eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/21/2026 4:11:23 PM

JOB DESCRIPTION

RED-HILL
Weekly: Moanalua Well P1

JOB NUMBER

380-191508-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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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Authorized for release by
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Table of Contents

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

Glossary

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

Job Narrative
380-191508-1

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 1/9/2026 10:02 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 2.3°C.

GC/MS Semi VOA
Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-681837.
Method 625.1 SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-681837.

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

Gasoline Range Organics
Method 8015B GRO LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-682005. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Diesel Range Organics
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-681284. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method: 8015_LL_CS

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-681284 and analytical batch 570-682292 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; 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.

Detection Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

Client Sample ID: MOANALUA WELL P1 — Lab Sample ID: 380-191508-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.020		0.0098		ug/L	1		525.2	Total/NA

Client Sample ID: TB: MOANALUA WELL P1 — Lab Sample ID: 380-191508-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MOANALUA WELL P1

Date Collected: 01/07/26 11:30
Date Received: 01/09/26 10:02

Lab Sample ID: 380-191508-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
2,4'-DDD	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
2,4'-DDE	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
2,4'-DDT	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
2-Methylnaphthalene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
4,4'-DDD	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
4,4'-DDE	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
4,4'-DDT	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Acenaphthene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Acenaphthylene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Acetochlor	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Alachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
alpha-BHC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
alpha-Chlordane	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Anthracene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 17:07	1
Atrazine	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Benz(a)anthracene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Benzo[a]pyrene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 17:07	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 17:07	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 17:07	1
beta-BHC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		01/09/26 14:31	01/12/26 17:07	1
Bromacil	<0.098	*1	0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Butachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Butylbenzylphthalate	<0.49		0.49		ug/L		01/09/26 14:31	01/12/26 17:07	1
Chlorobenzilate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Chloroneb	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Chlorpyrifos	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Chrysene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 17:07	1
delta-BHC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		01/09/26 14:31	01/12/26 17:07	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Dieldrin	**0.020**		0.0098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Diethylphthalate	<0.49		0.49		ug/L		01/09/26 14:31	01/12/26 17:07	1
Dimethylphthalate	<0.49		0.49		ug/L		01/09/26 14:31	01/12/26 17:07	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		01/09/26 14:31	01/12/26 17:07	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Endosulfan sulfate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Endrin	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Endrin aldehyde	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
EPTC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Fluoranthene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1

Client Sample ID: MOANALUA WELL P1
Date Collected: 01/07/26 11:30
Date Received: 01/09/26 10:02

Lab Sample ID: 380-191508-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
gamma-Chlordane	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Heptachlor	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Hexachlorobenzene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Isophorone	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Lindane	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Malathion	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Methoxychlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Metolachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Molinate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Naphthalene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Parathion	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Phenanthrene	<0.039		0.039		ug/L		01/09/26 14:31	01/12/26 17:07	1
Propachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Pyrene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Simazine	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Terbacil	<0.098	*1	0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Terbuthylazine	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Thiobencarb	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		01/09/26 14:31	01/12/26 17:07	1
trans-Nonachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 17:07	1
Trifluralin	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 17:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/09/26 14:31*	*01/12/26 17:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*94*		*70 - 130*	*01/09/26 14:31*	*01/12/26 17:07*	*1*
Perylene-d12	*71*		*70 - 130*	*01/09/26 14:31*	*01/12/26 17:07*	*1*
Triphenylphosphate	*102*		*70 - 130*	*01/09/26 14:31*	*01/12/26 17:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
2-Methylnaphthalene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Acenaphthene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Acenaphthylene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Anthracene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Benzo[a]anthracene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Benzo[a]pyrene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Chrysene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Fluoranthene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1

Client Sample ID: MOANALUA WELL P1

Lab Sample ID: 380-191508-1
Date Collected: 01/07/26 11:30
Matrix: Water
Date Received: 01/09/26 10:02

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		01/13/26 12:59	01/15/26 11:10	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Naphthalene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Phenanthrene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1
Pyrene	<0.19		0.19		ug/L		01/13/26 12:59	01/15/26 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*28 - 127*	*01/13/26 12:59*	*01/15/26 11:10*	*1*
2-Fluorobiphenyl (Surr)	*83*		*31 - 120*	*01/13/26 12:59*	*01/15/26 11:10*	*1*
2-Fluorophenol (Surr)	*53*		*17 - 120*	*01/13/26 12:59*	*01/15/26 11:10*	*1*
Nitrobenzene-d5 (Surr)	*86*		*27 - 120*	*01/13/26 12:59*	*01/15/26 11:10*	*1*
Phenol-d6 (Surr)	*35*		*10 - 120*	*01/13/26 12:59*	*01/15/26 11:10*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 120*	*01/13/26 12:59*	*01/15/26 11:10*	*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*
Phentermine	*1.6*	*T J N*	*ug/L*		*4.55*	*122-09-8*	*01/13/26 12:59*	*01/18/26 10:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*33 - 139*	*01/13/26 12:59*	*01/18/26 10:09*	*1*
2-Fluorobiphenyl (Surr)	*91*		*33 - 126*	*01/13/26 12:59*	*01/18/26 10:09*	*1*
2-Fluorophenol (Surr)	*52*		*12 - 120*	*01/13/26 12:59*	*01/18/26 10:09*	*1*
Nitrobenzene-d5 (Surr)	*98*		*36 - 120*	*01/13/26 12:59*	*01/18/26 10:09*	*1*
Phenol-d6 (Surr)	*32*		*10 - 120*	*01/13/26 12:59*	*01/18/26 10:09*	*1*
p-Terphenyl-d14 (Surr)	*91*		*47 - 131*	*01/13/26 12:59*	*01/18/26 10:09*	*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			01/10/26 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*		*01/10/26 20:49*	*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)	<29		29		ug/L		01/12/26 11:16	01/14/26 19:10	1
Motor Oil Range Organics [C24-C36]	<29		29		ug/L		01/12/26 11:16	01/14/26 19:10	1
C8-C18	<29		29		ug/L		01/12/26 11:16	01/14/26 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*122*		*60 - 130*	*01/12/26 11:16*	*01/14/26 19:10*	*1*

Client Sample ID: TB: MOANALUA WELL P1

Lab Sample ID: 380-191508-2
Date Collected: 01/07/26 11:30
Matrix: Water
Date Received: 01/09/26 10:02

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			01/14/26 01:29	1

Client Sample Results

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

Client Sample ID: TB: MOANALUA WELL P1

Date Collected: 01/07/26 11:30
Date Received: 01/09/26 10:02

Lab Sample ID: 380-191508-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*38 - 134*		*01/14/26 01:29*	*1*

