

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Ka'amilo Wells Pump 1/Pump 2

JOB NUMBER

380-179791-1

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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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: 380-179791-1

Job ID: 380-179791-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-179791-1

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 10/29/2025 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 5.3°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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.078		0.0096	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		0.0096	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-2

No Detections.

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.073		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-1

Date Collected: 10/27/25 12:19

Matrix: Water

Date Received: 10/29/25 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
2,4'-DDD	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
2,4'-DDE	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
2,4'-DDT	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
2-Methylnaphthalene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
4,4'-DDD	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
4,4'-DDE	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
4,4'-DDT	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Acenaphthene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Acenaphthylene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Acetochlor	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Alachlor	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
alpha-BHC	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
alpha-Chlordane	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Anthracene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:34	1
Atrazine	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Benz(a)anthracene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Benzo[a]pyrene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:34	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:34	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:34	1
beta-BHC	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		11/04/25 07:33	11/05/25 09:34	1
Bromacil	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Butachlor	<0.048	^3+	0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Butylbenzylphthalate	<0.48		0.48	ug/L		11/04/25 07:33	11/05/25 09:34	1
Chlorobenzilate	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Chloroneb	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Chlorpyrifos	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Chrysene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:34	1
delta-BHC	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		11/04/25 07:33	11/05/25 09:34	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Dieldrin	0.078		0.0096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Diethylphthalate	<0.48		0.48	ug/L		11/04/25 07:33	11/05/25 09:34	1
Dimethylphthalate	<0.48		0.48	ug/L		11/04/25 07:33	11/05/25 09:34	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		11/04/25 07:33	11/05/25 09:34	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Endosulfan sulfate	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Endrin	<0.0096		0.0096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Endrin aldehyde	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
EPTC	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Fluoranthene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1

Client Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-1

Date Collected: 10/27/25 12:19

Matrix: Water

Date Received: 10/29/25 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
gamma-Chlordane	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Heptachlor	<0.0096		0.0096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Heptachlor epoxide (isomer B)	0.015		0.0096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Hexachlorobenzene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Isophorone	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Lindane	<0.0096		0.0096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Malathion	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Methoxychlor	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Metolachlor	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Molinate	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Naphthalene	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Parathion	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Phenanthrene	<0.038		0.038	ug/L		11/04/25 07:33	11/05/25 09:34	1
Propachlor	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Pyrene	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Simazine	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Terbacil	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Terbutylazine	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Thiobencarb	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		11/04/25 07:33	11/05/25 09:34	1
trans-Nonachlor	<0.048		0.048	ug/L		11/04/25 07:33	11/05/25 09:34	1
Trifluralin	<0.096		0.096	ug/L		11/04/25 07:33	11/05/25 09:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/04/25 07:33	11/05/25 09:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	11/04/25 07:33	11/05/25 09:34	1
Perylene-d12	85		70 - 130	11/04/25 07:33	11/05/25 09:34	1
Triphenylphosphate	105		70 - 130	11/04/25 07:33	11/05/25 09:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Acenaphthene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Acenaphthylene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Anthracene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Chrysene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Fluoranthene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-1

Date Collected: 10/27/25 12:19

Matrix: Water

Date Received: 10/29/25 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Naphthalene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Phenanthrene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1
Pyrene	<0.20		0.20	ug/L		10/31/25 08:18	11/14/25 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		28 - 127	10/31/25 08:18	11/14/25 04:14	1
2-Fluorobiphenyl (Surr)	70		31 - 120	10/31/25 08:18	11/14/25 04:14	1
2-Fluorophenol (Surr)	43		17 - 120	10/31/25 08:18	11/14/25 04:14	1
Nitrobenzene-d5 (Surr)	70		27 - 120	10/31/25 08:18	11/14/25 04:14	1
Phenol-d6 (Surr)	29		10 - 120	10/31/25 08:18	11/14/25 04:14	1
p-Terphenyl-d14 (Surr)	82		45 - 120	10/31/25 08:18	11/14/25 04:14	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 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		33 - 139	10/31/25 08:18	11/17/25 16:04	1
2-Fluorobiphenyl (Surr)	92		33 - 126	10/31/25 08:18	11/17/25 16:04	1
2-Fluorophenol (Surr)	53		12 - 120	10/31/25 08:18	11/17/25 16:04	1
Nitrobenzene-d5 (Surr)	90		36 - 120	10/31/25 08:18	11/17/25 16:04	1
Phenol-d6 (Surr)	31		10 - 120	10/31/25 08:18	11/17/25 16:04	1
p-Terphenyl-d14 (Surr)	91		47 - 131	10/31/25 08:18	11/17/25 16:04	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 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		11/08/25 16:31	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 15:10	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		11/02/25 11:32	11/11/25 15:10	1
C8-C18	<26		26	ug/L		11/02/25 11:32	11/11/25 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130	11/02/25 11:32	11/11/25 15:10	1

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-2

Date Collected: 10/27/25 12:19

Matrix: Water

Date Received: 10/29/25 10:05

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 15:03	1

Client Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-2

Date Collected: 10/27/25 12:19

Matrix: Water

Date Received: 10/29/25 10:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		11/08/25 15:03	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-3

Date Collected: 10/27/25 12:55

Matrix: Water

Date Received: 10/29/25 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
2,4'-DDD	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
2,4'-DDE	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
2,4'-DDT	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
2-Methylnaphthalene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
4,4'-DDD	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
4,4'-DDE	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
4,4'-DDT	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Acenaphthene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Acenaphthylene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Acetochlor	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Alachlor	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
alpha-BHC	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
alpha-Chlordane	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Anthracene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:54	1
Atrazine	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Benz(a)anthracene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Benzo[a]pyrene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:54	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:54	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:54	1
beta-BHC	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		11/04/25 07:33	11/05/25 09:54	1
Bromacil	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Butachlor	<0.049	^3+	0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Butylbenzylphthalate	<0.49		0.49	ug/L		11/04/25 07:33	11/05/25 09:54	1
Chlorobenzilate	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Chloroneb	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Chlorpyrifos	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Chrysene	<0.019		0.019	ug/L		11/04/25 07:33	11/05/25 09:54	1
delta-BHC	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		11/04/25 07:33	11/05/25 09:54	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Dieldrin	0.073		0.0097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Diethylphthalate	<0.49		0.49	ug/L		11/04/25 07:33	11/05/25 09:54	1
Dimethylphthalate	<0.49		0.49	ug/L		11/04/25 07:33	11/05/25 09:54	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		11/04/25 07:33	11/05/25 09:54	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1

