

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Moanalua Wells
RUSH Weekly Red Hill

JOB NUMBER

380-180065-1

Eurofins Eaton Analytical 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 Eaton Analytical, LLC Project Manager.

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^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

Case Narrative

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

Job ID: 380-180065-1

Job ID: 380-180065-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-180065-1

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 10/30/2025 10:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5°C, 4.9°C and 5.7°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

Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-649949 and analytical batch 570-654466 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.

Method: 8015B_DRO_LL_CS

Method 8015B_DRO_LL_CS: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), laboratory control sample duplicate (LCSD), matrix spike (MS), and matrix spike duplicate (MSD) associated with preparation batch 570-649949 and analytical batch 570-654466. Percent recoveries are based on the amount spiked.

Method: 8015B_DRO_LL_CS

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: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.026		0.0098	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-180065-2

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: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1

Date Collected: 10/28/25 10:57

Matrix: Drinking Water

Date Received: 10/30/25 10:36

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		11/05/25 10:31	11/06/25 13:22	1
2,4'-DDD	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
2,4'-DDE	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
2,4'-DDT	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
2-Methylnaphthalene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
4,4'-DDD	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
4,4'-DDE	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
4,4'-DDT	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Acenaphthene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Acenaphthylene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Acetochlor	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Alachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
alpha-BHC	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
alpha-Chlordane	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Anthracene	<0.020		0.020	ug/L		11/05/25 10:31	11/06/25 13:22	1
Atrazine	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Benz(a)anthracene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Benzo[a]pyrene	<0.020		0.020	ug/L		11/05/25 10:31	11/06/25 13:22	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		11/05/25 10:31	11/06/25 13:22	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		11/05/25 10:31	11/06/25 13:22	1
beta-BHC	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		11/05/25 10:31	11/06/25 13:22	1
Bromacil	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Butachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Butylbenzylphthalate	<0.49		0.49	ug/L		11/05/25 10:31	11/06/25 13:22	1
Chlorobenzilate	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Chloroneb	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Chlorpyrifos	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Chrysene	<0.020		0.020	ug/L		11/05/25 10:31	11/06/25 13:22	1
delta-BHC	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		11/05/25 10:31	11/06/25 13:22	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Dieldrin	0.026		0.0098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Diethylphthalate	<0.49		0.49	ug/L		11/05/25 10:31	11/06/25 13:22	1
Dimethylphthalate	<0.49		0.49	ug/L		11/05/25 10:31	11/06/25 13:22	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		11/05/25 10:31	11/06/25 13:22	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Endosulfan sulfate	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Endrin	<0.0098		0.0098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Endrin aldehyde	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
EPTC	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Fluoranthene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1

Client Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1

Date Collected: 10/28/25 10:57

Matrix: Drinking Water

Date Received: 10/30/25 10:36

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		11/05/25 10:31	11/06/25 13:22	1
gamma-Chlordane	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Heptachlor	<0.0098		0.0098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Heptachlor epoxide (isomer B)	<0.0098	^3+	0.0098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Hexachlorobenzene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Isophorone	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Lindane	<0.0098		0.0098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Malathion	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Methoxychlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Metolachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Molinate	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Naphthalene	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Parathion	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Phenanthrene	<0.039		0.039	ug/L		11/05/25 10:31	11/06/25 13:22	1
Propachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Pyrene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Simazine	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Terbacil	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Terbutylazine	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Thiobencarb	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		11/05/25 10:31	11/06/25 13:22	1
trans-Nonachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 13:22	1
Trifluralin	<0.098		0.098	ug/L		11/05/25 10:31	11/06/25 13:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/05/25 10:31	11/06/25 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	11/05/25 10:31	11/06/25 13:22	1
Perylene-d12	87		70 - 130	11/05/25 10:31	11/06/25 13:22	1
Triphenylphosphate	103		70 - 130	11/05/25 10:31	11/06/25 13:22	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		10/31/25 08:18	11/14/25 05:21	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Acenaphthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Acenaphthylene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Anthracene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Chrysene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Fluoranthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1

Date Collected: 10/28/25 10:57

Matrix: Drinking Water

Date Received: 10/30/25 10:36

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		10/31/25 08:18	11/14/25 05:21	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Naphthalene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Phenanthrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1
Pyrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		28 - 127	10/31/25 08:18	11/14/25 05:21	1
2-Fluorobiphenyl (Surr)	67		31 - 120	10/31/25 08:18	11/14/25 05:21	1
2-Fluorophenol (Surr)	42		17 - 120	10/31/25 08:18	11/14/25 05:21	1
Nitrobenzene-d5 (Surr)	65		27 - 120	10/31/25 08:18	11/14/25 05:21	1
Phenol-d6 (Surr)	26		10 - 120	10/31/25 08:18	11/14/25 05:21	1
p-Terphenyl-d14 (Surr)	76		45 - 120	10/31/25 08:18	11/14/25 05:21	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
3-Penten-2-one, 4-methyl-	12	T J N	ug/L		1.92	141-79-7	10/31/25 08:18	11/17/25 17:17	1
Pyridine, 2-fluoro-	11	T J N	ug/L		2.80	372-48-5	10/31/25 08:18	11/17/25 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	10/31/25 08:18	11/17/25 17:17	1
2-Fluorobiphenyl (Surr)	85		33 - 126	10/31/25 08:18	11/17/25 17:17	1
2-Fluorophenol (Surr)	49		12 - 120	10/31/25 08:18	11/17/25 17:17	1
Nitrobenzene-d5 (Surr)	80		36 - 120	10/31/25 08:18	11/17/25 17:17	1
Phenol-d6 (Surr)	29		10 - 120	10/31/25 08:18	11/17/25 17:17	1
p-Terphenyl-d14 (Surr)	81		47 - 131	10/31/25 08:18	11/17/25 17:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			11/08/25 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134		11/08/25 17:37	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		11/02/25 11:32	11/11/25 16:14	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		11/02/25 11:32	11/11/25 16:14	1
C8-C18	<26		26	ug/L		11/02/25 11:32	11/11/25 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		60 - 130	11/02/25 11:32	11/11/25 16:14	1