Action Limit Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

Client Sample ID: MOANALUA WELL P1 — Lab Sample ID: 380-191508-1

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		2NMX	PRY	TPP							
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)							
380-190577-Q-1-A MS	Matrix Spike	94	95	104							
380-191507-A-1-B DU	Duplicate	93	68 S1-	101							
380-191508-1	MOANALUA WELL P1	94	71	102							
LCS 380-196823/21-A	Lab Control Sample	94	88	103							
LCSD 380-196823/22-A	Lab Control Sample Dup	93	94	101							
MB 380-196823/19-A	Method Blank	94	85	104							
MRL 380-196823/20-A	Lab Control Sample	94	92	102							

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)		
380-191508-1	MOANALUA WELL P1	85	91	52	98	32	91		
MB 570-681837/1-A	Method Blank	85	79	57	88	37	80		

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)		
380-191508-1	MOANALUA WELL P1	93	83	53	86	35	83		
LCS 570-681837/2-A	Lab Control Sample	88	83	63	85	41	90		
LCSD 570-681837/3-A	Lab Control Sample Dup	99	87	65	92	43	93		
MB 570-681837/1-A	Method Blank	80	79	56	79	37	78		

Surrogate Legend

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

Surrogate Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

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

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-191508-1	MOANALUA WELL P1	98
380-191508-2	TB: MOANALUA WELL P1	92
570-262565-N-1 MS	Matrix Spike	98
570-262565-O-1 MSD	Matrix Spike Duplicate	97
LCS 570-680870/1010	Lab Control Sample	96
LCS 570-682005/4	Lab Control Sample	100
LCSD 570-680870/11	Lab Control Sample Dup	94
LCSD 570-682005/5	Lab Control Sample Dup	91
MB 570-680870/12	Method Blank	83
MB 570-682005/8	Method Blank	94
MRL 570-680870/13	Lab Control Sample	88
MRL 570-682005/3	Lab Control Sample	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-191508-1	MOANALUA WELL P1	122
LCS 570-681284/2-A	Lab Control Sample	112
LCSD 570-681284/3-A	Lab Control Sample Dup	115
MB 570-681284/1-A	Method Blank	119
MRL 570-681284/4-A	Lab Control Sample	109

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 380-196823/19-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196823

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
2,4'-DDD	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
2,4'-DDE	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
2,4'-DDT	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
2-Methylnaphthalene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
4,4'-DDD	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
4,4'-DDE	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
4,4'-DDT	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Acenaphthene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Acenaphthylene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Acetochlor	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Alachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
alpha-BHC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
alpha-Chlordane	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Anthracene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 13:58	1
Atrazine	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Benz(a)anthracene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Benzo[a]pyrene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 13:58	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 13:58	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 13:58	1
beta-BHC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		01/09/26 14:31	01/12/26 13:58	1
Bromacil	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Butachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Butylbenzylphthalate	<0.49		0.49		ug/L		01/09/26 14:31	01/12/26 13:58	1
Chlorobenzilate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Chloroneb	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Chlorpyrifos	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Chrysene	<0.020		0.020		ug/L		01/09/26 14:31	01/12/26 13:58	1
delta-BHC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		01/09/26 14:31	01/12/26 13:58	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Dieldrin	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Diethylphthalate	<0.49		0.49		ug/L		01/09/26 14:31	01/12/26 13:58	1
Dimethylphthalate	<0.49		0.49		ug/L		01/09/26 14:31	01/12/26 13:58	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		01/09/26 14:31	01/12/26 13:58	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Endosulfan sulfate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Endrin	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Endrin aldehyde	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
EPTC	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1

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

Lab Sample ID: MB 380-196823/19-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196823

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Fluorene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
gamma-Chlordane	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Heptachlor	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Hexachlorobenzene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Isophorone	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Lindane	<0.0098		0.0098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Malathion	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Methoxychlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Metolachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Molinate	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Naphthalene	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Parathion	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Phenanthrene	<0.039		0.039		ug/L		01/09/26 14:31	01/12/26 13:58	1
Propachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Pyrene	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Simazine	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Terbacil	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Terbuthylazine	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Thiobencarb	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		01/09/26 14:31	01/12/26 13:58	1
trans-Nonachlor	<0.049		0.049		ug/L		01/09/26 14:31	01/12/26 13:58	1
Trifluralin	<0.098		0.098		ug/L		01/09/26 14:31	01/12/26 13:58	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentene, 1,2,3,4,5-pentamethyl-	*0.818*	*T J N*	*ug/L*		*2.53*	*1000154-28-6*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
Undecane	*2.52*	*T J N*	*ug/L*		*3.12*	*1120-21-4*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
Phenol, 4-(1,1-dimethylpropyl)-	*0.786*	*T J N*	*ug/L*		*4.27*	*80-46-6*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
9-Octadecenamide, (Z)-	*6.76*	*T J N*	*ug/L*		*7.94*	*301-02-0*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
13-Docosenamide, (Z)-	*3.78*	*T J N*	*ug/L*		*10.49*	*112-84-5*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
Unknown	*0.553*	*T J*	*ug/L*		*11.04*	*N/A*	*01/09/26 14:31*	*01/12/26 13:58*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*94*		*70 - 130*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
Perylene-d12	*85*		*70 - 130*	*01/09/26 14:31*	*01/12/26 13:58*	*1*
Triphenylphosphate	*104*		*70 - 130*	*01/09/26 14:31*	*01/12/26 13:58*	*1*

Lab Sample ID: LCS 380-196823/21-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			1.97	1.85		ug/L		94	70 - 130		