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Client Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-3

Date Collected: 10/27/25 12:55

Matrix: Water

Date Received: 10/29/25 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Endosulfan sulfate	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Endrin	<0.0097		0.0097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Endrin aldehyde	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
EPTC	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Fluoranthene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Fluorene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
gamma-Chlordane	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Heptachlor	<0.0097		0.0097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Heptachlor epoxide (isomer B)	0.015		0.0097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Hexachlorobenzene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Isophorone	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Lindane	<0.0097		0.0097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Malathion	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Methoxychlor	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Metolachlor	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Molinate	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Naphthalene	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Parathion	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Phenanthrene	<0.039		0.039	ug/L		11/04/25 07:33	11/05/25 09:54	1
Propachlor	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Pyrene	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Simazine	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Terbacil	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Terbutylazine	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Thiobencarb	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		11/04/25 07:33	11/05/25 09:54	1
trans-Nonachlor	<0.049		0.049	ug/L		11/04/25 07:33	11/05/25 09:54	1
Trifluralin	<0.097		0.097	ug/L		11/04/25 07:33	11/05/25 09:54	1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>11/04/25 07:33</i>	<i>11/05/25 09:54</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2-Nitro-m-xylene</i>	<i>102</i>		<i>70 - 130</i>	<i>11/04/25 07:33</i>	<i>11/05/25 09:54</i>	<i>1</i>
<i>Perylene-d12</i>	<i>87</i>		<i>70 - 130</i>	<i>11/04/25 07:33</i>	<i>11/05/25 09:54</i>	<i>1</i>
<i>Triphenylphosphate</i>	<i>103</i>		<i>70 - 130</i>	<i>11/04/25 07:33</i>	<i>11/05/25 09:54</i>	<i>1</i>

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 04:36	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Acenaphthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Acenaphthylene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Anthracene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-3

Date Collected: 10/27/25 12:55

Matrix: Water

Date Received: 10/29/25 10:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Chrysene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Fluoranthene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Fluorene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Naphthalene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Phenanthrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1
Pyrene	<0.19		0.19	ug/L		10/31/25 08:18	11/14/25 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		28 - 127	10/31/25 08:18	11/14/25 04:36	1
2-Fluorobiphenyl (Surr)	72		31 - 120	10/31/25 08:18	11/14/25 04:36	1
2-Fluorophenol (Surr)	46		17 - 120	10/31/25 08:18	11/14/25 04:36	1
Nitrobenzene-d5 (Surr)	72		27 - 120	10/31/25 08:18	11/14/25 04:36	1
Phenol-d6 (Surr)	29		10 - 120	10/31/25 08:18	11/14/25 04:36	1
p-Terphenyl-d14 (Surr)	81		45 - 120	10/31/25 08:18	11/14/25 04:36	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-	13	T J N	ug/L		1.92	141-79-7	10/31/25 08:18	11/17/25 16:28	1
Diisoomylene	11	T J N	ug/L		2.81	54063-09-1	10/31/25 08:18	11/17/25 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		33 - 139	10/31/25 08:18	11/17/25 16:28	1
2-Fluorobiphenyl (Surr)	97		33 - 126	10/31/25 08:18	11/17/25 16:28	1
2-Fluorophenol (Surr)	55		12 - 120	10/31/25 08:18	11/17/25 16:28	1
Nitrobenzene-d5 (Surr)	91		36 - 120	10/31/25 08:18	11/17/25 16:28	1
Phenol-d6 (Surr)	31		10 - 120	10/31/25 08:18	11/17/25 16:28	1
p-Terphenyl-d14 (Surr)	92		47 - 131	10/31/25 08:18	11/17/25 16:28	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 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134		11/08/25 16:53	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)	<25		25	ug/L		11/02/25 11:32	11/11/25 15:31	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		11/02/25 11:32	11/11/25 15:31	1
C8-C18	<25		25	ug/L		11/02/25 11:32	11/11/25 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		60 - 130	11/02/25 11:32	11/11/25 15:31	1

Client Sample Results

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

Job ID: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-4

Date Collected: 10/27/25 12:55

Matrix: Water

Date Received: 10/29/25 10:05

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 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134				11/08/25 15:47	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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-179791-1

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	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-179791-3

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	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		ug/L	0.2	0.0097	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	<0.0097		ug/L	0.2	0.0097	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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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)
380-179791-1	Ka'amilo Wells Pump 1	101	85	105
380-179791-1 MS	Ka'amilo Wells Pump 1	103	94	106
380-179791-3	Ka'amilo Wells Pump 2	102	87	103
380-179791-3 DU	Ka'amilo Wells Pump 2	103	86	106
LCS 380-184281/21-A	Lab Control Sample	101	95	109
LCS 380-184281/22-A	Lab Control Sample Dup	100	92	106
MB 380-184281/19-A	Method Blank	102	83	104
MRL 380-184281/20-A	Lab Control Sample	102	81	103

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

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)
380-179791-1	Ka'amilo Wells Pump 1	87	92	53	90	31	91
380-179791-3	Ka'amilo Wells Pump 2	88	97	55	91	31	92
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)
 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
380-179791-1	Ka'amilo Wells Pump 1	73	70	43	70	29	82
380-179791-3	Ka'amilo Wells Pump 2	71	72	46	72	29	81
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)

Surrogate Summary

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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	FBP	2FP	NBZ	PHL6	TPHd14
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)							

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-179791-1	Ka'amilo Wells Pump 1	98
380-179791-2	TB: Ka'amilo Wells Pump 1	95
380-179791-3	Ka'amilo Wells Pump 2	96
380-179791-4	TB: Ka'amilo Wells Pump 2	97
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: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-130)
380-179754-C-1-A MS	Matrix Spike	125
380-179754-C-1-B MSD	Matrix Spike Duplicate	125
380-179791-1	Ka'amilo Wells Pump 1	112
380-179791-3	Ka'amilo Wells Pump 2	117
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: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-184281/19-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184281