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

Lab Sample ID: 380-180065-2

Date Collected: 10/28/25 10:57

Matrix: Water

Date Received: 10/30/25 10:36

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			11/08/25 15:25	1

Client Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-2

Date Collected: 10/28/25 10:57

Matrix: Water

Date Received: 10/30/25 10:36

<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)	98		38 - 134		11/08/25 15:25	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: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		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	^3+	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: 380-180065-1
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)
380-180065-1	MOANALUA WELLS (331-223-T	101	87	103
380-180065-1 DU	MOANALUA WELLS (331-223-TP202)	103	88	104

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)
380-180061-I-1-A MS	Matrix Spike	102	96	108
LCS 380-184576/22-A	Lab Control Sample	102	96	109
MB 380-184576/20-A	Method Blank	101	84	99
MRL 380-184641/21-A	Lab Control Sample	95	93	94

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)
380-180065-1	MOANALUA WELLS (331-223-T	79	85	49	80	29	81

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

Method: 625.1 - 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 570-649162/1-A	Method Blank	81	84	53	87	32	82

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

Surrogate Summary

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

Job ID: 380-180065-1
 SDG: Weekly: Moanalua Wells

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-180065-1	MOANALUA WELLS (331-223-T	64	67	42	65	26	76

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)
380-179754-A-1-A MS	Matrix Spike	75	74	53	65	35	82
380-179754-A-1-B MSD	Matrix Spike Duplicate	67	64	47	59	30	73
LCS 570-649162/2-A	Lab Control Sample	72	70	51	64	33	77
MB 570-649162/1-A	Method Blank	57	56	36	58	25	67

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)
LCSD 570-649162/3-A	Lab Control Sample Dup						

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: 380-180065-1
 SDG: Weekly: Moanalua Wells

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-180065-1	MOANALUA WELLS (331-223-T	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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)
380-180065-2	TB: MOANALUA WELLS (331-2	98
380-181052-C-1 MS	Matrix Spike	98
380-181052-C-1 MSD	Matrix Spike Duplicate	94
LCS 570-653207/4	Lab Control Sample	92
LCSD 570-653207/5	Lab Control Sample Dup	98
MB 570-653207/6	Method Blank	95
MRL 570-653207/3	Lab Control Sample	91

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)
380-180065-1	MOANALUA WELLS (331-223-T	118

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)
380-179754-C-1-A MS	Matrix Spike	125
380-179754-C-1-B MSD	Matrix Spike Duplicate	125
LCS 570-649949/2-A	Lab Control Sample	123
LCSD 570-649949/3-A	Lab Control Sample Dup	115
MB 570-649949/1-A	Method Blank	105
MRL 570-649949/4-A	Lab Control Sample	127

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-180065-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-184576/20-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184576

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4'-DDD	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4'-DDE	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4'-DDT	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
2-Methylnaphthalene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
4,4'-DDD	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
4,4'-DDE	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
4,4'-DDT	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Acenaphthene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Acenaphthylene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Acetochlor	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Alachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
alpha-BHC	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
alpha-Chlordane	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Anthracene	<0.019		0.019	ug/L		11/05/25 10:31	11/06/25 11:40	1
Atrazine	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Benz(a)anthracene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[a]pyrene	<0.019		0.019	ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		11/05/25 10:31	11/06/25 11:40	1
beta-BHC	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		11/05/25 10:31	11/06/25 11:40	1
Bromacil	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Butachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Butylbenzylphthalate	<0.49		0.49	ug/L		11/05/25 10:31	11/06/25 11:40	1
Chlorobenzilate	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Chloroneb	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Chlorpyrifos	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Chrysene	<0.019		0.019	ug/L		11/05/25 10:31	11/06/25 11:40	1
delta-BHC	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		11/05/25 10:31	11/06/25 11:40	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Dieldrin	<0.0097		0.0097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Diethylphthalate	<0.49		0.49	ug/L		11/05/25 10:31	11/06/25 11:40	1
Dimethylphthalate	<0.49		0.49	ug/L		11/05/25 10:31	11/06/25 11:40	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		11/05/25 10:31	11/06/25 11:40	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Endosulfan sulfate	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Endrin	<0.0097		0.0097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Endrin aldehyde	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
EPTC	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1

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QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-184576/20-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184576