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

Lab Sample ID: LCS 380-196823/21-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	1.93		ug/L		98	70 - 130
2,4'-DDE	1.97	2.06		ug/L		105	70 - 130
2,4'-DDT	1.97	1.76		ug/L		90	70 - 130
2,4-Dinitrotoluene	1.97	1.53		ug/L		78	70 - 130
2,6-Dinitrotoluene	1.97	1.58		ug/L		80	70 - 130
2-Methylnaphthalene	1.97	1.84		ug/L		93	70 - 130
4,4'-DDD	1.97	1.85		ug/L		94	70 - 130
4,4'-DDE	1.97	2.28		ug/L		116	70 - 130
4,4'-DDT	1.97	1.75		ug/L		89	70 - 130
Acenaphthene	1.97	1.95		ug/L		99	70 - 130
Acenaphthylene	1.97	1.88		ug/L		96	70 - 130
Acetochlor	1.97	1.96		ug/L		100	70 - 130
Alachlor	1.97	2.20		ug/L		112	70 - 130
alpha-BHC	1.97	2.11		ug/L		107	70 - 130
alpha-Chlordane	1.97	1.85		ug/L		94	70 - 130
Anthracene	1.97	1.82		ug/L		92	70 - 130
Atrazine	1.97	2.01		ug/L		102	70 - 130
Benz(a)anthracene	1.97	1.87		ug/L		95	70 - 130
Benzo[a]pyrene	1.97	1.86		ug/L		95	70 - 130
Benzo[b]fluoranthene	1.97	2.01		ug/L		102	70 - 130
Benzo[g,h,i]perylene	1.97	1.75		ug/L		89	70 - 130
Benzo[k]fluoranthene	1.97	1.96		ug/L		100	70 - 130
beta-BHC	1.97	2.05		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.11		ug/L		107	70 - 130
Bromacil	1.97	1.85		ug/L		94	70 - 130
Butachlor	1.97	2.22		ug/L		113	70 - 130
Butylbenzylphthalate	1.97	2.22		ug/L		113	70 - 130
Chlorobenzilate	1.97	1.98		ug/L		101	70 - 130
Chloroneb	1.97	1.93		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.79		ug/L		91	70 - 130
Chlorpyrifos	1.97	2.11		ug/L		107	70 - 130
Chrysene	1.97	1.90		ug/L		97	70 - 130
delta-BHC	1.97	2.13		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.24		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.97	1.78		ug/L		91	70 - 130
Diclorvos (DDVP)	1.97	2.06		ug/L		105	70 - 130
Dieldrin	1.97	2.03		ug/L		103	70 - 130
Diethylphthalate	1.97	2.05		ug/L		104	70 - 130
Dimethylphthalate	1.97	2.14		ug/L		109	70 - 130
Di-n-butyl phthalate	3.93	4.08		ug/L		104	70 - 130
Di-n-octyl phthalate	1.97	2.02		ug/L		103	70 - 130
Endosulfan I (Alpha)	1.97	2.03		ug/L		103	70 - 130
Endosulfan II (Beta)	1.97	2.07		ug/L		105	70 - 130
Endosulfan sulfate	1.97	1.81		ug/L		92	70 - 130
Endrin	1.97	2.06		ug/L		105	70 - 130
Endrin aldehyde	1.97	1.68		ug/L		85	60 - 130
EPTC	1.97	2.03		ug/L		103	70 - 130
Fluoranthene	1.97	2.12		ug/L		108	70 - 130
Fluorene	1.97	2.12		ug/L		108	70 - 130

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

Lab Sample ID: LCS 380-196823/21-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.97	1.83		ug/L		93	70 - 130
Heptachlor	1.97	2.15		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.10		ug/L		107	70 - 130
Hexachlorobenzene	1.97	2.07		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	1.50		ug/L		76	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.80		ug/L		91	70 - 130
Isophorone	1.97	1.91		ug/L		97	70 - 130
Lindane	1.97	2.00		ug/L		102	70 - 130
Malathion	1.97	2.05		ug/L		104	70 - 130
Methoxychlor	1.97	1.98		ug/L		101	70 - 130
Metolachlor	1.97	2.18		ug/L		111	70 - 130
Molinate	1.97	2.12		ug/L		108	70 - 130
Naphthalene	1.97	1.89		ug/L		96	70 - 130
Parathion	1.97	1.77		ug/L		90	70 - 130
Pendimethalin (Penoxaline)	1.97	1.57		ug/L		80	70 - 130
Phenanthrene	1.97	1.99		ug/L		101	70 - 130
Propachlor	1.97	2.20		ug/L		112	70 - 130
Pyrene	1.97	2.09		ug/L		106	70 - 130
Simazine	1.97	2.12		ug/L		108	70 - 130
Terbacil	1.97	1.93		ug/L		98	70 - 130
Terbuthylazine	1.97	2.10		ug/L		107	70 - 130
Thiobencarb	1.97	2.07		ug/L		105	70 - 130
trans-Nonachlor	1.97	1.87		ug/L		95	70 - 130
Trifluralin	1.97	1.41		ug/L		71	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*94*		*70 - 130*
Perylene-d12	*88*		*70 - 130*
Triphenylphosphate	*103*		*70 - 130*

Lab Sample ID: LCSD 380-196823/22-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.96	1.84		ug/L		94	70 - 130	1	20
2,4'-DDD	1.96	1.92		ug/L		98	70 - 130	1	20
2,4'-DDE	1.96	2.10		ug/L		107	70 - 130	2	20
2,4'-DDT	1.96	1.79		ug/L		91	70 - 130	1	20
2,4-Dinitrotoluene	1.96	1.51		ug/L		77	70 - 130	1	20
2,6-Dinitrotoluene	1.96	1.49		ug/L		76	70 - 130	6	20
2-Methylnaphthalene	1.96	1.83		ug/L		93	70 - 130	0	20
4,4'-DDD	1.96	1.83		ug/L		94	70 - 130	1	20
4,4'-DDE	1.96	2.28		ug/L		116	70 - 130	0	20
4,4'-DDT	1.96	1.77		ug/L		90	70 - 130	1	20
Acenaphthene	1.96	1.94		ug/L		99	70 - 130	1	20
Acenaphthylene	1.96	1.97		ug/L		101	70 - 130	5	20
Acetochlor	1.96	1.95		ug/L		99	70 - 130	0	20

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

Lab Sample ID: LCSD 380-196823/22-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196823

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alachlor			1.96	2.24		ug/L		114	70 - 130	2	20
alpha-BHC			1.96	2.10		ug/L		107	70 - 130	0	20
alpha-Chlordane			1.96	1.82		ug/L		93	70 - 130	2	20
Anthracene			1.96	1.87		ug/L		95	70 - 130	3	20
Atrazine			1.96	1.91		ug/L		97	70 - 130	5	20
Benz(a)anthracene			1.96	1.88		ug/L		96	70 - 130	0	20
Benzo[a]pyrene			1.96	1.96		ug/L		100	70 - 130	5	20
Benzo[b]fluoranthene			1.96	2.05		ug/L		104	70 - 130	2	20
Benzo[g,h,i]perylene			1.96	1.86		ug/L		95	70 - 130	6	20
Benzo[k]fluoranthene			1.96	2.00		ug/L		102	70 - 130	2	20
beta-BHC			1.96	2.02		ug/L		103	70 - 130	1	20
Bis(2-ethylhexyl) phthalate			1.96	2.21		ug/L		113	70 - 130	5	20
Bromacil			1.96	1.49	*1	ug/L		76	70 - 130	22	20
Butachlor			1.96	2.24		ug/L		114	70 - 130	1	20
Butylbenzylphthalate			1.96	2.21		ug/L		112	70 - 130	1	20
Chlorobenzilate			1.96	1.98		ug/L		101	70 - 130	0	20
Chloroneb			1.96	1.96		ug/L		100	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)			1.96	1.89		ug/L		96	70 - 130	5	20
Chlorpyrifos			1.96	2.06		ug/L		105	70 - 130	2	20
Chrysene			1.96	1.88		ug/L		96	70 - 130	1	20
delta-BHC			1.96	2.10		ug/L		107	70 - 130	2	20
Di(2-ethylhexyl)adipate			1.96	2.28		ug/L		116	70 - 130	2	20
Dibenz(a,h)anthracene			1.96	1.84		ug/L		94	70 - 130	3	20
Diclorvos (DDVP)			1.96	1.94		ug/L		99	70 - 130	6	20
Dieldrin			1.96	2.02		ug/L		103	70 - 130	0	20
Diethylphthalate			1.96	2.10		ug/L		107	70 - 130	2	20
Dimethylphthalate			1.96	2.07		ug/L		106	70 - 130	3	20
Di-n-butyl phthalate			3.92	4.16		ug/L		106	70 - 130	2	20
Di-n-octyl phthalate			1.96	2.13		ug/L		109	70 - 130	5	20
Endosulfan I (Alpha)			1.96	1.95		ug/L		100	70 - 130	4	20
Endosulfan II (Beta)			1.96	1.98		ug/L		101	70 - 130	4	20
Endosulfan sulfate			1.96	1.85		ug/L		94	70 - 130	2	20
Endrin			1.96	2.12		ug/L		108	70 - 130	3	20
Endrin aldehyde			1.96	1.72		ug/L		87	60 - 130	2	20
EPTC			1.96	2.02		ug/L		103	70 - 130	0	20
Fluoranthene			1.96	2.08		ug/L		106	70 - 130	2	20
Fluorene			1.96	2.15		ug/L		109	70 - 130	1	20
gamma-Chlordane			1.96	1.85		ug/L		94	70 - 130	1	20
Heptachlor			1.96	2.15		ug/L		110	70 - 130	0	20
Heptachlor epoxide (isomer B)			1.96	2.01		ug/L		102	70 - 130	5	20
Hexachlorobenzene			1.96	2.09		ug/L		107	70 - 130	1	20
Hexachlorocyclopentadiene			1.96	1.56		ug/L		80	70 - 130	4	20
Indeno[1,2,3-cd]pyrene			1.96	1.88		ug/L		96	70 - 130	4	20
Isophorone			1.96	1.79		ug/L		91	70 - 130	7	20
Lindane			1.96	2.02		ug/L		103	70 - 130	1	20
Malathion			1.96	2.02		ug/L		103	70 - 130	2	20
Methoxychlor			1.96	1.98		ug/L		101	70 - 130	0	20
Metolachlor			1.96	2.14		ug/L		109	70 - 130	2	20
Molinate			1.96	2.13		ug/L		109	70 - 130	0	20

