

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly: Ka'amilo Wells P1

JOB NUMBER

380-236604-1

Eurofins Pomona

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

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

Authorization



Authorized for release by
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1145

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Definitions/Glossary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

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: 380-236604-1

Job ID: 380-236604-1

Eurofins Pomona

Job Narrative 380-236604-1

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 9/16/2026 9:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.075		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.016		0.0098	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-2

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-1

Date Collected: 09/14/26 12:06

Matrix: Water

Date Received: 09/16/26 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
2,4'-DDD	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
2,4'-DDE	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
2,4'-DDT	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
2-Methylnaphthalene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
4,4'-DDD	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
4,4'-DDE	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
4,4'-DDT	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Acenaphthene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Acenaphthylene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Acetochlor	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Alachlor	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
alpha-BHC	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
alpha-Chlordane	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Anthracene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 14:32	1
Atrazine	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Benz(a)anthracene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 14:32	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 14:32	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 14:32	1
beta-BHC	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/17/26 09:55	09/18/26 14:32	1
Bromacil	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Butachlor	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Butylbenzylphthalate	<0.49		0.49	ug/L		09/17/26 09:55	09/18/26 14:32	1
Chlorobenzilate	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Chloroneb	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Chlorpyrifos	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Chrysene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 14:32	1
delta-BHC	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/17/26 09:55	09/18/26 14:32	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Dieldrin	0.075		0.0098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Diethylphthalate	<0.49		0.49	ug/L		09/17/26 09:55	09/18/26 14:32	1
Dimethylphthalate	<0.49		0.49	ug/L		09/17/26 09:55	09/18/26 14:32	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		09/17/26 09:55	09/18/26 14:32	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Endosulfan sulfate	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Endrin	<0.0098		0.0098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Endrin aldehyde	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
EPTC	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Fluoranthene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1

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Client Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-1

Date Collected: 09/14/26 12:06

Matrix: Water

Date Received: 09/16/26 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
gamma-Chlordane	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Heptachlor	<0.0098		0.0098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Heptachlor epoxide (isomer B)	0.016		0.0098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Hexachlorobenzene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Isophorone	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Lindane	<0.0098		0.0098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Malathion	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Methoxychlor	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Metolachlor	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Molinate	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Naphthalene	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Parathion	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Phenanthrene	<0.039		0.039	ug/L		09/17/26 09:55	09/18/26 14:32	1
Propachlor	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Pyrene	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Simazine	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Terbacil	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Terbutylazine	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Thiobencarb	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/17/26 09:55	09/18/26 14:32	1
trans-Nonachlor	<0.049		0.049	ug/L		09/17/26 09:55	09/18/26 14:32	1
Trifluralin	<0.098		0.098	ug/L		09/17/26 09:55	09/18/26 14:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/17/26 09:55	09/18/26 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	09/17/26 09:55	09/18/26 14:32	1
Perylene-d12	91		70 - 130	09/17/26 09:55	09/18/26 14:32	1
Triphenylphosphate	104		70 - 130	09/17/26 09:55	09/18/26 14:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Acenaphthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Acenaphthylene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Anthracene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Chrysene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Fluoranthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-1

Date Collected: 09/14/26 12:06

Matrix: Water

Date Received: 09/16/26 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Naphthalene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Phenanthrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1
Pyrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	09/19/26 08:06	09/27/26 16:40	1
2-Fluorobiphenyl (Surr)	82		31 - 120	09/19/26 08:06	09/27/26 16:40	1
2-Fluorophenol (Surr)	48		17 - 120	09/19/26 08:06	09/27/26 16:40	1
Nitrobenzene-d5 (Surr)	92		27 - 120	09/19/26 08:06	09/27/26 16:40	1
Phenol-d6 (Surr)	33		10 - 120	09/19/26 08:06	09/27/26 16:40	1
p-Terphenyl-d14 (Surr)	83		45 - 120	09/19/26 08:06	09/27/26 16:40	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
Methylene Chloride	6.7	T J N	ug/L		1.62	75-09-2	09/19/26 08:06	09/27/26 18:07	1
3-Penten-2-one, 4-methyl-	89	T J N	ug/L		1.79	141-79-7	09/19/26 08:06	09/27/26 18:07	1
2-Pentenal, (E)-	24	T J N	ug/L		2.43	1576-87-0	09/19/26 08:06	09/27/26 18:07	1
Heptane, 4-methyl-	10	T J N	ug/L		2.61	589-53-7	09/19/26 08:06	09/27/26 18:07	1
Cyclohexane, 1-methyl-2-propyl-	7.8	T J N	ug/L		2.63	4291-79-6	09/19/26 08:06	09/27/26 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		33 - 139	09/19/26 08:06	09/27/26 18:07	1
2-Fluorobiphenyl (Surr)	88		33 - 126	09/19/26 08:06	09/27/26 18:07	1
2-Fluorophenol (Surr)	39		12 - 120	09/19/26 08:06	09/27/26 18:07	1
Nitrobenzene-d5 (Surr)	87		36 - 120	09/19/26 08:06	09/27/26 18:07	1
Phenol-d6 (Surr)	27		10 - 120	09/19/26 08:06	09/27/26 18:07	1
p-Terphenyl-d14 (Surr)	87		47 - 131	09/19/26 08:06	09/27/26 18:07	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			09/22/26 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134		09/22/26 20:24	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		09/17/26 21:12	09/20/26 03:34	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/17/26 21:12	09/20/26 03:34	1
C8-C18	<25		25	ug/L		09/17/26 21:12	09/20/26 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		60 - 130	09/17/26 21:12	09/20/26 03:34	1