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Fluorene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
gamma-Chlordane	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Heptachlor	<0.0097		0.0097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Heptachlor epoxide (isomer B)	<0.0097	^3+	0.0097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Hexachlorobenzene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Isophorone	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Lindane	<0.0097		0.0097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Malathion	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Methoxychlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Metolachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Molinate	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Naphthalene	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Parathion	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Phenanthrene	<0.039		0.039	ug/L		11/05/25 10:31	11/06/25 11:40	1
Propachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Pyrene	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Simazine	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Terbacil	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Terbutylazine	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Thiobencarb	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		11/05/25 10:31	11/06/25 11:40	1
trans-Nonachlor	<0.049		0.049	ug/L		11/05/25 10:31	11/06/25 11:40	1
Trifluralin	<0.097		0.097	ug/L		11/05/25 10:31	11/06/25 11:40	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-	1.18	T J N	ug/L		2.56	1000154-28-6	11/05/25 10:31	11/06/25 11:40	1
Undecane	2.85	T J N	ug/L		3.16	1120-21-4	11/05/25 10:31	11/06/25 11:40	1
Cyclopentasiloxane, decamethyl-	0.498	T J N	ug/L		3.29	541-02-6	11/05/25 10:31	11/06/25 11:40	1
Unknown	0.705	T J	ug/L		3.91	N/A	11/05/25 10:31	11/06/25 11:40	1
9-Octadecenamide, (Z)-	1.27	T J N	ug/L		7.93	301-02-0	11/05/25 10:31	11/06/25 11:40	1
Unknown	0.684	T J	ug/L		15.03	N/A	11/05/25 10:31	11/06/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	11/05/25 10:31	11/06/25 11:40	1
Perylene-d12	84		70 - 130	11/05/25 10:31	11/06/25 11:40	1
Triphenylphosphate	99		70 - 130	11/05/25 10:31	11/06/25 11:40	1