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
2,4'-DDD	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
2,4'-DDE	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
2,4'-DDT	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
2-Methylnaphthalene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
4,4'-DDD	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
4,4'-DDE	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
4,4'-DDT	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Acenaphthene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Acenaphthylene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Acetochlor	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Alachlor	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
alpha-BHC	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
alpha-Chlordane	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Anthracene	<0.020		0.020	ug/L		11/04/25 07:33	11/05/25 07:52	1
Atrazine	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Benz(a)anthracene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Benzo[a]pyrene	<0.020		0.020	ug/L		11/04/25 07:33	11/05/25 07:52	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		11/04/25 07:33	11/05/25 07:52	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		11/04/25 07:33	11/05/25 07:52	1
beta-BHC	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		11/04/25 07:33	11/05/25 07:52	1
Bromacil	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Butachlor	<0.050	^3+	0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Butylbenzylphthalate	<0.50		0.50	ug/L		11/04/25 07:33	11/05/25 07:52	1
Chlorobenzilate	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Chloroneb	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Chlorpyrifos	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Chrysene	<0.020		0.020	ug/L		11/04/25 07:33	11/05/25 07:52	1
delta-BHC	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		11/04/25 07:33	11/05/25 07:52	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Dieldrin	<0.0099		0.0099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Diethylphthalate	<0.50		0.50	ug/L		11/04/25 07:33	11/05/25 07:52	1
Dimethylphthalate	<0.50		0.50	ug/L		11/04/25 07:33	11/05/25 07:52	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		11/04/25 07:33	11/05/25 07:52	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Endosulfan sulfate	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Endrin	<0.0099		0.0099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Endrin aldehyde	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
EPTC	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1

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QC Sample Results

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

Job ID: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-184281/19-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184281

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Fluorene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
gamma-Chlordane	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Heptachlor	<0.0099		0.0099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Hexachlorobenzene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Isophorone	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Lindane	<0.0099		0.0099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Malathion	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Methoxychlor	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Metolachlor	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Molinate	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Naphthalene	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Parathion	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Phenanthrene	<0.040		0.040	ug/L		11/04/25 07:33	11/05/25 07:52	1
Propachlor	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Pyrene	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Simazine	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Terbacil	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Terbutylazine	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Thiobencarb	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		11/04/25 07:33	11/05/25 07:52	1
trans-Nonachlor	<0.050		0.050	ug/L		11/04/25 07:33	11/05/25 07:52	1
Trifluralin	<0.099		0.099	ug/L		11/04/25 07:33	11/05/25 07:52	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Cyclopentene, 1,2,3,3,4-pentamethyl-</i>	1.45	T J N	ug/L		2.56	197390-29-7	11/04/25 07:33	11/05/25 07:52	1
<i>Heptadecane, 4-methyl-</i>	1.29	T J N	ug/L		3.02	26429-11-8	11/04/25 07:33	11/05/25 07:52	1
<i>Undecane</i>	3.03	T J N	ug/L		3.16	1120-21-4	11/04/25 07:33	11/05/25 07:52	1
<i>Cyclopentasiloxane, decamethyl-</i>	0.539	T J N	ug/L		3.29	541-02-6	11/04/25 07:33	11/05/25 07:52	1
<i>Cyclohexasiloxane, dodecamethyl-</i>	1.44	T J N	ug/L		3.91	540-97-6	11/04/25 07:33	11/05/25 07:52	1
<i>Unknown</i>	0.579	T J	ug/L		4.55	N/A	11/04/25 07:33	11/05/25 07:52	1
<i>9-Octadecenamide, (Z)-</i>	1.23	T J N	ug/L		7.92	301-02-0	11/04/25 07:33	11/05/25 07:52	1
<i>Unknown</i>	0.566	T J	ug/L		15.02	N/A	11/04/25 07:33	11/05/25 07:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	11/04/25 07:33	11/05/25 07:52	1
Perylene-d12	83		70 - 130	11/04/25 07:33	11/05/25 07:52	1
Triphenylphosphate	104		70 - 130	11/04/25 07:33	11/05/25 07:52	1

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-184281/21-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.93		ug/L		97	70 - 130
2,4'-DDD	1.98	2.08		ug/L		105	70 - 130
2,4'-DDE	1.98	2.15		ug/L		109	70 - 130
2,4'-DDT	1.98	1.99		ug/L		101	70 - 130
2,4-Dinitrotoluene	1.98	1.81		ug/L		91	70 - 130
2,6-Dinitrotoluene	1.98	1.95		ug/L		98	70 - 130
2-Methylnaphthalene	1.98	1.94		ug/L		98	70 - 130
4,4'-DDD	1.98	2.13		ug/L		108	70 - 130
4,4'-DDE	1.98	2.03		ug/L		103	70 - 130
4,4'-DDT	1.98	2.06		ug/L		104	70 - 130
Acenaphthene	1.98	1.97		ug/L		99	70 - 130
Acenaphthylene	1.98	1.92		ug/L		97	70 - 130
Acetochlor	1.98	2.18		ug/L		110	70 - 130
Alachlor	1.98	1.98		ug/L		100	70 - 130
alpha-BHC	1.98	1.91		ug/L		96	70 - 130
alpha-Chlordane	1.98	1.91		ug/L		97	70 - 130
Anthracene	1.98	1.82		ug/L		92	70 - 130
Atrazine	1.98	2.21		ug/L		112	70 - 130
Benz(a)anthracene	1.98	2.03		ug/L		103	70 - 130
Benzo[a]pyrene	1.98	1.99		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.98	2.09		ug/L		106	70 - 130
Benzo[g,h,i]perylene	1.98	2.12		ug/L		107	70 - 130
Benzo[k]fluoranthene	1.98	1.97		ug/L		99	70 - 130
beta-BHC	1.98	2.24		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.55		ug/L		129	70 - 130
Bromacil	1.98	2.05		ug/L		104	70 - 130
Butachlor	1.98	2.08		ug/L		105	70 - 130
Butylbenzylphthalate	1.98	2.38		ug/L		120	70 - 130
Chlorobenzilate	1.98	2.47		ug/L		125	70 - 130
Chloroneb	1.98	1.94		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.16		ug/L		109	70 - 130
Chlorpyrifos	1.98	2.02		ug/L		102	70 - 130
Chrysene	1.98	1.87		ug/L		94	70 - 130
delta-BHC	1.98	1.93		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.42		ug/L		122	70 - 130
Dibenz(a,h)anthracene	1.98	2.04		ug/L		103	70 - 130
Diclorvos (DDVP)	1.98	2.11		ug/L		107	70 - 130
Dieldrin	1.98	2.00		ug/L		101	70 - 130
Diethylphthalate	1.98	2.15		ug/L		108	70 - 130
Dimethylphthalate	1.98	2.04		ug/L		103	70 - 130
Di-n-butyl phthalate	3.96	4.53		ug/L		114	70 - 130
Di-n-octyl phthalate	1.98	2.30		ug/L		116	70 - 130
Endosulfan I (Alpha)	1.98	2.11		ug/L		107	70 - 130
Endosulfan II (Beta)	1.98	2.02		ug/L		102	70 - 130
Endosulfan sulfate	1.98	2.13		ug/L		108	70 - 130
Endrin	1.98	2.08		ug/L		105	70 - 130
Endrin aldehyde	1.98	2.09		ug/L		105	60 - 130
EPTC	1.98	2.15		ug/L		109	70 - 130