Euofins Pomona

Client Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-2

Date Collected: 09/14/26 12:06

Matrix: Water

Date Received: 09/16/26 09:47

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			09/22/26 15:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		38 - 134				09/22/26 15:55	1	

Action Limit Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.016		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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)
380-236604-1	Ka'amilo Wells P1 (331-031-WLI	96	91	104
380-236789-CT-1-A MS	Matrix Spike	97	91	108
380-236789-CU-1-A MSD	Matrix Spike Duplicate	98	81	106
LCS 380-253102/23-A	Lab Control Sample	97	96	108
LCSD 380-253102/24-A	Lab Control Sample Dup	97	95	104
MB 380-253102/21-A	Method Blank	96	87	104
MRL 380-253102/22-A	Lab Control Sample	98	91	105

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)
380-236604-1	Ka'amilo Wells P1 (331-031-WLI	68	88	39	87	27	87
MB 570-802543/1-A	Method Blank	82	91	54	86	19	104

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)
380-236599-A-1-D MS	Matrix Spike	85	81	53	66	38	89
380-236599-A-1-E MSD	Matrix Spike Duplicate	76	73	46	61	32	78
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	81	82	48	92	33	83
LCS 570-802543/2-A	Lab Control Sample	78	76	51	72	35	83
LCSD 570-802543/3-A	Lab Control Sample Dup	89	87	66	85	44	95
MB 570-802543/1-A	Method Blank	95	79	49	83	30	79

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)

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Surrogate Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-236599-C-1 MS	Matrix Spike	94
380-236599-C-1 MSD	Matrix Spike Duplicate	97
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	96
380-236604-2	TB: Ka'amilo Wells P1 (331-031-WL008)	88
LCS 570-803805/3	Lab Control Sample	89
LCSD 570-803805/4	Lab Control Sample Dup	87
MB 570-803805/6	Method Blank	80
MRL 570-803805/5	Lab Control Sample	83

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-236599-B-1-A MS	Matrix Spike	116
380-236599-B-1-B MSD	Matrix Spike Duplicate	104
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	98
LCS 570-801871/2-A	Lab Control Sample	108
LCSD 570-801871/3-A	Lab Control Sample Dup	100
MB 570-801871/1-A	Method Blank	106
MRL 570-801871/4-A	Lab Control Sample	124

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MB 380-253102/21-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253102

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
2,4'-DDD	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
2,4'-DDE	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
2,4'-DDT	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
4,4'-DDD	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
4,4'-DDE	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
4,4'-DDT	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Acenaphthene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Acenaphthylene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Acetochlor	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Alachlor	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
alpha-BHC	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
alpha-Chlordane	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Anthracene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 09:50	1
Atrazine	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Benz(a)anthracene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 09:50	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 09:50	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 09:50	1
beta-BHC	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		09/17/26 09:55	09/18/26 09:50	1
Bromacil	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Butachlor	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Butylbenzylphthalate	<0.50		0.50	ug/L		09/17/26 09:55	09/18/26 09:50	1
Chlorobenzilate	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Chloroneb	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Chlorpyrifos	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Chrysene	<0.020		0.020	ug/L		09/17/26 09:55	09/18/26 09:50	1
delta-BHC	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		09/17/26 09:55	09/18/26 09:50	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Dieldrin	<0.0099		0.0099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Diethylphthalate	<0.50		0.50	ug/L		09/17/26 09:55	09/18/26 09:50	1
Dimethylphthalate	<0.50		0.50	ug/L		09/17/26 09:55	09/18/26 09:50	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/17/26 09:55	09/18/26 09:50	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Endrin	<0.0099		0.0099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Endrin aldehyde	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
EPTC	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MB 380-253102/21-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253102