Lab Sample ID: LCS 380-184576/22-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.90		ug/L		98	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-184576/22-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.95	2.03		ug/L		104	70 - 130
2,4'-DDE	1.95	2.10		ug/L		108	70 - 130
2,4'-DDT	1.95	1.93		ug/L		99	70 - 130
2,4-Dinitrotoluene	1.95	2.05		ug/L		106	70 - 130
2,6-Dinitrotoluene	1.95	2.03		ug/L		104	70 - 130
2-Methylnaphthalene	1.95	1.92		ug/L		99	70 - 130
4,4'-DDD	1.95	2.05		ug/L		105	70 - 130
4,4'-DDE	1.95	2.01		ug/L		103	70 - 130
4,4'-DDT	1.95	2.01		ug/L		103	70 - 130
Acenaphthene	1.95	2.00		ug/L		103	70 - 130
Acenaphthylene	1.95	2.00		ug/L		103	70 - 130
Acetochlor	1.95	2.23		ug/L		115	70 - 130
Alachlor	1.95	1.94		ug/L		100	70 - 130
alpha-BHC	1.95	1.93		ug/L		99	70 - 130
alpha-Chlordane	1.95	1.89		ug/L		97	70 - 130
Anthracene	1.95	1.80		ug/L		92	70 - 130
Atrazine	1.95	2.25		ug/L		116	70 - 130
Benz(a)anthracene	1.95	1.99		ug/L		102	70 - 130
Benzo[a]pyrene	1.95	2.04		ug/L		105	70 - 130
Benzo[b]fluoranthene	1.95	2.05		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.95	2.04		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.95	1.97		ug/L		101	70 - 130
beta-BHC	1.95	2.25		ug/L		116	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.42		ug/L		124	70 - 130
Bromacil	1.95	2.15		ug/L		110	70 - 130
Butachlor	1.95	2.01		ug/L		103	70 - 130
Butylbenzylphthalate	1.95	2.32		ug/L		119	70 - 130
Chlorobenzilate	1.95	2.42		ug/L		124	70 - 130
Chloroneb	1.95	1.99		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.20		ug/L		113	70 - 130
Chlorpyrifos	1.95	1.98		ug/L		101	70 - 130
Chrysene	1.95	1.84		ug/L		94	70 - 130
delta-BHC	1.95	1.93		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.28		ug/L		117	70 - 130
Dibenz(a,h)anthracene	1.95	1.98		ug/L		102	70 - 130
Diclorvos (DDVP)	1.95	2.16		ug/L		111	70 - 130
Dieldrin	1.95	1.97		ug/L		101	70 - 130
Diethylphthalate	1.95	2.20		ug/L		113	70 - 130
Dimethylphthalate	1.95	2.08		ug/L		107	70 - 130
Di-n-butyl phthalate	3.89	4.47		ug/L		115	70 - 130
Di-n-octyl phthalate	1.95	2.15		ug/L		111	70 - 130
Endosulfan I (Alpha)	1.95	2.04		ug/L		105	70 - 130
Endosulfan II (Beta)	1.95	2.04		ug/L		105	70 - 130
Endosulfan sulfate	1.95	2.10		ug/L		108	70 - 130
Endrin	1.95	2.04		ug/L		105	70 - 130
Endrin aldehyde	1.95	2.13		ug/L		110	60 - 130
EPTC	1.95	2.21		ug/L		113	70 - 130
Fluoranthene	1.95	2.13		ug/L		109	70 - 130
Fluorene	1.95	1.82		ug/L		93	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-184576/22-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.95	1.91		ug/L		98	70 - 130
Heptachlor	1.95	2.11		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.90	^3+	ug/L		98	70 - 130
Hexachlorobenzene	1.95	2.05		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.95	1.98		ug/L		102	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.07		ug/L		106	70 - 130
Isophorone	1.95	2.08		ug/L		107	70 - 130
Lindane	1.95	2.18		ug/L		112	70 - 130
Malathion	1.95	2.09		ug/L		107	70 - 130
Methoxychlor	1.95	2.10		ug/L		108	70 - 130
Metolachlor	1.95	1.90		ug/L		98	70 - 130
Molinate	1.95	2.24		ug/L		115	70 - 130
Naphthalene	1.95	1.99		ug/L		102	70 - 130
Parathion	1.95	2.35		ug/L		121	70 - 130
Pendimethalin (Penoxaline)	1.95	2.06		ug/L		106	70 - 130
Phenanthrene	1.95	1.92		ug/L		98	70 - 130
Propachlor	1.95	2.30		ug/L		118	70 - 130
Pyrene	1.95	2.20		ug/L		113	70 - 130
Simazine	1.95	2.08		ug/L		107	70 - 130
Terbacil	1.95	2.34		ug/L		120	70 - 130
Terbutylazine	1.95	2.29		ug/L		118	70 - 130
Thiobencarb	1.95	2.15		ug/L		111	70 - 130
trans-Nonachlor	1.95	1.79		ug/L		92	70 - 130
Trifluralin	1.95	2.09		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-180061-I-1-A MS
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.90		ug/L		97	70 - 130
2,4'-DDD	<0.097		1.94	2.01		ug/L		104	70 - 130
2,4'-DDE	<0.097		1.94	2.08		ug/L		107	70 - 130
2,4'-DDT	<0.097		1.94	1.93		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	2.09		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	2.07		ug/L		107	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.94		ug/L		99	70 - 130
4,4'-DDD	<0.097		1.94	2.07		ug/L		106	70 - 130
4,4'-DDE	<0.097		1.94	1.92		ug/L		99	70 - 130
4,4'-DDT	<0.097		1.94	1.97		ug/L		101	70 - 130
Acenaphthene	<0.097		1.94	1.96		ug/L		101	70 - 130
Acenaphthylene	<0.097		1.94	1.99		ug/L		102	70 - 130
Acetochlor	<0.097		1.94	2.09		ug/L		108	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180061-I-1-A MS
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Alachlor	<0.048		1.94	1.92		ug/L		99	70 - 130
alpha-BHC	<0.097		1.94	1.86		ug/L		95	70 - 130
alpha-Chlordane	<0.048		1.94	1.88		ug/L		97	70 - 130
Anthracene	<0.019	F1	1.94	1.13	F1	ug/L		58	70 - 130
Atrazine	<0.048		1.94	2.18		ug/L		112	70 - 130
Benz(a)anthracene	<0.048		1.94	1.87		ug/L		96	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.82		ug/L		94	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.22		ug/L		114	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	2.03		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.00		ug/L		103	70 - 130
beta-BHC	<0.097		1.94	2.18		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.38		ug/L		123	70 - 130
Bromacil	<0.097		1.94	2.09		ug/L		107	70 - 130
Butachlor	<0.048		1.94	2.03		ug/L		104	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.28		ug/L		117	70 - 130
Chlorobenzilate	<0.097		1.94	2.46		ug/L		127	70 - 130
Chloroneb	<0.097		1.94	1.92		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.15		ug/L		111	70 - 130
Chlorpyrifos	<0.048		1.94	2.03		ug/L		104	70 - 130
Chrysene	<0.019		1.94	1.92		ug/L		99	70 - 130
delta-BHC	<0.097		1.94	1.87		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.17		ug/L		112	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.97		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.15		ug/L		111	70 - 130
Dieldrin	<0.0097		1.94	1.92		ug/L		99	70 - 130
Diethylphthalate	<0.48		1.94	2.14		ug/L		110	70 - 130
Dimethylphthalate	<0.48		1.94	2.02		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.97		3.89	4.40		ug/L		113	70 - 130
Di-n-octyl phthalate	<0.097		1.94	2.10		ug/L		108	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	2.02		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.097		1.94	2.01		ug/L		103	70 - 130
Endosulfan sulfate	<0.097		1.94	2.10		ug/L		108	70 - 130
Endrin	<0.0097		1.94	1.99		ug/L		102	70 - 130
Endrin aldehyde	<0.097		1.94	1.91		ug/L		98	60 - 130
EPTC	<0.097		1.94	2.15		ug/L		111	70 - 130
Fluoranthene	<0.097		1.94	2.19		ug/L		113	70 - 130
Fluorene	<0.048		1.94	1.83		ug/L		94	70 - 130
gamma-Chlordane	<0.048		1.94	1.91		ug/L		98	70 - 130
Heptachlor	<0.0097		1.94	2.13		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	<0.0097	^3+	1.94	1.83		ug/L		94	70 - 130
Hexachlorobenzene	<0.048		1.94	2.03		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.07		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.14		ug/L		110	70 - 130
Isophorone	<0.097		1.94	2.11		ug/L		109	70 - 130
Lindane	<0.0097		1.94	2.14		ug/L		110	70 - 130
Malathion	<0.097		1.94	2.11		ug/L		109	70 - 130
Methoxychlor	<0.048		1.94	2.20		ug/L		113	70 - 130
Metolachlor	<0.048		1.94	1.89		ug/L		97	70 - 130
Molinate	<0.097		1.94	2.19		ug/L		113	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1 DU
Matrix: Drinking Water
Analysis Batch: 184792

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Bromacil	<0.098		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.098		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	0.026		0.0217		ug/L		17	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098	^3+	<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.098		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1 DU
Matrix: Drinking Water
Analysis Batch: 184792