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-184281/21-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.98	2.18		ug/L		110	70 - 130
Fluorene	1.98	1.80		ug/L		91	70 - 130
gamma-Chlordane	1.98	1.96		ug/L		99	70 - 130
Heptachlor	1.98	2.14		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.89		ug/L		95	70 - 130
Hexachlorobenzene	1.98	2.04		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.98	1.95		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.07		ug/L		104	70 - 130
Isophorone	1.98	2.11		ug/L		107	70 - 130
Lindane	1.98	2.15		ug/L		109	70 - 130
Malathion	1.98	2.22		ug/L		112	70 - 130
Methoxychlor	1.98	2.06		ug/L		104	70 - 130
Metolachlor	1.98	1.94		ug/L		98	70 - 130
Molinate	1.98	2.20		ug/L		111	70 - 130
Naphthalene	1.98	2.02		ug/L		102	70 - 130
Parathion	1.98	2.33		ug/L		118	70 - 130
Pendimethalin (Penoxaline)	1.98	1.95		ug/L		99	70 - 130
Phenanthrene	1.98	1.97		ug/L		99	70 - 130
Propachlor	1.98	2.32		ug/L		117	70 - 130
Pyrene	1.98	2.22		ug/L		112	70 - 130
Simazine	1.98	2.06		ug/L		104	70 - 130
Terbacil	1.98	2.23		ug/L		112	70 - 130
Terbutylazine	1.98	2.31		ug/L		116	70 - 130
Thiobencarb	1.98	2.18		ug/L		110	70 - 130
trans-Nonachlor	1.98	1.82		ug/L		92	70 - 130
Trifluralin	1.98	1.94		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: LCSD 380-184281/22-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.98	1.90		ug/L		96	70 - 130	1	20
2,4'-DDD	1.98	2.03		ug/L		102	70 - 130	2	20
2,4'-DDE	1.98	2.11		ug/L		107	70 - 130	2	20
2,4'-DDT	1.98	1.93		ug/L		97	70 - 130	3	20
2,4-Dinitrotoluene	1.98	1.83		ug/L		92	70 - 130	1	20
2,6-Dinitrotoluene	1.98	1.96		ug/L		99	70 - 130	1	20
2-Methylnaphthalene	1.98	1.99		ug/L		100	70 - 130	2	20
4,4'-DDD	1.98	2.08		ug/L		105	70 - 130	3	20
4,4'-DDE	1.98	2.01		ug/L		101	70 - 130	1	20
4,4'-DDT	1.98	1.99		ug/L		100	70 - 130	4	20
Acenaphthene	1.98	1.96		ug/L		99	70 - 130	1	20

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QC Sample Results

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

Job ID: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-184281/22-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Acenaphthylene	1.98	1.94		ug/L		98	70 - 130	1	20	
Acetochlor	1.98	2.12		ug/L		107	70 - 130	3	20	
Alachlor	1.98	1.92		ug/L		97	70 - 130	3	20	
alpha-BHC	1.98	1.90		ug/L		96	70 - 130	0	20	
alpha-Chlordane	1.98	1.86		ug/L		94	70 - 130	3	20	
Anthracene	1.98	1.88		ug/L		95	70 - 130	3	20	
Atrazine	1.98	2.23		ug/L		112	70 - 130	1	20	
Benz(a)anthracene	1.98	1.99		ug/L		100	70 - 130	2	20	
Benzo[a]pyrene	1.98	2.01		ug/L		102	70 - 130	1	20	
Benzo[b]fluoranthene	1.98	2.07		ug/L		105	70 - 130	1	20	
Benzo[g,h,i]perylene	1.98	2.01		ug/L		101	70 - 130	5	20	
Benzo[k]fluoranthene	1.98	2.01		ug/L		101	70 - 130	2	20	
beta-BHC	1.98	2.21		ug/L		112	70 - 130	1	20	
Bis(2-ethylhexyl) phthalate	1.98	2.45		ug/L		124	70 - 130	4	20	
Bromacil	1.98	2.03		ug/L		103	70 - 130	1	20	
Butachlor	1.98	2.00		ug/L		101	70 - 130	4	20	
Butylbenzylphthalate	1.98	2.29		ug/L		115	70 - 130	4	20	
Chlorobenzilate	1.98	2.34		ug/L		118	70 - 130	6	20	
Chloroneb	1.98	1.93		ug/L		97	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.98	2.14		ug/L		108	70 - 130	1	20	
Chlorpyrifos	1.98	2.00		ug/L		101	70 - 130	1	20	
Chrysene	1.98	1.86		ug/L		94	70 - 130	0	20	
delta-BHC	1.98	1.92		ug/L		97	70 - 130	1	20	
Di(2-ethylhexyl)adipate	1.98	2.32		ug/L		117	70 - 130	4	20	
Dibenz(a,h)anthracene	1.98	1.95		ug/L		99	70 - 130	5	20	
Diclorvos (DDVP)	1.98	2.18		ug/L		110	70 - 130	3	20	
Dieldrin	1.98	1.90		ug/L		96	70 - 130	5	20	
Diethylphthalate	1.98	2.17		ug/L		110	70 - 130	1	20	
Dimethylphthalate	1.98	2.08		ug/L		105	70 - 130	2	20	
Di-n-butyl phthalate	3.97	4.50		ug/L		113	70 - 130	1	20	
Di-n-octyl phthalate	1.98	2.25		ug/L		114	70 - 130	2	20	
Endosulfan I (Alpha)	1.98	1.98		ug/L		100	70 - 130	6	20	
Endosulfan II (Beta)	1.98	1.99		ug/L		100	70 - 130	2	20	
Endosulfan sulfate	1.98	2.05		ug/L		103	70 - 130	4	20	
Endrin	1.98	1.99		ug/L		101	70 - 130	4	20	
Endrin aldehyde	1.98	2.01		ug/L		101	60 - 130	4	20	
EPTC	1.98	2.10		ug/L		106	70 - 130	2	20	
Fluoranthene	1.98	2.18		ug/L		110	70 - 130	0	20	
Fluorene	1.98	1.86		ug/L		94	70 - 130	3	20	
gamma-Chlordane	1.98	1.88		ug/L		95	70 - 130	4	20	
Heptachlor	1.98	2.12		ug/L		107	70 - 130	1	20	
Heptachlor epoxide (isomer B)	1.98	1.83		ug/L		92	70 - 130	3	20	
Hexachlorobenzene	1.98	2.05		ug/L		103	70 - 130	0	20	
Hexachlorocyclopentadiene	1.98	2.03		ug/L		102	70 - 130	4	20	
Indeno[1,2,3-cd]pyrene	1.98	2.01		ug/L		101	70 - 130	3	20	
Isophorone	1.98	2.10		ug/L		106	70 - 130	1	20	
Lindane	1.98	2.17		ug/L		109	70 - 130	1	20	
Malathion	1.98	2.18		ug/L		110	70 - 130	2	20	
Methoxychlor	1.98	2.02		ug/L		102	70 - 130	2	20	