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Fluorene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
gamma-Chlordane	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Heptachlor	<0.0099		0.0099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Hexachlorobenzene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Isophorone	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Lindane	<0.0099		0.0099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Malathion	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Methoxychlor	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Metolachlor	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Molinate	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Naphthalene	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Parathion	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Phenanthrene	<0.040		0.040	ug/L		09/17/26 09:55	09/18/26 09:50	1
Propachlor	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Pyrene	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Simazine	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Terbacil	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Terbutylazine	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Thiobencarb	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/17/26 09:55	09/18/26 09:50	1
trans-Nonachlor	<0.050		0.050	ug/L		09/17/26 09:55	09/18/26 09:50	1
Trifluralin	<0.099		0.099	ug/L		09/17/26 09:55	09/18/26 09:50	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	6.83	T J N	ug/L		3.16	1120-21-4	09/17/26 09:55	09/18/26 09:50	1
Cyclohexasiloxane, dodecamethyl-	0.761	T J N	ug/L		3.91	540-97-6	09/17/26 09:55	09/18/26 09:50	1
Hexadecanamide	0.624	T J N	ug/L		7.06	629-54-9	09/17/26 09:55	09/18/26 09:50	1
9-Octadecenamide, (Z)-	7.56	T J N	ug/L		7.92	301-02-0	09/17/26 09:55	09/18/26 09:50	1
9-Octadecenamide, (Z)-	0.934	T J N	ug/L		8.02	301-02-0	09/17/26 09:55	09/18/26 09:50	1
13-Docosenamide, (Z)-	0.824	T J N	ug/L		10.44	112-84-5	09/17/26 09:55	09/18/26 09:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	09/17/26 09:55	09/18/26 09:50	1
Perylene-d12	87		70 - 130	09/17/26 09:55	09/18/26 09:50	1
Triphenylphosphate	104		70 - 130	09/17/26 09:55	09/18/26 09:50	1

Lab Sample ID: LCS 380-253102/23-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	2.13		ug/L		107	70 - 130
2,4'-DDD	1.99	2.26		ug/L		114	70 - 130

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-253102/23-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.99	2.22		ug/L		112	70 - 130
2,4'-DDT	1.99	2.27		ug/L		114	70 - 130
2,4-Dinitrotoluene	1.99	2.12		ug/L		107	70 - 130
2,6-Dinitrotoluene	1.99	2.15		ug/L		108	70 - 130
2-Methylnaphthalene	1.99	2.10		ug/L		106	70 - 130
4,4'-DDD	1.99	2.34		ug/L		118	70 - 130
4,4'-DDE	1.99	2.16		ug/L		109	70 - 130
4,4'-DDT	1.99	2.25		ug/L		113	70 - 130
Acenaphthene	1.99	2.11		ug/L		106	70 - 130
Acenaphthylene	1.99	1.93		ug/L		97	70 - 130
Acetochlor	1.99	2.28		ug/L		115	70 - 130
Alachlor	1.99	2.28		ug/L		115	70 - 130
alpha-BHC	1.99	2.20		ug/L		111	70 - 130
alpha-Chlordane	1.99	2.22		ug/L		112	70 - 130
Anthracene	1.99	2.04		ug/L		103	70 - 130
Atrazine	1.99	2.22		ug/L		112	70 - 130
Benz(a)anthracene	1.99	2.21		ug/L		111	70 - 130
Benzo[a]pyrene	1.99	2.15		ug/L		108	70 - 130
Benzo[b]fluoranthene	1.99	2.21		ug/L		111	70 - 130
Benzo[g,h,i]perylene	1.99	2.13		ug/L		107	70 - 130
Benzo[k]fluoranthene	1.99	2.23		ug/L		112	70 - 130
beta-BHC	1.99	2.24		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.34		ug/L		118	70 - 130
Bromacil	1.99	2.08		ug/L		105	70 - 130
Butachlor	1.99	2.38		ug/L		120	70 - 130
Butylbenzylphthalate	1.99	2.33		ug/L		117	70 - 130
Chlorobenzilate	1.99	2.22		ug/L		112	70 - 130
Chloroneb	1.99	2.17		ug/L		109	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.22		ug/L		112	70 - 130
Chlorpyrifos	1.99	2.18		ug/L		110	70 - 130
Chrysene	1.99	2.17		ug/L		109	70 - 130
delta-BHC	1.99	2.25		ug/L		113	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.49		ug/L		125	70 - 130
Dibenz(a,h)anthracene	1.99	2.17		ug/L		109	70 - 130
Diclorvos (DDVP)	1.99	2.02		ug/L		102	70 - 130
Dieldrin	1.99	2.20		ug/L		111	70 - 130
Diethylphthalate	1.99	2.27		ug/L		114	70 - 130
Dimethylphthalate	1.99	2.19		ug/L		110	70 - 130
Di-n-butyl phthalate	3.97	4.66		ug/L		117	70 - 130
Di-n-octyl phthalate	1.99	2.24		ug/L		113	70 - 130
Endosulfan I (Alpha)	1.99	2.27		ug/L		114	70 - 130
Endosulfan II (Beta)	1.99	2.25		ug/L		113	70 - 130
Endosulfan sulfate	1.99	2.12		ug/L		107	70 - 130
Endrin	1.99	2.17		ug/L		109	70 - 130
Endrin aldehyde	1.99	2.23		ug/L		112	60 - 130
EPTC	1.99	2.14		ug/L		108	70 - 130
Fluoranthene	1.99	2.19		ug/L		111	70 - 130
Fluorene	1.99	2.13		ug/L		107	70 - 130
gamma-Chlordane	1.99	2.35		ug/L		118	70 - 130

