	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Terbutylazine	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Thiobencarb	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/13/26 15:53	04/15/26 09:00	1
trans-Nonachlor	<0.049		0.049	ug/L		04/13/26 15:53	04/15/26 09:00	1
Trifluralin	<0.098		0.098	ug/L		04/13/26 15:53	04/15/26 09:00	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Pentadecane, 7-methyl-	1.21	T J N	ug/L		3.01	6165-40-8	04/13/26 15:53	04/15/26 09:00	1
Undecane	5.08	T J N	ug/L		3.13	1120-21-4	04/13/26 15:53	04/15/26 09:00	1
Plumbane, diethyldimethyl-	0.746	T J N	ug/L		3.26	1762-27-2	04/13/26 15:53	04/15/26 09:00	1
Cyclohexasiloxane, dodecamethyl-	0.662	T J N	ug/L		3.87	540-97-6	04/13/26 15:53	04/15/26 09:00	1
9-Octadecenamamide, (Z)-	0.629	T J N	ug/L		7.88	301-02-0	04/13/26 15:53	04/15/26 09:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	97		70 - 130	04/13/26 15:53	04/15/26 09:00	1
Perylene-d12	88		70 - 130	04/13/26 15:53	04/15/26 09:00	1
Triphenylphosphate	94		70 - 130	04/13/26 15:53	04/15/26 09:00	1

**Lab Sample ID: LCS 380-219571/23-A**  
**Matrix: Water**  
**Analysis Batch: 220114**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 219571**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.96	1.92		ug/L		98	70 - 130
2,4'-DDD	1.96	2.19		ug/L		112	70 - 130
2,4'-DDE	1.96	2.21		ug/L		113	70 - 130

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# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-219571/23-A

Matrix: Water

Analysis Batch: 220114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 219571

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDT	1.96	2.16		ug/L		110	70 - 130
2,4-Dinitrotoluene	1.96	2.05		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.96	1.95		ug/L		99	70 - 130
2-Methylnaphthalene	1.96	2.01		ug/L		102	70 - 130
4,4'-DDD	1.96	2.30		ug/L		117	70 - 130
4,4'-DDE	1.96	1.93		ug/L		98	70 - 130
4,4'-DDT	1.96	2.38		ug/L		121	70 - 130
Acenaphthene	1.96	1.98		ug/L		101	70 - 130
Acenaphthylene	1.96	2.13		ug/L		108	70 - 130
Acetochlor	1.96	2.30		ug/L		117	70 - 130
Alachlor	1.96	2.35		ug/L		120	70 - 130
alpha-BHC	1.96	2.11		ug/L		108	70 - 130
alpha-Chlordane	1.96	2.18		ug/L		111	70 - 130
Anthracene	1.96	2.05		ug/L		104	70 - 130
Atrazine	1.96	2.26		ug/L		115	70 - 130
Benz(a)anthracene	1.96	2.09		ug/L		107	70 - 130
Benzo[a]pyrene	1.96	2.09		ug/L		106	70 - 130
Benzo[b]fluoranthene	1.96	2.14		ug/L		109	70 - 130
Benzo[g,h,i]perylene	1.96	1.96		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.96	2.10		ug/L		107	70 - 130
beta-BHC	1.96	2.24		ug/L		114	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	2.14		ug/L		109	70 - 130
Bromacil	1.96	1.92		ug/L		98	70 - 130
Butachlor	1.96	2.42		ug/L		123	70 - 130
Butylbenzylphthalate	1.96	2.29		ug/L		117	70 - 130
Chlorobenzilate	1.96	2.23		ug/L		114	70 - 130
Chloroneb	1.96	2.15		ug/L		109	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.16		ug/L		110	70 - 130
Chlorpyrifos	1.96	2.43		ug/L		124	70 - 130
Chrysene	1.96	2.27		ug/L		116	70 - 130
delta-BHC	1.96	2.09		ug/L		106	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.25		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.96	1.95		ug/L		99	70 - 130
Diclorvos (DDVP)	1.96	2.11		ug/L		108	70 - 130
Dieldrin	1.96	2.23		ug/L		114	70 - 130
Diethylphthalate	1.96	2.34		ug/L		119	70 - 130
Dimethylphthalate	1.96	2.13		ug/L		109	70 - 130
Di-n-butyl phthalate	3.93	4.40		ug/L		112	70 - 130
Di-n-octyl phthalate	1.96	2.15		ug/L		109	70 - 130
Endosulfan I (Alpha)	1.96	2.23		ug/L		114	70 - 130
Endosulfan II (Beta)	1.96	2.18		ug/L		111	70 - 130
Endosulfan sulfate	1.96	2.05		ug/L		105	70 - 130
Endrin	1.96	2.44		ug/L		124	70 - 130
Endrin aldehyde	1.96	2.06		ug/L		105	60 - 130
EPTC	1.96	2.22		ug/L		113	70 - 130
Fluoranthene	1.96	2.28		ug/L		116	70 - 130
Fluorene	1.96	2.12		ug/L		108	70 - 130
gamma-Chlordane	1.96	2.27		ug/L		116	70 - 130
Heptachlor	1.96	2.04		ug/L		104	70 - 130