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Trifluralin	<0.098		<0.097		ug/L		NC	20
DU DU								
Surrogate	%Recovery	Qualifier	Limits					
2-Nitro-m-xylene	103		70 - 130					
Perylene-d12	88		70 - 130					
Triphenylphosphate	104		70 - 130					

Lab Sample ID: MRL 380-184641/21-A
Matrix: Water
Analysis Batch: 184796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184641

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	0.0984	0.118		ug/L		120	50 - 150
2,4'-DDD	0.0984	0.0825	J	ug/L		84	50 - 150
2,4'-DDE	0.0984	0.102		ug/L		104	50 - 150
2,4'-DDT	0.0984	0.102		ug/L		104	50 - 150
2,4-Dinitrotoluene	0.0984	0.105		ug/L		106	50 - 150
2,6-Dinitrotoluene	0.0984	0.126		ug/L		128	50 - 150
2-Methylnaphthalene	0.0984	0.113		ug/L		114	50 - 150
4,4'-DDD	0.0984	0.0908	J	ug/L		92	50 - 150
4,4'-DDE	0.0984	0.112		ug/L		114	50 - 150
4,4'-DDT	0.0984	0.105		ug/L		107	50 - 150
Acenaphthene	0.0984	0.0975	J	ug/L		99	50 - 150
Acenaphthylene	0.0984	0.0947	J	ug/L		96	50 - 150
Acetochlor	0.0984	0.122		ug/L		124	50 - 150
Alachlor	0.0492	0.0633		ug/L		129	50 - 150
alpha-BHC	0.0984	0.101		ug/L		103	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		94	50 - 150
Anthracene	0.0197	0.0208		ug/L		106	50 - 150
Atrazine	0.0492	0.0489	J	ug/L		99	50 - 150
Benz(a)anthracene	0.0492	0.0525		ug/L		107	50 - 150
Benzo[a]pyrene	0.0197	0.0195	J	ug/L		99	50 - 150
Benzo[b]fluoranthene	0.0197	0.0198	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0520		ug/L		106	50 - 150
Benzo[k]fluoranthene	0.0197	0.0187	J	ug/L		95	50 - 150
beta-BHC	0.0984	0.104		ug/L		105	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.574	J	ug/L		97	50 - 150
Bromacil	0.0984	0.0978	J	ug/L		99	50 - 150
Butachlor	0.0492	0.0705		ug/L		143	50 - 150
Butylbenzylphthalate	0.492	0.570		ug/L		116	50 - 150
Chlorobenzilate	0.0984	0.117		ug/L		119	50 - 150
Chloroneb	0.0984	0.0918	J	ug/L		93	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0984	0.103		ug/L		105	50 - 150
Chlorpyrifos	0.0492	0.0572		ug/L		116	50 - 150
Chrysene	0.0197	0.0171	J	ug/L		87	50 - 150
delta-BHC	0.0984	0.0964	J	ug/L		98	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.657		ug/L		111	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0541		ug/L		110	50 - 150

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-184641/21-A
Matrix: Water
Analysis Batch: 184796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184641

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Diclorvos (DDVP)	0.0492	0.0563		ug/L		114	50 - 150
Dieldrin	0.00984	0.00930	J	ug/L		94	50 - 150
Diethylphthalate	0.492	0.554		ug/L		113	50 - 150
Dimethylphthalate	0.492	0.525		ug/L		107	50 - 150
Di-n-butyl phthalate	0.492	0.544	J	ug/L		111	49 - 243
Di-n-octyl phthalate	0.0984	0.104		ug/L		106	50 - 150
Endosulfan I (Alpha)	0.0984	0.0799	J	ug/L		81	50 - 150
Endosulfan II (Beta)	0.0984	0.0952	J	ug/L		97	50 - 150
Endosulfan sulfate	0.0984	0.109		ug/L		111	50 - 150
Endrin	0.00984	0.00808	J	ug/L		82	50 - 150
Endrin aldehyde	0.0984	0.109		ug/L		111	50 - 150
EPTC	0.0984	0.110		ug/L		111	50 - 150
Fluoranthene	0.0984	0.0987		ug/L		100	50 - 150
Fluorene	0.0492	0.0551		ug/L		112	50 - 150
gamma-Chlordane	0.0246	0.0236	J	ug/L		96	50 - 150
Heptachlor	0.00984	0.0143		ug/L		145	50 - 150
Heptachlor epoxide (isomer B)	0.00984	0.0153	^3+	ug/L		156	50 - 150
Hexachlorobenzene	0.0492	0.0557		ug/L		113	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0451	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0538		ug/L		109	50 - 150
Isophorone	0.0984	0.103		ug/L		105	50 - 150
Lindane	0.00984	0.00991		ug/L		101	50 - 150
Malathion	0.0984	0.107		ug/L		109	50 - 150
Methoxychlor	0.0492	0.0680		ug/L		138	50 - 150
Metolachlor	0.0492	0.0633		ug/L		129	50 - 150
Molinate	0.0984	0.113		ug/L		115	50 - 150
Naphthalene	0.0984	0.111		ug/L		113	50 - 150
Parathion	0.0984	0.0983		ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0984	0.0941	J	ug/L		96	50 - 150
Phenanthrene	0.0394	0.0429		ug/L		109	50 - 150
Propachlor	0.0492	0.0679		ug/L		138	50 - 150
Pyrene	0.0492	0.0575		ug/L		117	50 - 150
Simazine	0.0492	0.0422	J	ug/L		86	50 - 150
Terbacil	0.0984	0.102		ug/L		104	50 - 150
Terbutylazine	0.0984	0.105		ug/L		107	50 - 150
Thiobencarb	0.0984	0.101		ug/L		103	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		76	50 - 150
Trifluralin	0.0984	0.115		ug/L		117	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	94		70 - 130