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-253102/23-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.99	2.08		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.24		ug/L		113	70 - 130
Hexachlorobenzene	1.99	2.01		ug/L		101	70 - 130
Hexachlorocyclopentadiene	1.99	2.03		ug/L		102	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.14		ug/L		108	70 - 130
Isophorone	1.99	2.09		ug/L		105	70 - 130
Lindane	1.99	2.24		ug/L		113	70 - 130
Malathion	1.99	2.22		ug/L		112	70 - 130
Methoxychlor	1.99	2.26		ug/L		114	70 - 130
Metolachlor	1.99	2.28		ug/L		115	70 - 130
Molinate	1.99	2.19		ug/L		110	70 - 130
Naphthalene	1.99	2.02		ug/L		102	70 - 130
Parathion	1.99	2.17		ug/L		109	70 - 130
Pendimethalin (Penoxaline)	1.99	2.19		ug/L		110	70 - 130
Phenanthrene	1.99	2.12		ug/L		107	70 - 130
Propachlor	1.99	2.26		ug/L		114	70 - 130
Pyrene	1.99	2.20		ug/L		111	70 - 130
Simazine	1.99	2.18		ug/L		110	70 - 130
Terbacil	1.99	2.07		ug/L		104	70 - 130
Terbutylazine	1.99	2.36		ug/L		119	70 - 130
Thiobencarb	1.99	2.23		ug/L		112	70 - 130
trans-Nonachlor	1.99	2.24		ug/L		113	70 - 130
Trifluralin	1.99	2.09		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: LCSD 380-253102/24-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	2.16		ug/L		110	70 - 130	1	20
2,4'-DDD	1.97	2.23		ug/L		113	70 - 130	1	20
2,4'-DDE	1.97	2.21		ug/L		112	70 - 130	0	20
2,4'-DDT	1.97	2.25		ug/L		114	70 - 130	1	20
2,4-Dinitrotoluene	1.97	2.12		ug/L		108	70 - 130	0	20
2,6-Dinitrotoluene	1.97	2.15		ug/L		109	70 - 130	0	20
2-Methylnaphthalene	1.97	2.15		ug/L		109	70 - 130	2	20
4,4'-DDD	1.97	2.33		ug/L		118	70 - 130	1	20
4,4'-DDE	1.97	2.15		ug/L		109	70 - 130	1	20
4,4'-DDT	1.97	2.25		ug/L		114	70 - 130	0	20
Acenaphthene	1.97	2.13		ug/L		108	70 - 130	1	20
Acenaphthylene	1.97	1.98		ug/L		101	70 - 130	3	20
Acetochlor	1.97	2.28		ug/L		116	70 - 130	0	20
Alachlor	1.97	2.31		ug/L		117	70 - 130	1	20