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# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: LCS 380-219571/23-A**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Heptachlor epoxide (isomer B)	1.96	2.14		ug/L		109	70 - 130
Hexachlorobenzene	1.96	1.96		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.96	1.87		ug/L		95	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.03		ug/L		104	70 - 130
Isophorone	1.96	2.09		ug/L		106	70 - 130
Lindane	1.96	2.38		ug/L		121	70 - 130
Malathion	1.96	2.20		ug/L		112	70 - 130
Methoxychlor	1.96	2.36		ug/L		120	70 - 130
Metolachlor	1.96	2.40		ug/L		122	70 - 130
Molinate	1.96	2.30		ug/L		117	70 - 130
Naphthalene	1.96	2.09		ug/L		106	70 - 130
Parathion	1.96	2.41		ug/L		122	70 - 130
Pendimethalin (Penoxaline)	1.96	2.22		ug/L		113	70 - 130
Phenanthrene	1.96	2.03		ug/L		103	70 - 130
Propachlor	1.96	2.40		ug/L		122	70 - 130
Pyrene	1.96	2.36		ug/L		120	70 - 130
Simazine	1.96	2.10		ug/L		107	70 - 130
Terbacil	1.96	1.94		ug/L		99	70 - 130
Terbutylazine	1.96	2.23		ug/L		114	70 - 130
Thiobencarb	1.96	2.33		ug/L		119	70 - 130
trans-Nonachlor	1.96	2.18		ug/L		111	70 - 130
Trifluralin	1.96	2.00		ug/L		102	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	103		70 - 130

**Lab Sample ID: MRL 380-219571/22-A**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
1-Methylnaphthalene	0.0985	0.116		ug/L		118	50 - 150
2,4'-DDD	0.0985	0.0922	J	ug/L		94	50 - 150
2,4'-DDE	0.0985	0.0964	J	ug/L		98	50 - 150
2,4'-DDT	0.0985	0.112		ug/L		113	50 - 150
2,4-Dinitrotoluene	0.0985	0.110		ug/L		112	50 - 150
2,6-Dinitrotoluene	0.0985	0.127		ug/L		129	50 - 150
2-Methylnaphthalene	0.0985	0.108		ug/L		109	50 - 150
4,4'-DDD	0.0985	0.109		ug/L		111	50 - 150
4,4'-DDE	0.0985	0.0897	J	ug/L		91	50 - 150
4,4'-DDT	0.0985	0.118		ug/L		119	50 - 150
Acenaphthene	0.0985	0.0969	J	ug/L		98	50 - 150
Acenaphthylene	0.0985	0.0853	J	ug/L		87	50 - 150
Acetochlor	0.0985	0.102		ug/L		104	50 - 150
Alachlor	0.0493	0.0526		ug/L		107	50 - 150
alpha-BHC	0.0985	0.0916	J	ug/L		93	50 - 150

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# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MRL 380-219571/22-A**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
alpha-Chlordane	0.0246	<0.029		ug/L		107	50 - 150
Anthracene	0.0197	0.0190	J	ug/L		96	50 - 150
Atrazine	0.0493	0.0524		ug/L		106	50 - 150
Benz(a)anthracene	0.0493	0.0465	J	ug/L		94	50 - 150
Benzo[a]pyrene	0.0197	0.0200		ug/L		101	50 - 150
Benzo[b]fluoranthene	0.0197	0.0257		ug/L		131	50 - 150
Benzo[g,h,i]perylene	0.0493	0.0480	J	ug/L		97	50 - 150
Benzo[k]fluoranthene	0.0197	0.0220		ug/L		112	50 - 150
beta-BHC	0.0985	0.0965	J	ug/L		98	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.567	J	ug/L		96	50 - 150
Bromacil	0.0985	0.101		ug/L		103	50 - 150
Butachlor	0.0493	0.0500		ug/L		102	50 - 150
Butylbenzylphthalate	0.493	0.520		ug/L		106	50 - 150
Chlorobenzilate	0.0985	0.0979	J	ug/L		99	50 - 150
Chloroneb	0.0985	0.0975	J	ug/L		99	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.101		ug/L		102	50 - 150
Chlorpyrifos	0.0493	0.0442	J	ug/L		90	50 - 150
Chrysene	0.0197	0.0228		ug/L		116	50 - 150
delta-BHC	0.0985	0.0916	J	ug/L		93	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.595		ug/L		101	50 - 150
Dibenz(a,h)anthracene	0.0493	0.0471	J	ug/L		96	50 - 150
Diclorvos (DDVP)	0.0493	0.0570		ug/L		116	50 - 150
Dieldrin	0.00985	0.0126		ug/L		128	50 - 150
Diethylphthalate	0.493	0.518		ug/L		105	50 - 150
Dimethylphthalate	0.493	0.483	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.493	0.532	J	ug/L		108	49 - 243
Di-n-octyl phthalate	0.0985	0.0971	J	ug/L		99	50 - 150
Endosulfan I (Alpha)	0.0985	0.0912	J	ug/L		93	50 - 150
Endosulfan II (Beta)	0.0985	0.0886	J	ug/L		90	50 - 150
Endosulfan sulfate	0.0985	0.102		ug/L		104	50 - 150
Endrin	0.00985	0.0115		ug/L		116	50 - 150
Endrin aldehyde	0.0985	0.0955	J	ug/L		97	50 - 150
EPTC	0.0985	0.0959	J	ug/L		97	50 - 150
Fluoranthene	0.0985	0.0858	J	ug/L		87	50 - 150
Fluorene	0.0493	<0.049		ug/L		97	50 - 150
gamma-Chlordane	0.0246	0.0261	J	ug/L		106	50 - 150
Heptachlor	0.00985	0.0119		ug/L		121	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.00881	J	ug/L		89	50 - 150
Hexachlorobenzene	0.0493	0.0406	J	ug/L		82	50 - 150
Hexachlorocyclopentadiene	0.0493	0.0527		ug/L		107	50 - 150
Indeno[1,2,3-cd]pyrene	0.0493	0.0473	J	ug/L		96	50 - 150
Isophorone	0.0985	0.112		ug/L		113	50 - 150
Lindane	0.00985	0.0102		ug/L		103	50 - 150
Malathion	0.0985	0.0964	J	ug/L		98	50 - 150
Methoxychlor	0.0493	0.0567		ug/L		115	50 - 150
Metolachlor	0.0493	0.0532		ug/L		108	50 - 150
Molinate	0.0985	0.0957	J	ug/L		97	50 - 150
Naphthalene	0.0985	0.0959	J	ug/L		97	50 - 150
Parathion	0.0985	0.0949	J	ug/L		96	50 - 150