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QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-184281/22-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Metolachlor	1.98	1.91		ug/L		96	70 - 130	2	20	
Molinate	1.98	2.22		ug/L		112	70 - 130	1	20	
Naphthalene	1.98	2.02		ug/L		102	70 - 130	0	20	
Parathion	1.98	2.27		ug/L		114	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.98	1.86		ug/L		94	70 - 130	5	20	
Phenanthrene	1.98	2.01		ug/L		101	70 - 130	2	20	
Propachlor	1.98	2.31		ug/L		117	70 - 130	0	20	
Pyrene	1.98	2.23		ug/L		112	70 - 130	0	20	
Simazine	1.98	2.10		ug/L		106	70 - 130	2	20	
Terbacil	1.98	2.26		ug/L		114	70 - 130	1	20	
Terbutylazine	1.98	2.33		ug/L		117	70 - 130	1	20	
Thiobencarb	1.98	2.17		ug/L		109	70 - 130	1	20	
trans-Nonachlor	1.98	1.74		ug/L		88	70 - 130	4	20	
Trifluralin	1.98	1.93		ug/L		97	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: MRL 380-184281/20-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0991	0.130		ug/L		131	50 - 150	
2,4'-DDD	0.0991	0.0998		ug/L		101	50 - 150	
2,4'-DDE	0.0991	0.121		ug/L		122	50 - 150	
2,4'-DDT	0.0991	0.109		ug/L		110	50 - 150	
2,4-Dinitrotoluene	0.0991	0.105		ug/L		106	50 - 150	
2,6-Dinitrotoluene	0.0991	0.124		ug/L		126	50 - 150	
2-Methylnaphthalene	0.0991	0.125		ug/L		126	50 - 150	
4,4'-DDD	0.0991	0.107		ug/L		108	50 - 150	
4,4'-DDE	0.0991	0.101		ug/L		102	50 - 150	
4,4'-DDT	0.0991	0.110		ug/L		111	50 - 150	
Acenaphthene	0.0991	0.104		ug/L		105	50 - 150	
Acenaphthylene	0.0991	0.108		ug/L		109	50 - 150	
Acetochlor	0.0991	0.123		ug/L		124	50 - 150	
Alachlor	0.0496	0.0618		ug/L		125	50 - 150	
alpha-BHC	0.0991	0.122		ug/L		123	50 - 150	
alpha-Chlordane	0.0248	0.0311	J	ug/L		125	50 - 150	
Anthracene	0.0198	0.0248		ug/L		125	50 - 150	
Atrazine	0.0496	0.0522		ug/L		105	50 - 150	
Benz(a)anthracene	0.0496	0.0644		ug/L		130	50 - 150	
Benzo[a]pyrene	0.0198	0.0205		ug/L		104	50 - 150	
Benzo[b]fluoranthene	0.0198	0.0214		ug/L		108	50 - 150	
Benzo[g,h,i]perylene	0.0496	0.0487	J	ug/L		98	50 - 150	
Benzo[k]fluoranthene	0.0198	0.0232		ug/L		117	50 - 150	

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QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-184281/20-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	0.0991	0.116		ug/L		117	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.804		ug/L		135	50 - 150
Bromacil	0.0991	0.112		ug/L		113	50 - 150
Butachlor	0.0496	0.0768	^3+	ug/L		155	50 - 150
Butylbenzylphthalate	0.496	0.692		ug/L		140	50 - 150
Chlorobenzilate	0.0991	0.114		ug/L		115	50 - 150
Chloroneb	0.0991	0.107		ug/L		108	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0991	0.104		ug/L		105	50 - 150
Chlorpyrifos	0.0496	0.0576		ug/L		116	50 - 150
Chrysene	0.0198	0.0203		ug/L		102	50 - 150
delta-BHC	0.0991	0.122		ug/L		123	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.721		ug/L		121	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0521		ug/L		105	50 - 150
Diclorvos (DDVP)	0.0496	0.0701		ug/L		141	50 - 150
Dieldrin	0.00991	0.0121		ug/L		122	50 - 150
Diethylphthalate	0.496	0.667		ug/L		135	50 - 150
Dimethylphthalate	0.496	0.615		ug/L		124	50 - 150
Di-n-butyl phthalate	0.496	0.700	J	ug/L		141	49 - 243
Di-n-octyl phthalate	0.0991	0.0963	J	ug/L		97	50 - 150
Endosulfan I (Alpha)	0.0991	0.0975	J	ug/L		98	50 - 150
Endosulfan II (Beta)	0.0991	0.107		ug/L		108	50 - 150
Endosulfan sulfate	0.0991	0.107		ug/L		108	50 - 150
Endrin	0.00991	0.0120		ug/L		121	50 - 150
Endrin aldehyde	0.0991	0.114		ug/L		115	50 - 150
EPTC	0.0991	0.114		ug/L		115	50 - 150
Fluoranthene	0.0991	0.110		ug/L		111	50 - 150
Fluorene	0.0496	0.0676		ug/L		136	50 - 150
gamma-Chlordane	0.0248	0.0297	J	ug/L		120	50 - 150
Heptachlor	0.00991	0.0116		ug/L		117	50 - 150
Heptachlor epoxide (isomer B)	0.00991	0.0122		ug/L		123	50 - 150
Hexachlorobenzene	0.0496	0.0549		ug/L		111	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0498	J	ug/L		101	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0519		ug/L		105	50 - 150
Isophorone	0.0991	0.134		ug/L		135	50 - 150
Lindane	0.00991	0.0128		ug/L		130	50 - 150
Malathion	0.0991	0.126		ug/L		127	50 - 150
Methoxychlor	0.0496	0.0625		ug/L		126	50 - 150
Metolachlor	0.0496	0.0678		ug/L		137	50 - 150
Molinate	0.0991	0.116		ug/L		117	50 - 150
Naphthalene	0.0991	0.0947	J	ug/L		96	50 - 150
Parathion	0.0991	0.101		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0991	0.0879	J	ug/L		89	50 - 150
Phenanthrene	0.0396	0.0448		ug/L		113	50 - 150
Propachlor	0.0496	0.0619		ug/L		125	50 - 150
Pyrene	0.0496	0.0553		ug/L		112	50 - 150
Simazine	0.0496	0.0528		ug/L		107	50 - 150
Terbacil	0.0991	0.117		ug/L		118	50 - 150
Terbutylazine	0.0991	0.109		ug/L		110	50 - 150
Thiobencarb	0.0991	0.128		ug/L		129	50 - 150