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCSD 380-253102/24-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-BHC	1.97	2.20		ug/L		112	70 - 130	0	20
alpha-Chlordane	1.97	2.20		ug/L		112	70 - 130	1	20
Anthracene	1.97	2.06		ug/L		105	70 - 130	1	20
Atrazine	1.97	2.19		ug/L		111	70 - 130	1	20
Benz(a)anthracene	1.97	2.18		ug/L		111	70 - 130	2	20
Benzo[a]pyrene	1.97	2.13		ug/L		108	70 - 130	1	20
Benzo[b]fluoranthene	1.97	2.22		ug/L		113	70 - 130	1	20
Benzo[g,h,i]perylene	1.97	2.21		ug/L		112	70 - 130	4	20
Benzo[k]fluoranthene	1.97	2.23		ug/L		113	70 - 130	0	20
beta-BHC	1.97	2.22		ug/L		113	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	1.97	2.41		ug/L		123	70 - 130	3	20
Bromacil	1.97	1.86		ug/L		95	70 - 130	11	20
Butachlor	1.97	2.39		ug/L		122	70 - 130	1	20
Butylbenzylphthalate	1.97	2.35		ug/L		120	70 - 130	1	20
Chlorobenzilate	1.97	2.20		ug/L		112	70 - 130	1	20
Chloroneb	1.97	2.18		ug/L		111	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.97	2.20		ug/L		112	70 - 130	1	20
Chlorpyrifos	1.97	2.21		ug/L		112	70 - 130	1	20
Chrysene	1.97	2.22		ug/L		113	70 - 130	2	20
delta-BHC	1.97	2.26		ug/L		115	70 - 130	0	20
Di(2-ethylhexyl)adipate	1.97	2.49		ug/L		126	70 - 130	0	20
Dibenz(a,h)anthracene	1.97	2.17		ug/L		110	70 - 130	0	20
Diclorvos (DDVP)	1.97	2.04		ug/L		104	70 - 130	1	20
Dieldrin	1.97	2.25		ug/L		114	70 - 130	2	20
Diethylphthalate	1.97	2.28		ug/L		116	70 - 130	1	20
Dimethylphthalate	1.97	2.22		ug/L		113	70 - 130	1	20
Di-n-butyl phthalate	3.94	4.60		ug/L		117	70 - 130	1	20
Di-n-octyl phthalate	1.97	2.28		ug/L		116	70 - 130	2	20
Endosulfan I (Alpha)	1.97	2.25		ug/L		114	70 - 130	1	20
Endosulfan II (Beta)	1.97	2.20		ug/L		112	70 - 130	3	20
Endosulfan sulfate	1.97	2.10		ug/L		107	70 - 130	1	20
Endrin	1.97	2.16		ug/L		110	70 - 130	0	20
Endrin aldehyde	1.97	2.22		ug/L		113	60 - 130	0	20
EPTC	1.97	2.18		ug/L		111	70 - 130	2	20
Fluoranthene	1.97	2.17		ug/L		110	70 - 130	1	20
Fluorene	1.97	2.16		ug/L		110	70 - 130	1	20
gamma-Chlordane	1.97	2.34		ug/L		119	70 - 130	0	20
Heptachlor	1.97	2.09		ug/L		106	70 - 130	0	20
Heptachlor epoxide (isomer B)	1.97	2.20		ug/L		112	70 - 130	2	20
Hexachlorobenzene	1.97	1.98		ug/L		101	70 - 130	1	20
Hexachlorocyclopentadiene	1.97	2.08		ug/L		106	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	1.97	2.14		ug/L		109	70 - 130	0	20
Isophorone	1.97	2.14		ug/L		109	70 - 130	2	20
Lindane	1.97	2.21		ug/L		112	70 - 130	1	20
Malathion	1.97	2.26		ug/L		115	70 - 130	1	20
Methoxychlor	1.97	2.30		ug/L		117	70 - 130	2	20
Metolachlor	1.97	2.31		ug/L		117	70 - 130	1	20
Molinate	1.97	2.22		ug/L		113	70 - 130	1	20
Naphthalene	1.97	2.05		ug/L		104	70 - 130	2	20