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# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MRL 380-219571/22-A**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Pendimethalin (Penoxaline)	0.0985	0.0995		ug/L		101	50 - 150
Phenanthrene	0.0394	0.0387	J	ug/L		98	50 - 150
Propachlor	0.0493	0.0493		ug/L		100	50 - 150
Pyrene	0.0493	0.0453	J	ug/L		92	50 - 150
Simazine	0.0493	0.0535		ug/L		109	50 - 150
Terbacil	0.0985	0.106		ug/L		108	50 - 150
Terbutylazine	0.0985	0.102		ug/L		103	50 - 150
Thiobencarb	0.0985	0.107		ug/L		109	50 - 150
trans-Nonachlor	0.0246	0.0289	J	ug/L		117	50 - 150
Trifluralin	0.0985	0.0925	J	ug/L		94	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	98		70 - 130

**Lab Sample ID: 380-207013-R-1-A MS**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.098		1.97	1.95		ug/L		98	70 - 130
2,4'-DDD	<0.098		1.97	2.18		ug/L		111	70 - 130
2,4'-DDE	<0.098		1.97	2.20		ug/L		112	70 - 130
2,4'-DDT	<0.098		1.97	2.12		ug/L		107	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.14		ug/L		109	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	2.10		ug/L		106	70 - 130
2-Methylnaphthalene	<0.098		1.97	2.02		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.97	2.28		ug/L		116	70 - 130
4,4'-DDE	<0.098		1.97	1.90		ug/L		96	70 - 130
4,4'-DDT	<0.098		1.97	2.29		ug/L		117	70 - 130
Acenaphthene	<0.098		1.97	1.98		ug/L		100	70 - 130
Acenaphthylene	<0.098		1.97	2.05		ug/L		104	70 - 130
Acetochlor	<0.098		1.97	2.33		ug/L		118	70 - 130
Alachlor	<0.049		1.97	2.35		ug/L		119	70 - 130
alpha-BHC	<0.098		1.97	2.05		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.97	2.20		ug/L		112	70 - 130
Anthracene	<0.020		1.97	1.50		ug/L		76	70 - 130
Atrazine	<0.049		1.97	2.23		ug/L		113	70 - 130
Benz(a)anthracene	<0.049		1.97	1.98		ug/L		101	70 - 130
Benzo[a]pyrene	<0.020		1.97	1.91		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.16		ug/L		110	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.05		ug/L		104	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	2.05		ug/L		104	70 - 130
beta-BHC	<0.098		1.97	2.20		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	2.04		ug/L		104	70 - 130
Bromacil	<0.098		1.97	2.19		ug/L		111	70 - 130
Butachlor	<0.049		1.97	2.44		ug/L		124	70 - 130

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# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-207013-R-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 220114**