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

Lab Sample ID: LCSD 380-196823/22-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.96	1.86		ug/L		95	70 - 130	2	20
Parathion	1.96	1.94		ug/L		99	70 - 130	9	20
Pendimethalin (Penoxaline)	1.96	1.69		ug/L		86	70 - 130	7	20
Phenanthrene	1.96	1.96		ug/L		100	70 - 130	1	20
Propachlor	1.96	2.21		ug/L		113	70 - 130	1	20
Pyrene	1.96	2.07		ug/L		106	70 - 130	1	20
Simazine	1.96	1.92		ug/L		98	70 - 130	10	20
Terbacil	1.96	1.56	*1	ug/L		80	70 - 130	21	20
Terbuthylazine	1.96	2.08		ug/L		106	70 - 130	1	20
Thiobencarb	1.96	2.09		ug/L		106	70 - 130	1	20
trans-Nonachlor	1.96	1.82		ug/L		93	70 - 130	3	20
Trifluralin	1.96	1.56		ug/L		80	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Nitro-m-xylene	*93*		*70 - 130*
Perylene-d12	*94*		*70 - 130*
Triphenylphosphate	*101*		*70 - 130*

Lab Sample ID: MRL 380-196823/20-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.101		ug/L		103	50 - 150
2,4'-DDD	0.0981	0.0857	J	ug/L		87	50 - 150
2,4'-DDE	0.0981	0.0906	J	ug/L		92	50 - 150
2,4'-DDT	0.0981	0.102		ug/L		104	50 - 150
2,4-Dinitrotoluene	0.0981	0.0926	J	ug/L		94	50 - 150
2,6-Dinitrotoluene	0.0981	0.113		ug/L		115	50 - 150
2-Methylnaphthalene	0.0981	0.0954	J	ug/L		97	50 - 150
4,4'-DDD	0.0981	0.102		ug/L		104	50 - 150
4,4'-DDE	0.0981	0.0882	J	ug/L		90	50 - 150
4,4'-DDT	0.0981	0.0975	J	ug/L		99	50 - 150
Acenaphthene	0.0981	0.0849	J	ug/L		87	50 - 150
Acenaphthylene	0.0981	0.0860	J	ug/L		88	50 - 150
Acetochlor	0.0981	0.110		ug/L		113	50 - 150
Alachlor	0.0490	0.0537		ug/L		110	50 - 150
alpha-BHC	0.0981	0.0929	J	ug/L		95	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		100	50 - 150
Anthracene	0.0196	0.0229		ug/L		117	50 - 150
Atrazine	0.0490	0.0531		ug/L		108	50 - 150
Benz(a)anthracene	0.0490	0.0515		ug/L		105	50 - 150
Benzo[a]pyrene	0.0196	0.0258		ug/L		132	50 - 150
Benzo[b]fluoranthene	0.0196	0.0237		ug/L		121	50 - 150
Benzo[g,h,i]perylene	0.0490	0.0483	J	ug/L		99	50 - 150
Benzo[k]fluoranthene	0.0196	0.0246		ug/L		125	50 - 150
beta-BHC	0.0981	0.100		ug/L		102	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.628		ug/L		107	50 - 150