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCSD 380-253102/24-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	1.97	2.23		ug/L		113	70 - 130	2	20
Pendimethalin (Penoxaline)	1.97	2.19		ug/L		111	70 - 130	0	20
Phenanthrene	1.97	2.17		ug/L		110	70 - 130	3	20
Propachlor	1.97	2.29		ug/L		116	70 - 130	1	20
Pyrene	1.97	2.18		ug/L		111	70 - 130	1	20
Simazine	1.97	2.08		ug/L		106	70 - 130	4	20
Terbacil	1.97	1.96		ug/L		99	70 - 130	5	20
Terbutylazine	1.97	2.35		ug/L		120	70 - 130	0	20
Thiobencarb	1.97	2.22		ug/L		113	70 - 130	1	20
trans-Nonachlor	1.97	2.24		ug/L		114	70 - 130	0	20
Trifluralin	1.97	2.08		ug/L		106	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: MRL 380-253102/22-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0995	0.105		ug/L		106	50 - 150
2,4'-DDD	0.0995	0.119		ug/L		119	50 - 150
2,4'-DDE	0.0995	0.129		ug/L		130	50 - 150
2,4'-DDT	0.0995	0.135		ug/L		136	50 - 150
2,4-Dinitrotoluene	0.0995	0.118		ug/L		119	50 - 150
2,6-Dinitrotoluene	0.0995	0.126		ug/L		127	50 - 150
2-Methylnaphthalene	0.0995	0.110		ug/L		111	50 - 150
4,4'-DDD	0.0995	0.134		ug/L		135	50 - 150
4,4'-DDE	0.0995	0.122		ug/L		122	50 - 150
4,4'-DDT	0.0995	0.134		ug/L		135	50 - 150
Acenaphthene	0.0995	0.113		ug/L		114	50 - 150
Acenaphthylene	0.0995	0.0904	J	ug/L		91	50 - 150
Acetochlor	0.0995	0.120		ug/L		121	50 - 150
Alachlor	0.0498	0.0686		ug/L		138	50 - 150
alpha-BHC	0.0995	0.126		ug/L		126	50 - 150
alpha-Chlordane	0.0249	0.0347	J	ug/L		140	50 - 150
Anthracene	0.0199	0.0225		ug/L		113	50 - 150
Atrazine	0.0498	0.0670		ug/L		135	50 - 150
Benz(a)anthracene	0.0498	0.0614		ug/L		123	50 - 150
Benzo[a]pyrene	0.0199	0.0184	J	ug/L		93	50 - 150
Benzo[b]fluoranthene	0.0199	0.0228		ug/L		114	50 - 150
Benzo[g,h,i]perylene	0.0498	0.0571		ug/L		115	50 - 150
Benzo[k]fluoranthene	0.0199	0.0231		ug/L		116	50 - 150
beta-BHC	0.0995	0.130		ug/L		130	50 - 150
Bis(2-ethylhexyl) phthalate	0.597	0.771		ug/L		129	50 - 150
Bromacil	0.0995	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: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MRL 380-253102/22-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	0.0498	0.0640		ug/L		129	50 - 150
Butylbenzylphthalate	0.498	0.736		ug/L		148	50 - 150
Chlorobenzilate	0.0995	0.120		ug/L		121	50 - 150
Chloroneb	0.0995	0.126		ug/L		127	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0995	0.123		ug/L		124	50 - 150
Chlorpyrifos	0.0498	0.0634		ug/L		128	50 - 150
Chrysene	0.0199	0.0249		ug/L		125	50 - 150
delta-BHC	0.0995	0.139		ug/L		140	50 - 150
Di(2-ethylhexyl)adipate	0.597	0.851		ug/L		143	50 - 150
Dibenz(a,h)anthracene	0.0498	0.0533		ug/L		107	50 - 150
Diclorvos (DDVP)	0.0498	0.0575		ug/L		116	50 - 150
Dieldrin	0.00995	0.0121		ug/L		122	50 - 150
Diethylphthalate	0.498	0.676		ug/L		136	50 - 150
Dimethylphthalate	0.498	0.643		ug/L		129	50 - 150
Di-n-butyl phthalate	0.498	0.671	J	ug/L		135	49 - 243
Di-n-octyl phthalate	0.0995	0.108		ug/L		108	50 - 150
Endosulfan I (Alpha)	0.0995	0.110		ug/L		110	50 - 150
Endosulfan II (Beta)	0.0995	0.125		ug/L		125	50 - 150
Endosulfan sulfate	0.0995	0.132		ug/L		133	50 - 150
Endrin	0.00995	0.0106		ug/L		107	50 - 150
Endrin aldehyde	0.0995	0.123		ug/L		123	50 - 150
EPTC	0.0995	0.110		ug/L		110	50 - 150
Fluoranthene	0.0995	0.120		ug/L		121	50 - 150
Fluorene	0.0498	0.0580		ug/L		117	50 - 150
gamma-Chlordane	0.0249	0.0322	J	ug/L		129	50 - 150
Heptachlor	0.00995	0.0102		ug/L		102	50 - 150
Heptachlor epoxide (isomer B)	0.00995	0.0144		ug/L		145	50 - 150
Hexachlorobenzene	0.0498	0.0561		ug/L		113	50 - 150
Hexachlorocyclopentadiene	0.0498	0.0614		ug/L		123	50 - 150
Indeno[1,2,3-cd]pyrene	0.0498	0.0538		ug/L		108	50 - 150
Isophorone	0.0995	0.107		ug/L		108	50 - 150
Lindane	0.00995	0.0131		ug/L		132	50 - 150
Malathion	0.0995	0.117		ug/L		118	50 - 150
Methoxychlor	0.0498	0.0650		ug/L		131	50 - 150
Metolachlor	0.0498	0.0646		ug/L		130	50 - 150
Molinate	0.0995	0.125		ug/L		126	50 - 150
Naphthalene	0.0995	0.131		ug/L		132	50 - 150
Parathion	0.0995	0.108		ug/L		109	50 - 150
Pendimethalin (Penoxaline)	0.0995	0.107		ug/L		108	50 - 150
Phenanthrene	0.0398	0.0497		ug/L		125	50 - 150
Propachlor	0.0498	0.0599		ug/L		120	50 - 150
Pyrene	0.0498	0.0602		ug/L		121	50 - 150
Simazine	0.0498	0.0655		ug/L		132	50 - 150
Terbacil	0.0995	0.123		ug/L		123	50 - 150
Terbutylazine	0.0995	0.132		ug/L		132	50 - 150
Thiobencarb	0.0995	0.127		ug/L		128	50 - 150
trans-Nonachlor	0.0249	0.0338	J	ug/L		136	50 - 150
Trifluralin	0.0995	0.111		ug/L		112	50 - 150