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QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-184281/20-A
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	0.0248	0.0296	J	ug/L		119	50 - 150
Trifluralin	0.0991	0.0921	J	ug/L		93	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	81		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-179791-1 MS
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.94	1.90		ug/L		97	70 - 130
2,4'-DDD	<0.096		1.94	2.05		ug/L		105	70 - 130
2,4'-DDE	<0.096		1.94	2.14		ug/L		110	70 - 130
2,4'-DDT	<0.096		1.94	1.97		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.096		1.94	1.92		ug/L		99	70 - 130
2,6-Dinitrotoluene	<0.096		1.94	2.00		ug/L		103	70 - 130
2-Methylnaphthalene	<0.096		1.94	1.97		ug/L		101	70 - 130
4,4'-DDD	<0.096		1.94	2.08		ug/L		107	70 - 130
4,4'-DDE	<0.096		1.94	1.97		ug/L		101	70 - 130
4,4'-DDT	<0.096		1.94	2.05		ug/L		106	70 - 130
Acenaphthene	<0.096		1.94	1.97		ug/L		102	70 - 130
Acenaphthylene	<0.096		1.94	1.94		ug/L		100	70 - 130
Acetochlor	<0.096		1.94	2.14		ug/L		110	70 - 130
Alachlor	<0.048		1.94	1.96		ug/L		101	70 - 130
alpha-BHC	<0.096		1.94	1.92		ug/L		99	70 - 130
alpha-Chlordane	<0.048		1.94	1.89		ug/L		96	70 - 130
Anthracene	<0.019		1.94	1.58		ug/L		81	70 - 130
Atrazine	<0.048		1.94	2.19		ug/L		113	70 - 130
Benz(a)anthracene	<0.048		1.94	1.96		ug/L		101	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.92		ug/L		99	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.08		ug/L		107	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	2.05		ug/L		106	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	1.99		ug/L		103	70 - 130
beta-BHC	<0.096		1.94	2.26		ug/L		116	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.42		ug/L		124	70 - 130
Bromacil	<0.096		1.94	2.11		ug/L		107	70 - 130
Butachlor	<0.048	^3+	1.94	2.00		ug/L		103	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.32		ug/L		119	70 - 130
Chlorobenzilate	<0.096		1.94	2.43		ug/L		125	70 - 130
Chloroneb	<0.096		1.94	1.94		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.94	2.05		ug/L		106	70 - 130
Chlorpyrifos	<0.048		1.94	1.99		ug/L		102	70 - 130
Chrysene	<0.019		1.94	1.86		ug/L		96	70 - 130
delta-BHC	<0.096		1.94	1.91		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.28		ug/L		118	70 - 130

QC Sample Results

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

Job ID: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-179791-1 MS
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Ka'amilo Wells Pump 1
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Dibenz(a,h)anthracene	<0.048		1.94	2.03		ug/L		104	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.15		ug/L		111	70 - 130
Dieldrin	0.078		1.94	2.03		ug/L		100	70 - 130
Diethylphthalate	<0.48		1.94	2.19		ug/L		113	70 - 130
Dimethylphthalate	<0.48		1.94	2.07		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.96		3.89	4.54		ug/L		117	70 - 130
Di-n-octyl phthalate	<0.096		1.94	2.21		ug/L		114	70 - 130
Endosulfan I (Alpha)	<0.096		1.94	2.04		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.096		1.94	2.02		ug/L		104	70 - 130
Endosulfan sulfate	<0.096		1.94	2.06		ug/L		106	70 - 130
Endrin	<0.0096		1.94	1.92		ug/L		99	70 - 130
Endrin aldehyde	<0.096		1.94	1.93		ug/L		99	60 - 130
EPTC	<0.096		1.94	2.17		ug/L		112	70 - 130
Fluoranthene	<0.096		1.94	2.16		ug/L		111	70 - 130
Fluorene	<0.048		1.94	1.84		ug/L		95	70 - 130
gamma-Chlordane	<0.048		1.94	1.91		ug/L		97	70 - 130
Heptachlor	<0.0096		1.94	2.10		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	0.015		1.94	1.89		ug/L		96	70 - 130
Hexachlorobenzene	<0.048		1.94	2.05		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	1.99		ug/L		103	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.08		ug/L		107	70 - 130
Isophorone	<0.096		1.94	2.09		ug/L		107	70 - 130
Lindane	<0.0096		1.94	2.22		ug/L		114	70 - 130
Malathion	<0.096		1.94	2.18		ug/L		112	70 - 130
Methoxychlor	<0.048		1.94	2.05		ug/L		105	70 - 130
Metolachlor	<0.048		1.94	1.91		ug/L		98	70 - 130
Molinate	<0.096		1.94	2.20		ug/L		113	70 - 130
Naphthalene	<0.096		1.94	1.98		ug/L		102	70 - 130
Parathion	<0.096		1.94	2.31		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.94	2.00		ug/L		103	70 - 130
Phenanthrene	<0.038		1.94	1.95		ug/L		100	70 - 130
Propachlor	<0.048		1.94	2.33		ug/L		120	70 - 130
Pyrene	<0.048		1.94	2.20		ug/L		113	70 - 130
Simazine	<0.048		1.94	2.01		ug/L		104	70 - 130
Terbacil	<0.096		1.94	2.21		ug/L		114	70 - 130
Terbutylazine	<0.096		1.94	2.30		ug/L		119	70 - 130
Thiobencarb	<0.096		1.94	2.15		ug/L		111	70 - 130
trans-Nonachlor	<0.048		1.94	1.81		ug/L		92	70 - 130
Trifluralin	<0.096		1.94	2.03		ug/L		104	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	103		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	106		70 - 130