**Prep Batch: 219571**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Butylbenzylphthalate	<0.49		1.97	2.21		ug/L		112	70 - 130
Chlorobenzilate	<0.098		1.97	2.21		ug/L		113	70 - 130
Chloroneb	<0.098		1.97	2.11		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.13		ug/L		108	70 - 130
Chlorpyrifos	<0.049		1.97	2.42		ug/L		123	70 - 130
Chrysene	<0.020		1.97	2.31		ug/L		118	70 - 130
delta-BHC	<0.098		1.97	2.06		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.12		ug/L		108	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.92		ug/L		97	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.20		ug/L		112	70 - 130
Dieldrin	<0.0098		1.97	2.26		ug/L		115	70 - 130
Diethylphthalate	<0.49		1.97	2.29		ug/L		116	70 - 130
Dimethylphthalate	<0.49		1.97	2.16		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.98		3.94	4.42		ug/L		106	70 - 130
Di-n-octyl phthalate	<0.098		1.97	2.05		ug/L		104	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	2.18		ug/L		111	70 - 130
Endosulfan II (Beta)	<0.098		1.97	2.21		ug/L		112	70 - 130
Endosulfan sulfate	<0.098		1.97	2.04		ug/L		103	70 - 130
Endrin	<0.0098		1.97	2.42		ug/L		123	70 - 130
Endrin aldehyde	<0.098		1.97	1.97		ug/L		100	60 - 130
EPTC	<0.098		1.97	2.24		ug/L		114	70 - 130
Fluoranthene	<0.098		1.97	2.27		ug/L		115	70 - 130
Fluorene	<0.049		1.97	2.11		ug/L		107	70 - 130
gamma-Chlordane	<0.049		1.97	2.32		ug/L		118	70 - 130
Heptachlor	<0.0098		1.97	2.06		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.97	2.18		ug/L		111	70 - 130
Hexachlorobenzene	<0.049		1.97	1.95		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.88		ug/L		95	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.04		ug/L		103	70 - 130
Isophorone	<0.098		1.97	2.17		ug/L		110	70 - 130
Lindane	<0.0098		1.97	2.31		ug/L		117	70 - 130
Malathion	<0.098		1.97	2.18		ug/L		111	70 - 130
Methoxychlor	<0.049		1.97	2.33		ug/L		119	70 - 130
Metolachlor	<0.049		1.97	2.41		ug/L		122	70 - 130
Molinate	<0.098		1.97	2.29		ug/L		116	70 - 130
Naphthalene	<0.098		1.97	2.11		ug/L		107	70 - 130
Parathion	<0.098		1.97	2.35		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	2.14		ug/L		109	70 - 130
Phenanthrene	<0.039		1.97	2.05		ug/L		104	70 - 130
Propachlor	<0.049		1.97	2.39		ug/L		121	70 - 130
Pyrene	<0.049		1.97	2.34		ug/L		119	70 - 130
Simazine	<0.049		1.97	2.19		ug/L		111	70 - 130
Terbacil	<0.098		1.97	2.15		ug/L		109	70 - 130
Terbutylazine	<0.098		1.97	2.20		ug/L		112	70 - 130
Thiobencarb	<0.098		1.97	2.33		ug/L		118	70 - 130
trans-Nonachlor	<0.049		1.97	2.20		ug/L		112	70 - 130
Trifluralin	<0.098		1.97	1.93		ug/L		98	70 - 130

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-207013-R-1-A MS**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	100		70 - 130

**Lab Sample ID: 380-207013-S-1-A MSD**

**Matrix: Water**

**Analysis Batch: 220114**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 219571**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
1-Methylnaphthalene	<0.098		1.97	1.95		ug/L		98	70 - 130	0	20	
2,4'-DDD	<0.098		1.97	2.19		ug/L		111	70 - 130	0	20	
2,4'-DDE	<0.098		1.97	2.19		ug/L		111	70 - 130	1	20	
2,4'-DDT	<0.098		1.97	2.13		ug/L		108	70 - 130	1	20	
2,4-Dinitrotoluene	<0.098		1.97	2.22		ug/L		112	70 - 130	4	20	
2,6-Dinitrotoluene	<0.098		1.97	2.18		ug/L		110	70 - 130	4	20	
2-Methylnaphthalene	<0.098		1.97	2.02		ug/L		102	70 - 130	0	20	
4,4'-DDD	<0.098		1.97	2.27		ug/L		115	70 - 130	0	20	
4,4'-DDE	<0.098		1.97	1.91		ug/L		97	70 - 130	1	20	
4,4'-DDT	<0.098		1.97	2.32		ug/L		117	70 - 130	1	20	
Acenaphthene	<0.098		1.97	1.99		ug/L		101	70 - 130	1	20	
Acenaphthylene	<0.098		1.97	2.11		ug/L		107	70 - 130	3	20	
Acetochlor	<0.098		1.97	2.29		ug/L		116	70 - 130	1	20	
Alachlor	<0.049		1.97	2.36		ug/L		120	70 - 130	1	20	
alpha-BHC	<0.098		1.97	2.08		ug/L		106	70 - 130	2	20	
alpha-Chlordane	<0.049		1.97	2.23		ug/L		113	70 - 130	1	20	
Anthracene	<0.020		1.97	1.38		ug/L		70	70 - 130	8	20	
Atrazine	<0.049		1.97	2.27		ug/L		115	70 - 130	2	20	
Benz(a)anthracene	<0.049		1.97	1.97		ug/L		100	70 - 130	1	20	
Benzo[a]pyrene	<0.020		1.97	1.86		ug/L		94	70 - 130	2	20	
Benzo[b]fluoranthene	<0.020		1.97	2.13		ug/L		108	70 - 130	1	20	
Benzo[g,h,i]perylene	<0.049		1.97	2.03		ug/L		103	70 - 130	1	20	
Benzo[k]fluoranthene	<0.020		1.97	2.13		ug/L		108	70 - 130	4	20	
beta-BHC	<0.098		1.97	2.23		ug/L		113	70 - 130	1	20	
Bis(2-ethylhexyl) phthalate	<0.59		1.97	1.99		ug/L		101	70 - 130	3	20	
Bromacil	<0.098		1.97	2.22		ug/L		113	70 - 130	1	20	
Butachlor	<0.049		1.97	2.43		ug/L		123	70 - 130	1	20	
Butylbenzylphthalate	<0.49		1.97	2.22		ug/L		112	70 - 130	0	20	
Chlorobenzilate	<0.098		1.97	2.21		ug/L		112	70 - 130	0	20	
Chloroneb	<0.098		1.97	2.14		ug/L		109	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.14		ug/L		109	70 - 130	1	20	
Chlorpyrifos	<0.049		1.97	2.43		ug/L		123	70 - 130	1	20	
Chrysene	<0.020		1.97	2.27		ug/L		115	70 - 130	2	20	
delta-BHC	<0.098		1.97	2.06		ug/L		104	70 - 130	0	20	
Di(2-ethylhexyl)adipate	<0.59		1.97	2.10		ug/L		106	70 - 130	1	20	
Dibenz(a,h)anthracene	<0.049		1.97	1.99		ug/L		101	70 - 130	4	20	
Diclorvos (DDVP)	<0.049		1.97	2.20		ug/L		111	70 - 130	0	20	
Dieldrin	<0.0098		1.97	2.26		ug/L		115	70 - 130	0	20	
Diethylphthalate	<0.49		1.97	2.33		ug/L		118	70 - 130	2	20	