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-649162/1-A
Matrix: Water
Analysis Batch: 657353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649162

<i>Tentatively Identified Compound</i>	<i>MB</i>	<i>MB</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>	None		ug/L			N/A	10/31/25 08:17	11/17/25 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		33 - 139				10/31/25 08:17	11/17/25 14:51	1
2-Fluorobiphenyl (Surr)	84		33 - 126				10/31/25 08:17	11/17/25 14:51	1
2-Fluorophenol (Surr)	53		12 - 120				10/31/25 08:17	11/17/25 14:51	1
Nitrobenzene-d5 (Surr)	87		36 - 120				10/31/25 08:17	11/17/25 14:51	1
Phenol-d6 (Surr)	32		10 - 120				10/31/25 08:17	11/17/25 14:51	1
p-Terphenyl-d14 (Surr)	82		47 - 131				10/31/25 08:17	11/17/25 14:51	1

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

Lab Sample ID: MB 570-649162/1-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649162

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Acenaphthene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Acenaphthylene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Anthracene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Chrysene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Fluoranthene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Fluorene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Naphthalene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Phenanthrene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Pyrene	<0.20		0.20	ug/L		10/31/25 08:17	11/13/25 23:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		28 - 127			10/31/25 08:17	11/13/25 23:45	1
2-Fluorobiphenyl (Surr)	56		31 - 120			10/31/25 08:17	11/13/25 23:45	1
2-Fluorophenol (Surr)	36		17 - 120			10/31/25 08:17	11/13/25 23:45	1
Nitrobenzene-d5 (Surr)	58		27 - 120			10/31/25 08:17	11/13/25 23:45	1
Phenol-d6 (Surr)	25		10 - 120			10/31/25 08:17	11/13/25 23:45	1
p-Terphenyl-d14 (Surr)	67		45 - 120			10/31/25 08:17	11/13/25 23:45	1

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 570-649162/2-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.3		ug/L		66	47 - 120
2-Methylnaphthalene	20.0	13.2		ug/L		66	43 - 120
Acenaphthene	20.0	13.9		ug/L		70	60 - 132
Acenaphthylene	20.0	13.6		ug/L		68	54 - 126
Anthracene	20.0	13.7		ug/L		69	43 - 120
Benzo[a]anthracene	20.0	13.9		ug/L		70	42 - 133
Benzo[a]pyrene	20.0	12.3		ug/L		61	32 - 148
Benzo[b]fluoranthene	20.0	13.3		ug/L		67	42 - 140
Benzo[g,h,i]perylene	20.0	13.2		ug/L		66	1 - 195
Benzo[k]fluoranthene	20.0	13.1		ug/L		65	25 - 146
Chrysene	20.0	14.3		ug/L		72	44 - 140
Dibenz(a,h)anthracene	20.0	13.8		ug/L		69	1 - 200
Fluoranthene	20.0	14.6		ug/L		73	43 - 121
Fluorene	20.0	14.1		ug/L		70	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	13.1		ug/L		65	1 - 151
Naphthalene	20.0	12.2		ug/L		61	36 - 120
Phenanthrene	20.0	14.1		ug/L		70	65 - 120
Pyrene	20.0	15.7		ug/L		79	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		28 - 127
2-Fluorobiphenyl (Surr)	70		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

Lab Sample ID: LCSD 570-649162/3-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	11.9		ug/L		-	-		
2-Methylnaphthalene	20.0	11.8		ug/L		-	-		
Acenaphthene	20.0	12.5		ug/L		-	-		
Acenaphthylene	20.0	12.5		ug/L		-	-		
Anthracene	20.0	12.8		ug/L		-	-		
Benzo[a]anthracene	20.0	13.0		ug/L		-	-		
Benzo[a]pyrene	20.0	11.8		ug/L		-	-		
Benzo[b]fluoranthene	20.0	12.4		ug/L		-	-		
Benzo[g,h,i]perylene	20.0	12.3		ug/L		-	-		
Benzo[k]fluoranthene	20.0	12.7		ug/L		-	-		
Chrysene	20.0	13.4		ug/L		-	-		
Dibenz(a,h)anthracene	20.0	13.0		ug/L		-	-		
Fluoranthene	20.0	13.2		ug/L		-	-		
Fluorene	20.0	12.9		ug/L		-	-		
Indeno[1,2,3-cd]pyrene	20.0	12.2		ug/L		-	-		
Naphthalene	20.0	10.9		ug/L		-	-		

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QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCSD 570-649162/3-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	12.8		ug/L			-		
Pyrene	20.0	14.6		ug/L			-		

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)			
2-Fluorobiphenyl (Surr)			
2-Fluorophenol (Surr)			
Nitrobenzene-d5 (Surr)			
Phenol-d6 (Surr)			
p-Terphenyl-d14 (Surr)			