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

Lab Sample ID: MRL 380-196823/20-A
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromacil	0.0981	0.108		ug/L		110	50 - 150
Butachlor	0.0490	0.0571		ug/L		116	50 - 150
Butylbenzylphthalate	0.490	0.524		ug/L		107	50 - 150
Chlorobenzilate	0.0981	0.0977	J	ug/L		100	50 - 150
Chloroneb	0.0981	0.107		ug/L		109	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.0960	J	ug/L		98	50 - 150
Chlorpyrifos	0.0490	0.0638		ug/L		130	50 - 150
Chrysene	0.0196	0.0229		ug/L		117	50 - 150
delta-BHC	0.0981	0.0861	J	ug/L		88	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.666		ug/L		113	50 - 150
Dibenz(a,h)anthracene	0.0490	0.0640		ug/L		130	50 - 150
Diclorvos (DDVP)	0.0490	0.0502		ug/L		102	50 - 150
Dieldrin	0.00981	0.0110		ug/L		112	50 - 150
Diethylphthalate	0.490	0.490		ug/L		100	50 - 150
Dimethylphthalate	0.490	0.459	J	ug/L		94	50 - 150
Di-n-butyl phthalate	0.490	0.488	J	ug/L		100	49 - 243
Di-n-octyl phthalate	0.0981	0.110		ug/L		113	50 - 150
Endosulfan I (Alpha)	0.0981	0.0821	J	ug/L		84	50 - 150
Endosulfan II (Beta)	0.0981	0.0907	J	ug/L		92	50 - 150
Endosulfan sulfate	0.0981	0.102		ug/L		104	50 - 150
Endrin	0.00981	0.0108		ug/L		110	50 - 150
Endrin aldehyde	0.0981	0.0955	J	ug/L		97	50 - 150
EPTC	0.0981	0.0916	J	ug/L		93	50 - 150
Fluoranthene	0.0981	0.0945	J	ug/L		96	50 - 150
Fluorene	0.0490	<0.049		ug/L		94	50 - 150
gamma-Chlordane	0.0245	0.0225	J	ug/L		92	50 - 150
Heptachlor	0.00981	0.00752	J	ug/L		77	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.0108		ug/L		110	50 - 150
Hexachlorobenzene	0.0490	<0.040		ug/L		81	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0537		ug/L		109	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0531		ug/L		108	50 - 150
Isophorone	0.0981	0.105		ug/L		107	50 - 150
Lindane	0.00981	0.0109		ug/L		112	50 - 150
Malathion	0.0981	0.0976	J	ug/L		100	50 - 150
Methoxychlor	0.0490	0.0639		ug/L		130	50 - 150
Metolachlor	0.0490	0.0521		ug/L		106	50 - 150
Molinate	0.0981	0.0975	J	ug/L		99	50 - 150
Naphthalene	0.0981	0.112		ug/L		114	50 - 150
Parathion	0.0981	0.0891	J	ug/L		91	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.0865	J	ug/L		88	50 - 150
Phenanthrene	0.0392	0.0373	J	ug/L		95	50 - 150
Propachlor	0.0490	0.0494		ug/L		101	50 - 150
Pyrene	0.0490	0.0491		ug/L		100	50 - 150
Simazine	0.0490	0.0466	J	ug/L		95	50 - 150
Terbacil	0.0981	0.0991		ug/L		101	50 - 150
Terbuthylazine	0.0981	0.0995		ug/L		101	50 - 150
Thiobencarb	0.0981	0.100		ug/L		102	50 - 150
trans-Nonachlor	0.0245	0.0263	J	ug/L		107	50 - 150
Trifluralin	0.0981	0.0924	J	ug/L		94	50 - 150

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

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	*94*		*70 - 130*
Perylene-d12	*92*		*70 - 130*
Triphenylphosphate	*102*		*70 - 130*

Lab Sample ID: 380-190577-Q-1-A MS
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.99	1.89		ug/L		95	70 - 130
2,4'-DDD	<0.098		1.99	1.85		ug/L		93	70 - 130
2,4'-DDE	<0.098		1.99	1.84		ug/L		92	70 - 130
2,4'-DDT	<0.098		1.99	1.52		ug/L		77	70 - 130
2,4-Dinitrotoluene	<0.098		1.99	1.72		ug/L		87	70 - 130
2,6-Dinitrotoluene	<0.098		1.99	1.65		ug/L		83	70 - 130
2-Methylnaphthalene	<0.098		1.99	1.88		ug/L		95	70 - 130
4,4'-DDD	<0.098		1.99	1.76		ug/L		89	70 - 130
4,4'-DDE	<0.098		1.99	1.86		ug/L		94	70 - 130
4,4'-DDT	<0.098		1.99	1.47		ug/L		74	70 - 130
Acenaphthene	<0.098		1.99	1.97		ug/L		99	70 - 130
Acenaphthylene	<0.098		1.99	2.10		ug/L		106	70 - 130
Acetochlor	<0.098		1.99	2.09		ug/L		105	70 - 130
Alachlor	<0.049		1.99	2.33		ug/L		117	70 - 130
alpha-BHC	<0.098		1.99	2.13		ug/L		107	70 - 130
alpha-Chlordane	<0.049		1.99	1.84		ug/L		93	70 - 130
Anthracene	<0.020		1.99	1.58		ug/L		79	70 - 130
Atrazine	<0.049		1.99	1.97		ug/L		99	70 - 130
Benz(a)anthracene	<0.049		1.99	1.64		ug/L		83	70 - 130
Benzo[a]pyrene	<0.020		1.99	2.07		ug/L		104	70 - 130
Benzo[b]fluoranthene	<0.020		1.99	2.39		ug/L		120	70 - 130
Benzo[g,h,i]perylene	<0.049		1.99	1.73		ug/L		87	70 - 130
Benzo[k]fluoranthene	<0.020		1.99	2.04		ug/L		102	70 - 130
beta-BHC	<0.098		1.99	1.99		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.99	1.92		ug/L		96	70 - 130
Bromacil	<0.098	*1	1.99	1.54		ug/L		77	70 - 130
Butachlor	<0.049		1.99	2.32		ug/L		117	70 - 130
Butylbenzylphthalate	<0.49		1.99	2.34		ug/L		118	70 - 130
Chlorobenzilate	<0.098		1.99	2.09		ug/L		105	70 - 130
Chloroneb	<0.098		1.99	1.98		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.99	1.97		ug/L		99	70 - 130
Chlorpyrifos	<0.049		1.99	2.08		ug/L		105	70 - 130
Chrysene	<0.020		1.99	2.15		ug/L		108	70 - 130
delta-BHC	<0.098		1.99	2.18		ug/L		110	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.99	1.52		ug/L		77	70 - 130
Dibenz(a,h)anthracene	<0.049		1.99	1.68		ug/L		85	70 - 130
Diclorvos (DDVP)	<0.049		1.99	1.97		ug/L		99	70 - 130
Dieldrin	<0.0098		1.99	2.16		ug/L		109	70 - 130
Diethylphthalate	<0.49		1.99	2.13		ug/L		107	70 - 130
Dimethylphthalate	<0.49		1.99	2.10		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.98		3.97	4.32		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.098		1.99	1.70		ug/L		86	70 - 130

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

Lab Sample ID: 380-190577-Q-1-A MS
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan I (Alpha)	<0.098		1.99	2.00		ug/L		101	70 - 130
Endosulfan II (Beta)	<0.098		1.99	2.07		ug/L		104	70 - 130
Endosulfan sulfate	<0.098		1.99	1.96		ug/L		99	70 - 130
Endrin	<0.0098		1.99	2.27		ug/L		114	70 - 130
Endrin aldehyde	<0.098		1.99	1.45		ug/L		73	60 - 130
EPTC	<0.098		1.99	2.10		ug/L		106	70 - 130
Fluoranthene	<0.098		1.99	2.09		ug/L		105	70 - 130
Fluorene	<0.049		1.99	2.16		ug/L		109	70 - 130
gamma-Chlordane	<0.049		1.99	1.78		ug/L		90	70 - 130
Heptachlor	<0.0098		1.99	2.22		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.99	2.09		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.99	2.00		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.049		1.99	1.65		ug/L		83	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.99	1.83		ug/L		92	70 - 130
Isophorone	<0.098		1.99	1.84		ug/L		93	70 - 130
Lindane	<0.0098		1.99	2.09		ug/L		105	70 - 130
Malathion	<0.098		1.99	2.16		ug/L		109	70 - 130
Methoxychlor	<0.049	F1	1.99	2.98	F1	ug/L		150	70 - 130
Metolachlor	<0.049		1.99	2.24		ug/L		113	70 - 130
Molinate	<0.098		1.99	2.17		ug/L		109	70 - 130
Naphthalene	<0.098		1.99	1.89		ug/L		95	70 - 130
Parathion	<0.098		1.99	2.14		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.99	1.96		ug/L		98	70 - 130
Phenanthrene	<0.039		1.99	2.02		ug/L		102	70 - 130
Propachlor	<0.049		1.99	2.23		ug/L		112	70 - 130
Pyrene	<0.049		1.99	2.10		ug/L		106	70 - 130
Simazine	<0.049		1.99	1.90		ug/L		96	70 - 130
Terbacil	<0.098	*1	1.99	1.68		ug/L		85	70 - 130
Terbuthylazine	<0.098		1.99	2.13		ug/L		107	70 - 130
Thiobencarb	<0.098		1.99	2.19		ug/L		110	70 - 130
trans-Nonachlor	<0.049		1.99	1.72		ug/L		86	70 - 130
Trifluralin	<0.098		1.99	1.78		ug/L		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*94*		*70 - 130*
Perylene-d12	*95*		*70 - 130*
Triphenylphosphate	*104*		*70 - 130*