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-207013-S-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 220114

Prep Batch: 219571

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Dimethylphthalate	<0.49		1.97	2.21		ug/L		112	70 - 130	2	20
Di-n-butyl phthalate	<0.98		3.95	4.49		ug/L		108	70 - 130	2	20
Di-n-octyl phthalate	<0.098		1.97	1.96		ug/L		99	70 - 130	4	20
Endosulfan I (Alpha)	<0.098		1.97	2.20		ug/L		112	70 - 130	1	20
Endosulfan II (Beta)	<0.098		1.97	2.15		ug/L		109	70 - 130	3	20
Endosulfan sulfate	<0.098		1.97	2.04		ug/L		103	70 - 130	0	20
Endrin	<0.0098		1.97	2.46		ug/L		125	70 - 130	2	20
Endrin aldehyde	<0.098		1.97	2.01		ug/L		102	60 - 130	2	20
EPTC	<0.098		1.97	2.25		ug/L		114	70 - 130	1	20
Fluoranthene	<0.098		1.97	2.32		ug/L		117	70 - 130	2	20
Fluorene	<0.049		1.97	2.14		ug/L		108	70 - 130	1	20
gamma-Chlordane	<0.049		1.97	2.34		ug/L		118	70 - 130	1	20
Heptachlor	<0.0098		1.97	2.09		ug/L		106	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0098		1.97	2.24		ug/L		113	70 - 130	3	20
Hexachlorobenzene	<0.049		1.97	2.00		ug/L		102	70 - 130	3	20
Hexachlorocyclopentadiene	<0.049		1.97	1.88		ug/L		95	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.03		ug/L		103	70 - 130	0	20
Isophorone	<0.098		1.97	2.16		ug/L		109	70 - 130	1	20
Lindane	<0.0098		1.97	2.37		ug/L		120	70 - 130	3	20
Malathion	<0.098		1.97	2.20		ug/L		112	70 - 130	1	20
Methoxychlor	<0.049		1.97	2.40		ug/L		122	70 - 130	3	20
Metolachlor	<0.049		1.97	2.41		ug/L		122	70 - 130	0	20
Molinate	<0.098		1.97	2.31		ug/L		117	70 - 130	1	20
Naphthalene	<0.098		1.97	2.10		ug/L		106	70 - 130	1	20
Parathion	<0.098		1.97	2.37		ug/L		120	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.098		1.97	2.18		ug/L		110	70 - 130	2	20
Phenanthrene	<0.039		1.97	2.05		ug/L		104	70 - 130	0	20
Propachlor	<0.049		1.97	2.42		ug/L		123	70 - 130	1	20
Pyrene	<0.049		1.97	2.37		ug/L		120	70 - 130	1	20
Simazine	<0.049		1.97	2.23		ug/L		113	70 - 130	2	20
Terbacil	<0.098		1.97	2.21		ug/L		112	70 - 130	3	20
Terbutylazine	<0.098		1.97	2.28		ug/L		115	70 - 130	3	20
Thiobencarb	<0.098		1.97	2.32		ug/L		117	70 - 130	0	20
trans-Nonachlor	<0.049		1.97	2.21		ug/L		112	70 - 130	1	20
Trifluralin	<0.098		1.97	2.03		ug/L		103	70 - 130	5	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	102		70 - 130

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MB 570-721199/1-A**  
**Matrix: Water**  
**Analysis Batch: 724152**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 721199**

<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>04/08/26 08:31</i>	<i>04/14/26 13:00</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>77</i>		<i>33 - 139</i>	<i>04/08/26 08:31</i>	<i>04/14/26 13:00</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>76</i>		<i>33 - 126</i>	<i>04/08/26 08:31</i>	<i>04/14/26 13:00</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>48</i>		<i>12 - 120</i>	<i>04/08/26 08:31</i>	<i>04/14/26 13:00</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>78</i>		<i>36 - 120</i>	<i>04/08/26 08:31</i>	<i>04/14/26 13:00</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>27</i>		<i>10 - 120</i>	<i>04/08/26 08:31</i>	<i>04/14/26 13:00</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>81</i>		<i>47 - 131</i>	<i>04/08/26 08:31</i>	<i>04/14/26 13:00</i>	<i>1</i>

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

**Lab Sample ID: MB 570-721199/1-A**  
**Matrix: Water**  
**Analysis Batch: 723181**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 721199**

<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>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Acenaphthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Acenaphthylene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Anthracene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</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>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Chrysene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Fluoranthene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Fluorene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</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>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Naphthalene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Phenanthrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Pyrene</i>	<i>&lt;0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>04/08/26 08:31</i>	<i>04/12/26 12:06</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>77</i>		<i>28 - 127</i>	<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>74</i>		<i>31 - 120</i>	<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>49</i>		<i>17 - 120</i>	<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>83</i>		<i>27 - 120</i>	<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>29</i>		<i>10 - 120</i>	<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>72</i>		<i>45 - 120</i>	<i>04/08/26 08:31</i>	<i>04/12/26 12:06</i>	<i>1</i>