Lab Sample ID: 380-179754-A-1-A MS
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	13.4		ug/L		70	36 - 120
2-Methylnaphthalene	<0.19		19.3	13.2		ug/L		68	32 - 124
Acenaphthene	<0.19		19.3	14.5		ug/L		75	47 - 145
Acenaphthylene	<0.19		19.3	14.6		ug/L		75	33 - 145
Anthracene	<0.19		19.3	14.4		ug/L		74	27 - 133
Benzo[a]anthracene	<0.19		19.3	14.7		ug/L		76	33 - 143
Benzo[a]pyrene	<0.19		19.3	13.6		ug/L		71	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	14.1		ug/L		73	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	14.2		ug/L		73	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	14.2		ug/L		74	11 - 162
Chrysene	<0.19		19.3	15.1		ug/L		78	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	14.9		ug/L		77	1 - 227
Fluoranthene	<0.19		19.3	14.8		ug/L		77	26 - 137
Fluorene	<0.19		19.3	14.6		ug/L		76	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	14.1		ug/L		73	1 - 171
Naphthalene	<0.19		19.3	12.4		ug/L		64	21 - 133
Phenanthrene	<0.19		19.3	14.5		ug/L		75	54 - 120
Pyrene	<0.19		19.3	16.7		ug/L		86	52 - 120

Surrogate	%Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-179754-A-1-B MSD

Matrix: Water

Analysis Batch: 656023

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 649162

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1-Methylnaphthalene	<0.19		19.3	11.9		ug/L		62	36 - 120	12	30
2-Methylnaphthalene	<0.19		19.3	11.8		ug/L		61	32 - 124	11	30
Acenaphthene	<0.19		19.3	12.5		ug/L		64	47 - 145	15	48
Acenaphthylene	<0.19		19.3	12.4		ug/L		64	33 - 145	16	74
Anthracene	<0.19		19.3	12.3		ug/L		64	27 - 133	15	66
Benzo[a]anthracene	<0.19		19.3	12.6		ug/L		65	33 - 143	16	53
Benzo[a]pyrene	<0.19		19.3	11.4		ug/L		59	17 - 163	17	72
Benzo[b]fluoranthene	<0.19		19.3	11.9		ug/L		62	24 - 159	17	71
Benzo[g,h,i]perylene	<0.19		19.3	11.8		ug/L		61	1 - 219	19	97
Benzo[k]fluoranthene	<0.19		19.3	12.1		ug/L		62	11 - 162	16	63
Chrysene	<0.19		19.3	13.0		ug/L		67	17 - 168	15	87
Dibenz(a,h)anthracene	<0.19		19.3	12.3		ug/L		64	1 - 227	19	126
Fluoranthene	<0.19		19.3	12.9		ug/L		67	26 - 137	14	66
Fluorene	<0.19		19.3	12.7		ug/L		66	59 - 121	14	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	11.6		ug/L		60	1 - 171	19	99
Naphthalene	<0.19		19.3	10.9		ug/L		56	21 - 133	12	65
Phenanthrene	<0.19		19.3	12.5		ug/L		65	54 - 120	15	39
Pyrene	<0.19		19.3	14.1		ug/L		73	52 - 120	17	49

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	67		28 - 127
2-Fluorobiphenyl (Surr)	64		31 - 120
2-Fluorophenol (Surr)	47		17 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d6 (Surr)	30		10 - 120
p-Terphenyl-d14 (Surr)	73		45 - 120

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

Lab Sample ID: MB 570-653207/6

Matrix: Water

Analysis Batch: 653207

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			11/08/25 14:30	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		11/08/25 14:30	1

Lab Sample ID: LCS 570-653207/4

Matrix: Water

Analysis Batch: 653207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	388		ug/L		97	78 - 120

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QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 570-653207/4
Matrix: Water
Analysis Batch: 653207

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

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

Lab Sample ID: LCSD 570-653207/5
Matrix: Water
Analysis Batch: 653207

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Gasoline Range Organics (C4-C13)	400	392		ug/L		98	78 - 120	1	10

	LCSD	LCSD	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	98		38 - 134

Lab Sample ID: MRL 570-653207/3
Matrix: Water
Analysis Batch: 653207

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

<i>Analyte</i>	<i>Spike Added</i>	<i>MRL Result</i>	<i>MRL Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Gasoline Range Organics (C4-C13)	10.0	12.8		ug/L		128	50 - 150

	MRL	MRL	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	91		38 - 134

Lab Sample ID: 380-181052-C-1 MS
Matrix: Water
Analysis Batch: 653207

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Gasoline Range Organics (C4-C13)	<10		400	394		ug/L		99	68 - 122

	MS	MS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	98		38 - 134

Lab Sample ID: 380-181052-C-1 MSD
Matrix: Water
Analysis Batch: 653207

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Gasoline Range Organics (C4-C13)	<10		400	376		ug/L		94	68 - 122	5	18

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

QC Sample Results

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-649949/1-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649949

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		11/02/25 11:31	11/11/25 13:01	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		11/02/25 11:31	11/11/25 13:01	1
C8-C18	<25		25	ug/L		11/02/25 11:31	11/11/25 13:01	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	105		60 - 130			11/02/25 11:31	11/11/25 13:01	1

Lab Sample ID: LCS 570-649949/2-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
C10-C28	2000	2120		ug/L		106	56 - 127		
Surrogate	LCS LCS		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	123		60 - 130						

Lab Sample ID: LCSD 570-649949/3-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C28	2000	1750		ug/L		87	56 - 127	19	23
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	115		60 - 130						

Lab Sample ID: MRL 570-649949/4-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
C10-C28	0.0200	0.0314	^3+	mg/L		157	50 - 150		
Surrogate	MRL MRL		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	127		60 - 130						