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-179791-3 DU
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Ka'amilo Wells Pump 2
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Sample	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
	Result		Result	Qualifier				
1-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
2,4'-DDD	<0.097		<0.097		ug/L		NC	20
2,4'-DDE	<0.097		<0.097		ug/L		NC	20
2,4'-DDT	<0.097		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
4,4'-DDD	<0.097		<0.097		ug/L		NC	20
4,4'-DDE	<0.097		<0.097		ug/L		NC	20
4,4'-DDT	<0.097		<0.097		ug/L		NC	20
Acenaphthene	<0.097		<0.097		ug/L		NC	20
Acenaphthylene	<0.097		<0.097		ug/L		NC	20
Acetochlor	<0.097		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.097		ug/L		NC	20
Butachlor	<0.049	^3+	<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.097		ug/L		NC	20
Chloroneb	<0.097		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<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	0.073		0.0735		ug/L		0.2	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.097		ug/L		NC	20
Endrin	<0.0097		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.097		<0.097		ug/L		NC	20
EPTC	<0.097		<0.097		ug/L		NC	20

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-179791-3 DU
Matrix: Water
Analysis Batch: 184532

Client Sample ID: Ka'amilo Wells Pump 2
Prep Type: Total/NA
Prep Batch: 184281

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Fluoranthene	<0.097		<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	<0.0097		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.015		0.0147		ug/L		0.3	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	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<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	<0.097		<0.097		ug/L		NC	20
Naphthalene	<0.097		<0.097		ug/L		NC	20
Parathion	<0.097		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<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	<0.097		<0.097		ug/L		NC	20
Terbutylazine	<0.097		<0.097		ug/L		NC	20
Thiobencarb	<0.097		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	103		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	106		70 - 130

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

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	10/31/25 08:17	11/17/25 14:51	1

Surrogate	MB %Recovery	MB 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

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QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

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

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
<i>p</i> -Terphenyl-d14 (Surr)	82	MB MB	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

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1-Methylnaphthalene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
2-Methylnaphthalene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Acenaphthene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Acenaphthylene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Anthracene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Benzo[a]anthracene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Benzo[a]pyrene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Benzo[b]fluoranthene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Benzo[g,h,i]perylene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Benzo[k]fluoranthene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Chrysene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Dibenz(a,h)anthracene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Fluoranthene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Fluorene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Indeno[1,2,3-cd]pyrene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Naphthalene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Phenanthrene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1
Pyrene	<0.20	MB MB	0.20	ug/L	D	10/31/25 08:17	11/13/25 23:45	1

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
<i>2,4,6</i> -Tribromophenol (Surr)	57	MB MB	28 - 127	10/31/25 08:17	11/13/25 23:45	1
<i>2</i> -Fluorobiphenyl (Surr)	56	MB MB	31 - 120	10/31/25 08:17	11/13/25 23:45	1
<i>2</i> -Fluorophenol (Surr)	36	MB MB	17 - 120	10/31/25 08:17	11/13/25 23:45	1
Nitrobenzene-d5 (Surr)	58	MB MB	27 - 120	10/31/25 08:17	11/13/25 23:45	1
<i>Phenol</i> -d6 (Surr)	25	MB MB	10 - 120	10/31/25 08:17	11/13/25 23:45	1
<i>p</i> -Terphenyl-d14 (Surr)	67	MB MB	45 - 120	10/31/25 08:17	11/13/25 23:45	1

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

<u>Analyte</u>	<u>Spike Added</u>	<u>LCS Result</u>	<u>LCS Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>
1-Methylnaphthalene	20.0	13.3	LCS	ug/L	D	66	47 - 120
2-Methylnaphthalene	20.0	13.2	LCS	ug/L	D	66	43 - 120
Acenaphthene	20.0	13.9	LCS	ug/L	D	70	60 - 132
Acenaphthylene	20.0	13.6	LCS	ug/L	D	68	54 - 126
Anthracene	20.0	13.7	LCS	ug/L	D	69	43 - 120
Benzo[a]anthracene	20.0	13.9	LCS	ug/L	D	70	42 - 133
Benzo[a]pyrene	20.0	12.3	LCS	ug/L	D	61	32 - 148

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QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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
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		-	-		
Phenanthrene	20.0	12.8		ug/L		-	-		
Pyrene	20.0	14.6		ug/L		-	-		

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)			
2-Fluorobiphenyl (Surr)			
2-Fluorophenol (Surr)			

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

<u>Surrogate</u>	<u>LCS D</u>	<u>LCS D</u>	<u>Limits</u>
	%Recovery	Qualifier	
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

<u>Analyte</u>	<u>Sample</u>	<u>Sample</u>	<u>Spike</u>	<u>MS</u>	<u>MS</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u>	<u>Limits</u>
	Result	Qualifier	Added	Result	Qualifier					
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

<u>Surrogate</u>	<u>MS</u>	<u>MS</u>	<u>Limits</u>
	%Recovery	Qualifier	
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

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

<u>Analyte</u>	<u>Sample</u>	<u>Sample</u>	<u>Spike</u>	<u>MSD</u>	<u>MSD</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u>	<u>RPD</u>	<u>RPD</u>
	Result	Qualifier	Added	Result	Qualifier						
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

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QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	2000	2120		ug/L		106	56 - 127

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

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

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

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	125		60 - 130

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 Limit
C10-C28	<25	^3+	2120	2270		ug/L		107	70 - 130	8 20

QC Sample Results

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

GC/MS Semi VOA

Prep Batch: 184281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
MB 380-184281/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-184281/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-184281/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-184281/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-179791-1 MS	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-179791-3 DU	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	