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: LCS 570-721199/2-A**

**Matrix: Water**

**Analysis Batch: 723181**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 721199**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1-Methylnaphthalene	20.0	14.5		ug/L		72	47 - 120	
2-Methylnaphthalene	20.0	13.8		ug/L		69	43 - 120	
Acenaphthene	20.0	16.2		ug/L		81	60 - 132	
Acenaphthylene	20.0	16.6		ug/L		83	54 - 126	
Anthracene	20.0	16.1		ug/L		80	43 - 120	
Benzo[a]anthracene	20.0	16.8		ug/L		84	42 - 133	
Benzo[a]pyrene	20.0	18.1		ug/L		91	32 - 148	
Benzo[b]fluoranthene	20.0	17.8		ug/L		89	42 - 140	
Benzo[g,h,i]perylene	20.0	16.1		ug/L		81	1 - 195	
Benzo[k]fluoranthene	20.0	16.7		ug/L		83	25 - 146	
Chrysene	20.0	16.0		ug/L		80	44 - 140	
Dibenz(a,h)anthracene	20.0	16.9		ug/L		85	1 - 200	
Fluoranthene	20.0	16.7		ug/L		83	43 - 121	
Fluorene	20.0	16.5		ug/L		82	70 - 120	
Indeno[1,2,3-cd]pyrene	20.0	16.6		ug/L		83	1 - 151	
Naphthalene	20.0	13.6		ug/L		68	36 - 120	
Phenanthrene	20.0	16.0		ug/L		80	65 - 120	
Pyrene	20.0	16.4		ug/L		82	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	79		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	65		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

**Lab Sample ID: LCSD 570-721199/3-A**

**Matrix: Water**

**Analysis Batch: 723181**

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

**Prep Type: Total/NA**

**Prep Batch: 721199**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
1-Methylnaphthalene	20.0	14.6		ug/L		73	47 - 120	1	20	
2-Methylnaphthalene	20.0	13.9		ug/L		70	43 - 120	1	20	
Acenaphthene	20.0	16.7		ug/L		83	60 - 132	3	29	
Acenaphthylene	20.0	17.1		ug/L		85	54 - 126	3	45	
Anthracene	20.0	16.5		ug/L		83	43 - 120	3	40	
Benzo[a]anthracene	20.0	17.2		ug/L		86	42 - 133	2	32	
Benzo[a]pyrene	20.0	18.4		ug/L		92	32 - 148	1	43	
Benzo[b]fluoranthene	20.0	18.0		ug/L		90	42 - 140	1	43	
Benzo[g,h,i]perylene	20.0	16.6		ug/L		83	1 - 195	3	61	
Benzo[k]fluoranthene	20.0	17.1		ug/L		85	25 - 146	3	38	
Chrysene	20.0	16.3		ug/L		81	44 - 140	2	53	
Dibenz(a,h)anthracene	20.0	17.7		ug/L		89	1 - 200	5	75	
Fluoranthene	20.0	17.1		ug/L		86	43 - 121	3	40	
Fluorene	20.0	16.9		ug/L		84	70 - 120	3	23	
Indeno[1,2,3-cd]pyrene	20.0	17.3		ug/L		86	1 - 151	4	60	
Naphthalene	20.0	13.9		ug/L		69	36 - 120	2	39	

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCSD 570-721199/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 723181

Prep Batch: 721199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	16.6		ug/L		83	65 - 120	4	24
Pyrene	20.0	17.0		ug/L		85	70 - 120	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: 380-206949-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 723382

Prep Batch: 721199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.4	15.5		ug/L		80	36 - 120
2-Methylnaphthalene	<0.19		19.4	15.2		ug/L		78	32 - 124
Acenaphthene	<0.19		19.4	16.7		ug/L		86	47 - 145
Acenaphthylene	<0.19		19.4	16.8		ug/L		87	33 - 145
Anthracene	<0.19		19.4	16.8		ug/L		87	27 - 133
Benzo[a]anthracene	<0.19		19.4	17.9		ug/L		92	33 - 143
Benzo[a]pyrene	<0.19		19.4	19.4		ug/L		100	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	18.8		ug/L		97	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	16.5		ug/L		85	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	17.8		ug/L		92	11 - 162
Chrysene	<0.19		19.4	16.8		ug/L		87	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	17.2		ug/L		89	1 - 227
Fluoranthene	<0.19		19.4	17.8		ug/L		92	26 - 137
Fluorene	<0.19		19.4	17.0		ug/L		88	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	17.4		ug/L		90	1 - 171
Naphthalene	<0.19		19.4	14.9		ug/L		77	21 - 133
Phenanthrene	<0.19		19.4	16.7		ug/L		86	54 - 120
Pyrene	<0.19		19.4	17.3		ug/L		89	52 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	70		17 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-206949-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 723382