Lab Sample ID: 380-179754-C-1-A MS
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
C10-C28	<25	^3+	2050	2100		ug/L		102	70 - 130
Surrogate	MS MS		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	125		60 - 130						

QC Sample Results

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

Job ID: 380-180065-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-179754-C-1-B MSD
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25	^3+	2120	2270		ug/L		107	70 - 130	8	20
Surrogate		MSD %Recovery	MSD Qualifier								Limits
<i>n-Octacosane (Surr)</i>		125									60 - 130

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QC Association Summary

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

GC/MS Semi VOA

Prep Batch: 184576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	
MB 380-184576/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-184576/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-180061-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-180065-1 DU	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	

Prep Batch: 184641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-184641/21-A	Lab Control Sample	Total/NA	Water	525.2	

Analysis Batch: 184792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	184576
MB 380-184576/20-A	Method Blank	Total/NA	Water	525.2	184576
LCS 380-184576/22-A	Lab Control Sample	Total/NA	Water	525.2	184576
380-180061-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	184576
380-180065-1 DU	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	184576

Analysis Batch: 184796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-184641/21-A	Lab Control Sample	Total/NA	Water	525.2	184641

Prep Batch: 649162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-649162/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-649162/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-179754-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-179754-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 656023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	649162
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1 SIM	649162
LCS 570-649162/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	649162
LCSD 570-649162/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	649162
380-179754-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	649162
380-179754-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	649162

Analysis Batch: 657353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	649162
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1	649162

GC VOA

Analysis Batch: 653207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-180065-2	TB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-180065-1
SDG: Weekly: Moanalua Wells

GC VOA (Continued)

Analysis Batch: 653207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-653207/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-653207/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-653207/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-653207/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-181052-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-181052-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 649949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
MB 570-649949/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-649949/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-649949/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-649949/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-179754-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-179754-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 654466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180065-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	649949
MB 570-649949/1-A	Method Blank	Total/NA	Water	8015B	649949
LCS 570-649949/2-A	Lab Control Sample	Total/NA	Water	8015B	649949
LCSD 570-649949/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	649949
MRL 570-649949/4-A	Lab Control Sample	Total/NA	Water	8015B	649949
380-179754-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	649949
380-179754-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	649949

Lab Chronicle

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

Job ID: 380-180065-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-180065-1

Date Collected: 10/28/25 10:57

Matrix: Drinking Water

Date Received: 10/30/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184576	KRD3	EA POM	11/05/25 10:31
Total/NA	Analysis	525.2		1	184792	UPAC	EA POM	11/06/25 13:22
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1		1	657353	PQS1	EET CAL 4	11/17/25 17:17
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1 SIM		1	656023	J7WE	EET CAL 4	11/14/25 05:21
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 17:37
Total/NA	Prep	3510C			649949	TVD6	EET CAL 4	11/02/25 11:32
Total/NA	Analysis	8015B		1	654466	H6FE	EET CAL 4	11/11/25 16:14

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

Lab Sample ID: 380-180065-2

Date Collected: 10/28/25 10:57

Matrix: Water

Date Received: 10/30/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 15:25

Laboratory References:

EA POM = Eurofins Eaton Analytical 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: 380-180065-1
SDG: Weekly: Moanalua Wells

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Laboratory: Eurofins Calscience

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

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-180065-1
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	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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Method Summary

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

Job ID: 380-180065-1
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 Eaton Analytical 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: 380-180065-1
SDG: Weekly: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-180065-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	10/28/25 10:57	10/30/25 10:36	HI0000331
380-180065-2	TB: MOANALUA WELLS (331-223-TP202)	Water	10/28/25 10:57	10/30/25 10:36	

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



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Loc: 380
180065

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-271139.1	
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				Accreditations Required (See note): State - Hawaii				Job #: 380-180065-1	
Address: 2841 Dow Avenue, Suite 100, Tustin, CA, 92780		Due Date Requested: 11/12/2025		Analysis Requested				Preservation Codes:	
City: Tustin		TAT Requested (days): N/A							
State, Zip: CA, 92780		PO #: N/A		Field Filtered Sample (Yes or No)		Perform MCSMSD (Yes or No)		Field Number of Containers	
Phone: 714-895-5494(Tel)		WO #: N/A							
Email: N/A		Project #: 38001111		625.1_SIN0625_Prep(MOD) Extended PAH List		8015B_DRO_LL_CS/3510C_LLHML Ranges: C10-C24/C24-C36/C8-C18		8015B_GRO_LL18030C(MOD) GRO	
Project Name: RED-HILL		SSOW#: N/A							
Site: Honolulu BWS Sites		Matrix (Water, Swatch, Dewater/ot, ST=Toxic, Air)		Special Instructions/Note:		Other: N/A			
		Preservation Code:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOANALUA WELLS (331-223-TP202) (380-180065-1)		10/28/25	10:57 Hawaiian	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7. MRLs are needed. Confirm any hits >RL
TB: MOANALUA WELLS (331-223-TP202) (380-180065-2)		10/28/25	10:57 Hawaiian	G	Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. MRLs are needed.
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-180065-1
SDG Number: Weekly: Moanalua Wells

Login Number: 180065
List Number: 1
Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical 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: 380-180065-1
SDG Number: Weekly: Moanalua Wells

Login Number: 180065

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 10/30/25 06:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.5
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	