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MRL 380-253102/22-A

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253102

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: 380-236789-CT-1-A MS

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.92	2.14		ug/L		111	70 - 130
2,4'-DDD	<0.098		1.92	2.19		ug/L		114	70 - 130
2,4'-DDE	<0.098		1.92	2.06		ug/L		107	70 - 130
2,4'-DDT	<0.098		1.92	2.09		ug/L		109	70 - 130
2,4-Dinitrotoluene	<0.098		1.92	2.17		ug/L		113	70 - 130
2,6-Dinitrotoluene	<0.098		1.92	2.21		ug/L		115	70 - 130
2-Methylnaphthalene	<0.098		1.92	2.13		ug/L		111	70 - 130
4,4'-DDD	<0.098		1.92	2.28		ug/L		119	70 - 130
4,4'-DDE	<0.098		1.92	1.92		ug/L		100	70 - 130
4,4'-DDT	<0.098		1.92	2.04		ug/L		106	70 - 130
Acenaphthene	<0.098		1.92	2.12		ug/L		110	70 - 130
Acenaphthylene	<0.098		1.92	2.03		ug/L		105	70 - 130
Acetochlor	<0.098		1.92	2.34		ug/L		122	70 - 130
Alachlor	<0.049		1.92	2.35		ug/L		122	70 - 130
alpha-BHC	<0.098		1.92	2.23		ug/L		116	70 - 130
alpha-Chlordane	<0.049		1.92	2.18		ug/L		114	70 - 130
Anthracene	<0.020	F2 F1	1.92	1.50		ug/L		78	70 - 130
Atrazine	<0.049		1.92	2.24		ug/L		117	70 - 130
Benz(a)anthracene	<0.049		1.92	2.01		ug/L		105	70 - 130
Benzo[a]pyrene	<0.020		1.92	1.97		ug/L		103	70 - 130
Benzo[b]fluoranthene	<0.020		1.92	2.20		ug/L		115	70 - 130
Benzo[g,h,i]perylene	<0.049		1.92	1.94		ug/L		101	70 - 130
Benzo[k]fluoranthene	<0.020		1.92	2.08		ug/L		109	70 - 130
beta-BHC	<0.098		1.92	2.26		ug/L		118	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.92	1.89		ug/L		98	70 - 130
Bromacil	<0.098		1.92	2.00		ug/L		104	70 - 130
Butachlor	<0.049		1.92	2.43		ug/L		127	70 - 130
Butylbenzylphthalate	<0.49		1.92	2.45		ug/L		128	70 - 130
Chlorobenzilate	<0.098		1.92	2.30		ug/L		120	70 - 130
Chloroneb	<0.098		1.92	2.25		ug/L		117	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.92	2.23		ug/L		116	70 - 130
Chlorpyrifos	<0.049		1.92	2.24		ug/L		117	70 - 130
Chrysene	<0.020		1.92	2.03		ug/L		106	70 - 130
delta-BHC	<0.098		1.92	2.27		ug/L		118	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.92	1.94		ug/L		101	70 - 130
Dibenz(a,h)anthracene	<0.049		1.92	1.83		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.049		1.92	2.12		ug/L		110	70 - 130
Dieldrin	<0.0098		1.92	2.29		ug/L		119	70 - 130
Diethylphthalate	<0.49		1.92	2.35		ug/L		123	70 - 130