Prep Batch: 721199

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1-Methylnaphthalene	<0.19		19.3	15.9		ug/L		83	36 - 120	3	30
2-Methylnaphthalene	<0.19		19.3	15.3		ug/L		79	32 - 124	1	30
Acenaphthene	<0.19		19.3	17.9		ug/L		93	47 - 145	6	48
Acenaphthylene	<0.19		19.3	17.9		ug/L		92	33 - 145	6	74
Anthracene	<0.19		19.3	17.3		ug/L		90	27 - 133	3	66
Benzo[a]anthracene	<0.19		19.3	18.5		ug/L		96	33 - 143	3	53
Benzo[a]pyrene	<0.19		19.3	20.0		ug/L		104	17 - 163	4	72
Benzo[b]fluoranthene	<0.19		19.3	19.5		ug/L		101	24 - 159	4	71
Benzo[g,h,i]perylene	<0.19		19.3	17.6		ug/L		91	1 - 219	6	97
Benzo[k]fluoranthene	<0.19		19.3	18.4		ug/L		95	11 - 162	3	63
Chrysene	<0.19		19.3	17.2		ug/L		89	17 - 168	2	87
Dibenz(a,h)anthracene	<0.19		19.3	18.7		ug/L		97	1 - 227	8	126
Fluoranthene	<0.19		19.3	18.6		ug/L		96	26 - 137	5	66
Fluorene	<0.19		19.3	17.7		ug/L		92	59 - 121	4	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	18.4		ug/L		95	1 - 171	5	99
Naphthalene	<0.19		19.3	15.1		ug/L		78	21 - 133	1	65
Phenanthrene	<0.19		19.3	17.3		ug/L		90	54 - 120	4	39
Pyrene	<0.19		19.3	17.4		ug/L		90	52 - 120	0	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	73		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

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

Lab Sample ID: MB 570-724791/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 724791

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			04/15/26 14:25	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		38 - 134		04/15/26 14:25	1

Lab Sample ID: LCS 570-724791/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 724791

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	411		ug/L		103	78 - 120

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: LCS 570-724791/3**  
**Matrix: Water**  
**Analysis Batch: 724791**

**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)	109		38 - 134

**Lab Sample ID: LCSD 570-724791/4**  
**Matrix: Water**  
**Analysis Batch: 724791**

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

<u>Analyte</u>		Spike <u>Added</u>	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
			<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>		
Gasoline Range Organics (C4-C13)		400	404		ug/L		101	78 - 120	2	10
<u>Surrogate</u>	LCSD	LCSD					<u>%Recovery</u>			<u>Limits</u>
4-Bromofluorobenzene (Surr)	105						105			38 - 134

**Lab Sample ID: MRL 570-724791/5**  
**Matrix: Water**  
**Analysis Batch: 724791**

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

<u>Analyte</u>		Spike <u>Added</u>	MRL	MRL	Unit	D	%Rec	%Rec		
			<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>		
Gasoline Range Organics (C4-C13)		10.0	11.8		ug/L		118	50 - 150		
<u>Surrogate</u>	MRL	MRL					<u>%Recovery</u>			<u>Limits</u>
4-Bromofluorobenzene (Surr)	102						102			38 - 134

**Lab Sample ID: 380-206949-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 724791**

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

<u>Analyte</u>	Sample <u>Result</u>	Sample <u>Qualifier</u>	Spike <u>Added</u>	MS	MS	Unit	D	%Rec	%Rec		
				<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>		
Gasoline Range Organics (C4-C13)	<10		400	420		ug/L		105	68 - 122		
<u>Surrogate</u>	MS	MS					<u>%Recovery</u>			<u>Limits</u>	
4-Bromofluorobenzene (Surr)	104						104			38 - 134	

**Lab Sample ID: 380-206949-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 724791**

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

<u>Analyte</u>	Sample <u>Result</u>	Sample <u>Qualifier</u>	Spike <u>Added</u>	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
				<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>		
Gasoline Range Organics (C4-C13)	<10		400	414		ug/L		103	68 - 122	1	18
<u>Surrogate</u>	MSD	MSD					<u>%Recovery</u>			<u>Limits</u>	
4-Bromofluorobenzene (Surr)	102						102			38 - 134	

# QC Sample Results

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MB 570-722504/1-A**  
**Matrix: Water**  
**Analysis Batch: 722774**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 722504**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/10/26 09:56	04/10/26 22:15	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/10/26 09:56	04/10/26 22:15	1
C8-C18	<25		25	ug/L		04/10/26 09:56	04/10/26 22:15	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
n-Octacosane (Surr)	92		60 - 130			04/10/26 09:56	04/10/26 22:15	1

**Lab Sample ID: LCS 570-722504/2-A**  
**Matrix: Water**  
**Analysis Batch: 722774**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 722504**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1530		ug/L		95	56 - 127
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
n-Octacosane (Surr)	104		60 - 130				

**Lab Sample ID: LCSD 570-722504/3-A**  
**Matrix: Water**  
**Analysis Batch: 722774**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 722504**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
C10-C28	1600	1490		ug/L		93	56 - 127	2	23
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
n-Octacosane (Surr)	98		60 - 130						

**Lab Sample ID: MRL 570-722504/4-A**  
**Matrix: Water**  
**Analysis Batch: 723209**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 722504**

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	0.0253		mg/L		127	50 - 150
Surrogate	MRL	MRL	Limits				
	%Recovery	Qualifier					
n-Octacosane (Surr)	96		60 - 130				

**Lab Sample ID: 380-206949-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 722774**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 722504**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
C10-C28	<26		1700	1640		ug/L		97	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
n-Octacosane (Surr)	101		60 - 130						

# QC Sample Results

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

Job ID: 380-206982-1  
 SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-206949-B-1-B MSD**