Lab Sample ID: 380-191507-A-1-B DU
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20

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

Lab Sample ID: 380-191507-A-1-B DU
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
2,6-Dinitrotoluene	<0.098			<0.098		ug/L				NC	20
2-Methylnaphthalene	<0.098			<0.098		ug/L				NC	20
4,4'-DDD	<0.098			<0.098		ug/L				NC	20
4,4'-DDE	<0.098			<0.098		ug/L				NC	20
4,4'-DDT	<0.098			<0.098		ug/L				NC	20
Acenaphthene	<0.098			<0.098		ug/L				NC	20
Acenaphthylene	<0.098			<0.098		ug/L				NC	20
Acetochlor	<0.098			<0.098		ug/L				NC	20
Alachlor	<0.049			<0.049		ug/L				NC	20
alpha-BHC	<0.098			<0.098		ug/L				NC	20
alpha-Chlordane	<0.049			<0.049		ug/L				NC	20
Anthracene	<0.020			<0.020		ug/L				NC	20
Atrazine	<0.049			<0.049		ug/L				NC	20
Benz(a)anthracene	<0.049			<0.049		ug/L				NC	20
Benzo[a]pyrene	<0.020			<0.020		ug/L				NC	20
Benzo[b]fluoranthene	<0.020			<0.020		ug/L				NC	20
Benzo[g,h,i]perylene	<0.049			<0.049		ug/L				NC	20
Benzo[k]fluoranthene	<0.020			<0.020		ug/L				NC	20
beta-BHC	<0.098			<0.098		ug/L				NC	20
Bis(2-ethylhexyl) phthalate	<0.59			<0.59		ug/L				NC	20
Bromacil	<0.098	*1		<0.098	*1	ug/L				NC	20
Butachlor	<0.049			<0.049		ug/L				NC	20
Butylbenzylphthalate	<0.49			<0.49		ug/L				NC	20
Chlorobenzilate	<0.098			<0.098		ug/L				NC	20
Chloroneb	<0.098			<0.098		ug/L				NC	20
Chlorothalonil (Draconil, Bravo)	<0.098			<0.098		ug/L				NC	20
Chlorpyrifos	<0.049			<0.049		ug/L				NC	20
Chrysene	<0.020			<0.020		ug/L				NC	20
delta-BHC	<0.098			<0.098		ug/L				NC	20
Di(2-ethylhexyl)adipate	<0.59			<0.59		ug/L				NC	20
Dibenz(a,h)anthracene	<0.049			<0.049		ug/L				NC	20
Diclorvos (DDVP)	<0.049			<0.049		ug/L				NC	20
Dieldrin	0.075			0.0654		ug/L				13	20
Diethylphthalate	<0.49			<0.49		ug/L				NC	20
Dimethylphthalate	<0.49			<0.49		ug/L				NC	20
Di-n-butyl phthalate	<0.98			<0.98		ug/L				NC	20
Di-n-octyl phthalate	<0.098			<0.098		ug/L				NC	20
Endosulfan I (Alpha)	<0.098			<0.098		ug/L				NC	20
Endosulfan II (Beta)	<0.098			<0.098		ug/L				NC	20
Endosulfan sulfate	<0.098			<0.098		ug/L				NC	20
Endrin	<0.0098			<0.0098		ug/L				NC	20
Endrin aldehyde	<0.098			<0.098		ug/L				NC	20
EPTC	<0.098			<0.098		ug/L				NC	20
Fluoranthene	<0.098			<0.098		ug/L				NC	20
Fluorene	<0.049			<0.049		ug/L				NC	20
gamma-Chlordane	<0.049			<0.049		ug/L				NC	20
Heptachlor	<0.0098			<0.0098		ug/L				NC	20
Heptachlor epoxide (isomer B)	0.013			0.0121		ug/L				6	20
Hexachlorobenzene	<0.049			<0.049		ug/L				NC	20

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

Lab Sample ID: 380-191507-A-1-B DU
Matrix: Water
Analysis Batch: 197178

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 196823

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hexachlorocyclopentadiene	<0.049			<0.049		ug/L				NC	20
Indeno[1,2,3-cd]pyrene	<0.049			<0.049		ug/L				NC	20
Isophorone	<0.098			<0.098		ug/L				NC	20
Lindane	<0.0098			<0.0098		ug/L				NC	20
Malathion	<0.098			<0.098		ug/L				NC	20
Methoxychlor	<0.049			<0.049		ug/L				NC	20
Metolachlor	<0.049			<0.049		ug/L				NC	20
Molinate	<0.098			<0.098		ug/L				NC	20
Naphthalene	<0.098			<0.098		ug/L				NC	20
Parathion	<0.098			<0.098		ug/L				NC	20
Pendimethalin (Penoxaline)	<0.098			<0.098		ug/L				NC	20
Phenanthrene	<0.039			<0.039		ug/L				NC	20
Propachlor	<0.049			<0.049		ug/L				NC	20
Pyrene	<0.049			<0.049		ug/L				NC	20
Simazine	<0.049			<0.049		ug/L				NC	20
Terbacil	<0.098	*1		<0.098	*1	ug/L				NC	20
Terbuthylazine	<0.098			<0.098		ug/L				NC	20
Thiobencarb	<0.098			<0.098		ug/L				NC	20
Total Permethrin (mixed isomers)	<0.20			<0.20		ug/L				NC	20
trans-Nonachlor	<0.049			<0.049		ug/L				NC	20
Trifluralin	<0.098			<0.098		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*93*		*70 - 130*
Perylene-d12	*68*	*S1-*	*70 - 130*
Triphenylphosphate	*101*		*70 - 130*

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

Lab Sample ID: MB 570-681837/1-A
Matrix: Water
Analysis Batch: 683755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 681837