Analysis Batch: 184532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	184281
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	184281
MB 380-184281/19-A	Method Blank	Total/NA	Water	525.2	184281
LCS 380-184281/21-A	Lab Control Sample	Total/NA	Water	525.2	184281
LCSD 380-184281/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	184281
MRL 380-184281/20-A	Lab Control Sample	Total/NA	Water	525.2	184281
380-179791-1 MS	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	184281
380-179791-3 DU	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	184281

Prep Batch: 649162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	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
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1 SIM	649162
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	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
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	649162
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	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
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

GC VOA (Continued)

Analysis Batch: 653207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179791-2	TB: Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
380-179791-4	TB: Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
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
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	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
380-179791-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	649949
380-179791-3	Ka'amilo Wells Pump 2	Total/NA	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: 380-179791-1
 SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1
Date Collected: 10/27/25 12:19
Date Received: 10/29/25 10:05

Lab Sample ID: 380-179791-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184281	OTM3	EA POM	11/04/25 07:33
Total/NA	Analysis	525.2		1	184532	Q8LA	EA POM	11/05/25 09:34
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 16:04
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 04:14
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 16:31
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 15:10

Client Sample ID: TB: Ka'amilo Wells Pump 1
Date Collected: 10/27/25 12:19
Date Received: 10/29/25 10:05

Lab Sample ID: 380-179791-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 15:03

Client Sample ID: Ka'amilo Wells Pump 2
Date Collected: 10/27/25 12:55
Date Received: 10/29/25 10:05

Lab Sample ID: 380-179791-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184281	OTM3	EA POM	11/04/25 07:33
Total/NA	Analysis	525.2		1	184532	Q8LA	EA POM	11/05/25 09:54
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 16:28
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 04:36
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 16:53
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 15:31

Client Sample ID: TB: Ka'amilo Wells Pump 2
Date Collected: 10/27/25 12:55
Date Received: 10/29/25 10:05

Lab Sample ID: 380-179791-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 15:47

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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

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	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	Terbutylazine
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	11-30-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EA POM = Eurofins 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: 380-179791-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-179791-1	Ka'amilo Wells Pump 1	Water	10/27/25 12:19	10/29/25 10:05	Hawaii
380-179791-2	TB: Ka'amilo Wells Pump 1	Water	10/27/25 12:19	10/29/25 10:05	Hawaii
380-179791-3	Ka'amilo Wells Pump 2	Water	10/27/25 12:55	10/29/25 10:05	Hawaii
380-179791-4	TB: Ka'amilo Wells Pump 2	Water	10/27/25 12:55	10/29/25 10:05	Hawaii

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

SHIP DATE: 28OCT25
ACTWGT 56.00 LB
CAD 2588050552/INET4535

BILL RECIPIENT

TO **EUROFINS RECEIVING DEPARTMENT**
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

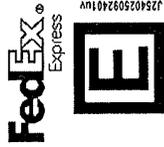
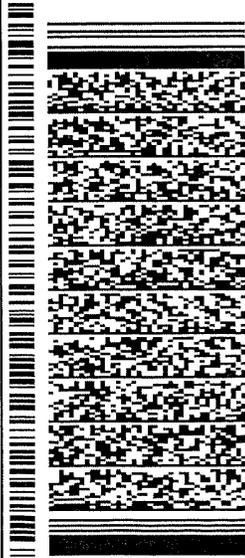
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POMONA CA 91768

INV (626) 386-1100 REF

PC

DEPT



618A-15-3 2-5-3
GFL

WED - 29 OCT 10:30A

PRIORITY OVERNIGHT

5 of 5

MPS# 8855 6084 0690

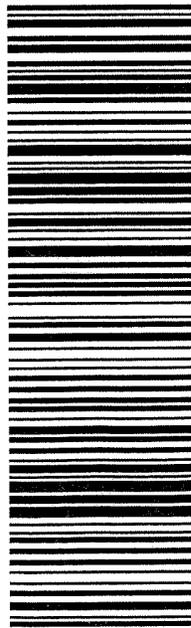
Mstr# 8855 6084 0657

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WM ONTA

91768

CA-US ONT



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1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment

CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins

Loc: 380
 E 179791

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-270616.1																																							
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 #: 380-179791-1																																							
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A		Due Date Requested: 11/11/2025 TAT Requested (days): N/A		<table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> <th rowspan="2">Total Number of containers</th> <th rowspan="2">Preservation Codes:</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8015B_DRO_LL_CS/3510C_LLHNL Ranges: C10-C24/C24-C36/C8-C18</th> <th>8015B_GRO_LL/5030C(MOD) GRO</th> <th>625.1_SIM/625_Prep(MOD) Extended PAH List</th> <th></th><th></th><th></th><th></th><th></th><th></th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>						Analysis Requested										Total Number of containers	Preservation Codes:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LLHNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List																				Other: N/A	
Analysis Requested										Total Number of containers	Preservation Codes:																																				
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Project Name: RED-HILL		Project #: 38001111		PO #: N/A		WO #: N/A		SSOW#: N/A																																							
Site: Honolulu BWS Sites																																															
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sealed, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LLHNL 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:																																											
Ka'amilo Wells Pump 1 (380-179791-1)		10/27/25	12:19 Hawaiian	G	Water		X	X	X		7	MRLs are needed. Confirm any hits >RL.																																			
TB: Ka'amilo Wells Pump 1 (380-179791-2)		10/27/25	12:19 Hawaiian	G	Water		X	X	X		2	MRLs are needed. Confirm any hits >RL.																																			
Ka'amilo Wells Pump 2 (380-179791-3)		10/27/25	12:55 Hawaiian	G	Water		X	X	X		7	MRLs are needed. Confirm any hits >RL.																																			
TB: Ka'amilo Wells Pump 2 (380-179791-4)		10/27/25	12:55 Hawaiian	G	Water		X	X	X		2	MRLs are needed. Confirm any hits >RL.																																			



380-179791 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Mark Arcutia</i>		Date/Time: 10/29/25 1533		Company: EEAP		Received by: <i>lt</i>	
Relinquished by: <i>lt</i>		Date/Time: 10-29-25 1636		Company: WPD		Received by: <i>lt</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.4/2.9 IR-3			



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-179791-1

SDG Number: Weekly: Ka'amilo Wells Pump 1/Pump 2

Login Number: 179791

List Number: 1

Creator: Tran, Kristine

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").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-179791-1
SDG Number: Weekly: Ka'amilo Wells Pump 1/Pump 2

Login Number: 179791

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 10/29/25 06:38 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	2.9
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 <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	