**Matrix: Water**

**Analysis Batch: 722774**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 722504**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1670	1690		ug/L		101	70 - 130	3	20
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	106		60 - 130								

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# QC Association Summary

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

Job ID: 380-206982-1  
 SDG: Weekly: Moanalua Wells

## GC/MS Semi VOA

### Prep Batch: 219571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	
MB 380-219571/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-219571/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-219571/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-207013-R-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-207013-S-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 220114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	219571
MB 380-219571/21-A	Method Blank	Total/NA	Water	525.2	219571
LCS 380-219571/23-A	Lab Control Sample	Total/NA	Water	525.2	219571
MRL 380-219571/22-A	Lab Control Sample	Total/NA	Water	525.2	219571
380-207013-R-1-A MS	Matrix Spike	Total/NA	Water	525.2	219571
380-207013-S-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	219571

### Prep Batch: 721199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
MB 570-721199/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-721199/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-721199/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-206949-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-206949-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 723181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-721199/1-A	Method Blank	Total/NA	Water	625.1 SIM	721199
LCS 570-721199/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	721199
LCSD 570-721199/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	721199

### Analysis Batch: 723382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	721199
380-206949-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	721199
380-206949-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	721199

### Analysis Batch: 724152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-721199/1-A	Method Blank	Total/NA	Water	625.1	721199

### Analysis Batch: 725200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	721199

## GC VOA

### Analysis Batch: 724791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-206982-2	TB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-206982-1  
 SDG: Weekly: Moanalua Wells

## GC VOA (Continued)

### Analysis Batch: 724791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-724791/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-724791/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-724791/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-724791/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-206949-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-206949-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 722504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
MB 570-722504/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-722504/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-722504/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-722504/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-206949-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-206949-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 722774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-722504/1-A	Method Blank	Total/NA	Water	8015B	722504
LCS 570-722504/2-A	Lab Control Sample	Total/NA	Water	8015B	722504
LCSD 570-722504/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	722504
380-206949-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	722504
380-206949-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	722504

### Analysis Batch: 723209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206982-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	722504
MRL 570-722504/4-A	Lab Control Sample	Total/NA	Water	8015B	722504

## Lab Chronicle

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-1**

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			219571	IQ42	EA POM	04/13/26 15:53
Total/NA	Analysis	525.2		1	220114	UPAC	EA POM	04/15/26 13:25
Total/NA	Prep	625.1			721199	TIZL	EET CAL 4	04/09/26 05:42
Total/NA	Analysis	625.1		1	725200	PQS1	EET CAL 4	04/16/26 11:44
Total/NA	Prep	625.1			721199	TIZL	EET CAL 4	04/09/26 05:42
Total/NA	Analysis	625.1 SIM		1	723382	PQS1	EET CAL 4	04/13/26 13:35
Total/NA	Analysis	8015B GRO LL		1	724791	A9VE	EET CAL 4	04/15/26 23:38
Total/NA	Prep	3510C			722504	EP2G	EET CAL 4	04/10/26 09:57
Total/NA	Analysis	8015B		1	723209	UJ3K	EET CAL 4	04/12/26 15:38

**Client Sample ID: TB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-206982-2**

Date Collected: 04/06/26 10:03

Matrix: Water

Date Received: 04/08/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	724791	A9VE	EET CAL 4	04/16/26 00:02

**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: 380-206982-1  
 SDG: Weekly: Moanalua Wells

## 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	03-02-27
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: 380-206982-1  
SDG: Weekly: Moanalua Wells

## 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	02-28-27
Washington	State	C916	10-12-26

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# Method Summary

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

Job ID: 380-206982-1  
SDG: Weekly: Moanalua Wells

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: 380-206982-1  
SDG: Weekly: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-206982-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	04/06/26 10:03	04/08/26 10:00	HI0000331
380-206982-2	TB: MOANALUA WELLS (331-223-TP202)	Water	04/06/26 10:03	04/08/26 10:00	

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

SHIP DATE: 07APR26  
ACTWGT 62.00 LB  
CAD 25805055ZINET4535

BILL RECIPIENT

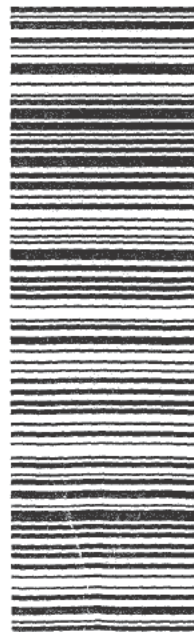
TO EUROFINS RECEIVING DEPARTMENT  
EUROFINS DRINKING WATER TESTING  
941 CORPORATE CENTER DR  
POMONA CA 91768

58KJ3J087D/4848

(626) 386-1100 REF  
INV. DEPT.  
P.O.



1 of 8  
TRK# 8704 1691 9939  
# MASTER # 91768  
WM ONTA CA-US ONT  
WED - 08 APR 10:30A  
PRIORITY OVERNIGHT



(631A) 21+0.2-2.3 961- frozen  
Mark Unreata  
4/8/26 1000

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

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delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document  
your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from  
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other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized  
declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g.  
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within strict time limits, see current FedEx Service Guide

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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-206982-1  
SDG Number: Weekly: Moanalua Wells

**Login Number: 206982**

**List Number: 1**

**Creator: Segura, Ryan**

**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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-206982-1  
SDG Number: Weekly: Moanalua Wells

**Login Number: 206982**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 04/08/26 07:35 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	1.9
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	