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/13/26 12:59*	*01/18/26 09:21*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*33 - 139*	*01/13/26 12:59*	*01/18/26 09:21*	*1*
2-Fluorobiphenyl (Surr)	*79*		*33 - 126*	*01/13/26 12:59*	*01/18/26 09:21*	*1*
2-Fluorophenol (Surr)	*57*		*12 - 120*	*01/13/26 12:59*	*01/18/26 09:21*	*1*
Nitrobenzene-d5 (Surr)	*88*		*36 - 120*	*01/13/26 12:59*	*01/18/26 09:21*	*1*
Phenol-d6 (Surr)	*37*		*10 - 120*	*01/13/26 12:59*	*01/18/26 09:21*	*1*
p-Terphenyl-d14 (Surr)	*80*		*47 - 131*	*01/13/26 12:59*	*01/18/26 09:21*	*1*

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

Lab Sample ID: MB 570-681837/1-A
Matrix: Water
Analysis Batch: 682796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 681837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
2-Methylnaphthalene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Acenaphthene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Acenaphthylene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Anthracene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Benzo[a]anthracene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Benzo[a]pyrene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Chrysene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Fluoranthene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Fluorene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Naphthalene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Phenanthrene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1
Pyrene	<0.20		0.20		ug/L		01/13/26 12:59	01/15/26 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*28 - 127*	*01/13/26 12:59*	*01/15/26 12:15*	*1*
2-Fluorobiphenyl (Surr)	*79*		*31 - 120*	*01/13/26 12:59*	*01/15/26 12:15*	*1*
2-Fluorophenol (Surr)	*56*		*17 - 120*	*01/13/26 12:59*	*01/15/26 12:15*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 120*	*01/13/26 12:59*	*01/15/26 12:15*	*1*
Phenol-d6 (Surr)	*37*		*10 - 120*	*01/13/26 12:59*	*01/15/26 12:15*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 120*	*01/13/26 12:59*	*01/15/26 12:15*	*1*

Lab Sample ID: LCS 570-681837/2-A
Matrix: Water
Analysis Batch: 682796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.1		ug/L		90	47 - 120
2-Methylnaphthalene	20.0	17.8		ug/L		89	43 - 120
Acenaphthene	20.0	17.9		ug/L		89	60 - 132
Acenaphthylene	20.0	18.0		ug/L		90	54 - 126
Anthracene	20.0	17.6		ug/L		88	43 - 120
Benzo[a]anthracene	20.0	18.6		ug/L		93	42 - 133
Benzo[a]pyrene	20.0	19.3		ug/L		97	32 - 148
Benzo[b]fluoranthene	20.0	18.5		ug/L		93	42 - 140
Benzo[g,h,i]perylene	20.0	18.1		ug/L		91	1 - 195
Benzo[k]fluoranthene	20.0	18.1		ug/L		91	25 - 146
Chrysene	20.0	18.0		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	19.0		ug/L		95	1 - 200
Fluoranthene	20.0	18.8		ug/L		94	43 - 121
Fluorene	20.0	18.1		ug/L		90	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.1		ug/L		95	1 - 151
Naphthalene	20.0	17.9		ug/L		89	36 - 120

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

Lab Sample ID: LCS 570-681837/2-A
Matrix: Water
Analysis Batch: 682796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenanthrene			20.0	18.0		ug/L		90	65 - 120		
Pyrene			20.0	19.2		ug/L		96	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*28 - 127*
2-Fluorobiphenyl (Surr)	*83*		*31 - 120*
2-Fluorophenol (Surr)	*63*		*17 120*
Nitrobenzene-d5 (Surr)	*85*		*27 - 120*
Phenol-d6 (Surr)	*41*		*10 - 120*
p-Terphenyl-d14 (Surr)	*90*		*45 - 120*

Lab Sample ID: LCSD 570-681837/3-A
Matrix: Water
Analysis Batch: 682796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 681837

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			20.0	19.3		ug/L		97	47 - 120	7	20
2-Methylnaphthalene			20.0	18.8		ug/L		94	43 - 120	5	20
Acenaphthene			20.0	18.9		ug/L		95	60 - 132	6	29
Acenaphthylene			20.0	18.6		ug/L		93	54 - 126	3	45
Anthracene			20.0	18.7		ug/L		94	43 - 120	6	40
Benzo[a]anthracene			20.0	19.3		ug/L		96	42 - 133	3	32
Benzo[a]pyrene			20.0	19.3		ug/L		97	32 - 148	0	43
Benzo[b]fluoranthene			20.0	19.0		ug/L		95	42 - 140	2	43
Benzo[g,h,i]perylene			20.0	18.6		ug/L		93	1 - 195	3	61
Benzo[k]fluoranthene			20.0	18.2		ug/L		91	25 - 146	0	38
Chrysene			20.0	18.3		ug/L		92	44 - 140	2	53
Dibenz(a,h)anthracene			20.0	19.4		ug/L		97	1 - 200	2	75
Fluoranthene			20.0	19.6		ug/L		98	43 - 121	4	40
Fluorene			20.0	19.0		ug/L		95	70 - 120	5	23
Indeno[1,2,3-cd]pyrene			20.0	19.7		ug/L		98	1 - 151	3	60
Naphthalene			20.0	18.8		ug/L		94	36 - 120	5	39
Phenanthrene			20.0	19.0		ug/L		95	65 - 120	5	24
Pyrene			20.0	19.8		ug/L		99	70 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*99*		*28 - 127*
2-Fluorobiphenyl (Surr)	*87*		*31 - 120*
2-Fluorophenol (Surr)	*65*		*17 - 120*
Nitrobenzene-d5 (Surr)	*92*		*27 - 120*
Phenol-d6 (Surr)	*43*		*10 - 120*
p-Terphenyl-d14 (Surr)	*93*		*45 - 120*

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

Lab Sample ID: MB 570-680870/12
Matrix: Water
Analysis Batch: 680870

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			01/10/26 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*38 - 134*		*01/10/26 16:12*	*1*

Lab Sample ID: LCS 570-680870/1010
Matrix: Water
Analysis Batch: 680870

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			400	382		ug/L		96	78 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*38 - 134*

Lab Sample ID: LCSD 570-680870/11
Matrix: Water
Analysis Batch: 680870

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	384		ug/L		96	78 - 120	0	10

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

Lab Sample ID: MRL 570-680870/13
Matrix: Water
Analysis Batch: 680870

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	13.1		ug/L		131	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*38 - 134*

Lab Sample ID: 570-262565-N-1 MS
Matrix: Water
Analysis Batch: 680870

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	360		ug/L		90	68 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*

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

Lab Sample ID: 570-262565-O-1 MSD
Matrix: Water
Analysis Batch: 680870

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	354		ug/L		89	68 - 122	2	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*

Lab Sample ID: MB 570-682005/8
Matrix: Water
Analysis Batch: 682005

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			01/13/26 22:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*38 - 134*		*01/13/26 22:38*	*1*

Lab Sample ID: LCS 570-682005/4
Matrix: Water
Analysis Batch: 682005

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			400	354		ug/L		89	78 - 120		

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

Lab Sample ID: LCSD 570-682005/5
Matrix: Water
Analysis Batch: 682005

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	393		ug/L		98	78 - 120	10	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*38 - 134*

Lab Sample ID: MRL 570-682005/3
Matrix: Water
Analysis Batch: 682005

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

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

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*38 - 134*

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

Lab Sample ID: MB 570-681284/1-A
Matrix: Water
Analysis Batch: 682292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 681284

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		01/12/26 11:15	01/14/26 17:22	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		01/12/26 11:15	01/14/26 17:22	1
C8-C18	<25		25		ug/L		01/12/26 11:15	01/14/26 17:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*119*		*60 - 130*	*01/12/26 11:15*	*01/14/26 17:22*	*1*

Lab Sample ID: LCS 570-681284/2-A
Matrix: Water
Analysis Batch: 682292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1500		ug/L		94	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*112*		*60 - 130*

Lab Sample ID: LCSD 570-681284/3-A
Matrix: Water
Analysis Batch: 682292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 681284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1530		ug/L		96	56 - 127	2	23

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

Lab Sample ID: MRL 570-681284/4-A
Matrix: Water
Analysis Batch: 682292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681284

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0310	^3+	mg/L		155	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*109*		*60 - 130*

QC Association Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

GC/MS Semi VOA

Prep Batch: 196823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	525.2	
MB 380-196823/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-196823/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-196823/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-196823/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-190577-Q-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-191507-A-1-B DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 197178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	525.2	196823
MB 380-196823/19-A	Method Blank	Total/NA	Water	525.2	196823
LCS 380-196823/21-A	Lab Control Sample	Total/NA	Water	525.2	196823
LCSD 380-196823/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	196823
MRL 380-196823/20-A	Lab Control Sample	Total/NA	Water	525.2	196823
380-190577-Q-1-A MS	Matrix Spike	Total/NA	Water	525.2	196823
380-191507-A-1-B DU	Duplicate	Total/NA	Water	525.2	196823

Prep Batch: 681837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	625.1	
MB 570-681837/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-681837/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-681837/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 682796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	625.1 SIM	681837
MB 570-681837/1-A	Method Blank	Total/NA	Water	625.1 SIM	681837
LCS 570-681837/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	681837
LCSD 570-681837/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	681837

Analysis Batch: 683755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	625.1	681837
MB 570-681837/1-A	Method Blank	Total/NA	Water	625.1	681837

GC VOA

Analysis Batch: 680870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	8015B GRO LL	
MB 570-680870/12	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-680870/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-680870/11	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-680870/13	Lab Control Sample	Total/NA	Water	8015B GRO LL	
570-262565-N-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
570-262565-O-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

GC VOA

Analysis Batch: 682005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-2	TB: MOANALUA WELL P1	Total/NA	Water	8015B GRO LL	
MB 570-682005/8	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-682005/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-682005/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-682005/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 681284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	3510C	
MB 570-681284/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-681284/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-681284/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-681284/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 682292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191508-1	MOANALUA WELL P1	Total/NA	Water	8015B	681284
MB 570-681284/1-A	Method Blank	Total/NA	Water	8015B	681284
LCS 570-681284/2-A	Lab Control Sample	Total/NA	Water	8015B	681284
LCSD 570-681284/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	681284
MRL 570-681284/4-A	Lab Control Sample	Total/NA	Water	8015B	681284

Lab Chronicle

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

Client Sample ID: MOANALUA WELL P1

Lab Sample ID: 380-191508-1

Date Collected: 01/07/26 11:30

Matrix: Water

Date Received: 01/09/26 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			196823	IQ42	EA POM	01/09/26 14:31
Total/NA	Analysis	525.2		1	197178	UPAC	EA POM	01/12/26 17:07
Total/NA	Prep	625.1			681837	VAW2	EET CAL 4	01/13/26 12:59
Total/NA	Analysis	625.1		1	683755	PQS1	EET CAL 4	01/18/26 10:09
Total/NA	Prep	625.1			681837	VAW2	EET CAL 4	01/13/26 12:59
Total/NA	Analysis	625.1 SIM		1	682796	PQS1	EET CAL 4	01/15/26 11:10
Total/NA	Analysis	8015B GRO LL		1	680870	YD9V	EET CAL 4	01/10/26 20:49
Total/NA	Prep	3510C			681284	TVD6	EET CAL 4	01/12/26 11:16
Total/NA	Analysis	8015B		1	682292	TR8L	EET CAL 4	01/14/26 19:10

Client Sample ID: TB: MOANALUA WELL P1

Lab Sample ID: 380-191508-2

Date Collected: 01/07/26 11:30

Matrix: Water

Date Received: 01/09/26 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	682005	AJG4	EET CAL 4	01/14/26 01:29

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: 380-191508-1
SDG: Weekly: Moanalua Well P1

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	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525 2	525 2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbuthylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

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

Accreditation/Certification Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

Laboratory: Eurofins Calscience (Continued)

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

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

Method Summary

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

Job ID: 380-191508-1
SDG: Weekly: Moanalua Well P1

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: 380-191508-1
SDG: Weekly: Moanalua Well P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-191508-1	MOANALUA WELL P1	Water	01/07/26 11:30	01/09/26 10:02	Hawaii
380-191508-2	TB: MOANALUA WELL P1	Water	01/07/26 11:30	01/09/26 10:02	Hawaii

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Rakofsky	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-28005-2757 1
Client Contact: Mr Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5840 (Tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1_BIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_C9 - HNL Ranges: C10-C24/C24-C36/C9-C18	625.2_PREC - (MOD) 625plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes								Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I									
Moanalua Well P1	7-Jan-2026	1150	G	Water			2	3	2	2											
TB: Moanalua Well P1	7-Jan-2026	V	G	Water				2													

380 191508 COC

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED: 8877 4264 1955

	Relinquished [redacted]	Date/Time: 1/8/26 1100	Company: HBWS	Received by:	Date/Time: 1/9/26 1002	Company: EEAP
	Relinquished	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: (631A) 2.3 / 2.3 Gel frozen

Ver: 04/02/2024

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

Chain of Custody Record

eurofins | Env

Loc: 380
191508

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-293461.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State - Hawaii		Job #: 380-191508-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 1/22/2026			
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MOANALUA WELL P1 (380-191508-1)	1/7/26	11:30 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: MOANALUA WELL P1 (380-191508-2)	1/7/26	11:30 Hawaiian	G	Water				X		2	MRLs are needed.

380-191508 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater West, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater West, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater West, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater West, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/9/26 1530	ESD		1/9/26 1530	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2/0.9 IR-1

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-191508-1
SDG Number: Weekly: Moanalua Well P1

Login Number: 191508
List Number: 1
Creator: Hernandez, Orlando

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-191508-1
SDG Number: Weekly: Moanalua Well P1

Login Number: 191508
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 01/09/26 05:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	