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-236789-CT-1-A MS

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.49		1.92	2.23		ug/L		116	70 - 130
Di-n-butyl phthalate	<0.98		3.84	4.84		ug/L		119	70 - 130
Di-n-octyl phthalate	<0.098		1.92	1.75		ug/L		91	70 - 130
Endosulfan I (Alpha)	<0.098		1.92	2.31		ug/L		120	70 - 130
Endosulfan II (Beta)	<0.098		1.92	2.26		ug/L		117	70 - 130
Endosulfan sulfate	<0.098		1.92	2.16		ug/L		113	70 - 130
Endrin	<0.0098		1.92	2.19		ug/L		114	70 - 130
Endrin aldehyde	<0.098		1.92	1.70		ug/L		89	60 - 130
EPTC	<0.098		1.92	2.17		ug/L		113	70 - 130
Fluoranthene	<0.098		1.92	2.21		ug/L		115	70 - 130
Fluorene	<0.049		1.92	2.15		ug/L		112	70 - 130
gamma-Chlordane	<0.049		1.92	2.31		ug/L		120	70 - 130
Heptachlor	<0.0098		1.92	2.16		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.92	2.25		ug/L		117	70 - 130
Hexachlorobenzene	<0.049		1.92	1.98		ug/L		103	70 - 130
Hexachlorocyclopentadiene	<0.049		1.92	2.18		ug/L		114	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.92	1.95		ug/L		101	70 - 130
Isophorone	<0.098		1.92	2.12		ug/L		110	70 - 130
Lindane	<0.0098		1.92	2.26		ug/L		118	70 - 130
Malathion	<0.098		1.92	2.31		ug/L		120	70 - 130
Methoxychlor	<0.049	F1	1.92	2.57	F1	ug/L		134	70 - 130
Metolachlor	<0.049		1.92	2.38		ug/L		124	70 - 130
Molinate	<0.098		1.92	2.21		ug/L		115	70 - 130
Naphthalene	<0.098		1.92	2.04		ug/L		106	70 - 130
Parathion	<0.098		1.92	2.26		ug/L		118	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.92	2.25		ug/L		117	70 - 130
Phenanthrene	<0.039		1.92	2.17		ug/L		113	70 - 130
Propachlor	<0.049		1.92	2.30		ug/L		120	70 - 130
Pyrene	<0.049		1.92	2.19		ug/L		114	70 - 130
Simazine	<0.049		1.92	2.19		ug/L		114	70 - 130
Terbacil	<0.098		1.92	2.05		ug/L		107	70 - 130
Terbutylazine	<0.098		1.92	2.32		ug/L		121	70 - 130
Thiobencarb	<0.098		1.92	2.26		ug/L		118	70 - 130
trans-Nonachlor	<0.049		1.92	2.19		ug/L		114	70 - 130
Trifluralin	<0.098		1.92	2.15		ug/L		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-236789-CU-1-A MSD

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.098		1.95	2.19		ug/L		113	70 - 130	3	20
2,4'-DDD	<0.098		1.95	2.21		ug/L		114	70 - 130	1	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-236789-CU-1-A MSD

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4'-DDE	<0.098		1.95	2.10		ug/L		108	70 - 130	2	20
2,4'-DDT	<0.098		1.95	2.13		ug/L		110	70 - 130	2	20
2,4-Dinitrotoluene	<0.098		1.95	2.27		ug/L		117	70 - 130	5	20
2,6-Dinitrotoluene	<0.098		1.95	2.29		ug/L		117	70 - 130	4	20
2-Methylnaphthalene	<0.098		1.95	2.17		ug/L		112	70 - 130	2	20
4,4'-DDD	<0.098		1.95	2.30		ug/L		118	70 - 130	1	20
4,4'-DDE	<0.098		1.95	2.00		ug/L		103	70 - 130	4	20
4,4'-DDT	<0.098		1.95	2.11		ug/L		109	70 - 130	3	20
Acenaphthene	<0.098		1.95	2.17		ug/L		112	70 - 130	2	20
Acenaphthylene	<0.098		1.95	2.00		ug/L		103	70 - 130	1	20
Acetochlor	<0.098		1.95	2.37		ug/L		122	70 - 130	1	20
Alachlor	<0.049		1.95	2.39		ug/L		123	70 - 130	2	20
alpha-BHC	<0.098		1.95	2.31		ug/L		119	70 - 130	4	20
alpha-Chlordane	<0.049		1.95	2.23		ug/L		114	70 - 130	2	20
Anthracene	<0.020	F2 F1	1.95	0.493	F2 F1	ug/L		25	70 - 130	101	20
Atrazine	<0.049		1.95	2.31		ug/L		119	70 - 130	3	20
Benz(a)anthracene	<0.049		1.95	1.89		ug/L		97	70 - 130	6	20
Benzo[a]pyrene	<0.020		1.95	1.65		ug/L		85	70 - 130	18	20
Benzo[b]fluoranthene	<0.020		1.95	2.29		ug/L		118	70 - 130	4	20
Benzo[g,h,i]perylene	<0.049		1.95	2.07		ug/L		106	70 - 130	6	20
Benzo[k]fluoranthene	<0.020		1.95	2.11		ug/L		109	70 - 130	1	20
beta-BHC	<0.098		1.95	2.33		ug/L		120	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	<0.59		1.95	1.99		ug/L		102	70 - 130	5	20
Bromacil	<0.098		1.95	2.18		ug/L		112	70 - 130	8	20
Butachlor	<0.049		1.95	2.44		ug/L		125	70 - 130	0	20
Butylbenzylphthalate	<0.49		1.95	2.39		ug/L		123	70 - 130	3	20
Chlorobenzilate	<0.098		1.95	2.31		ug/L		119	70 - 130	1	20
Chloroneb	<0.098		1.95	2.27		ug/L		117	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.098		1.95	2.24		ug/L		115	70 - 130	0	20
Chlorpyrifos	<0.049		1.95	2.36		ug/L		121	70 - 130	5	20
Chrysene	<0.020		1.95	2.09		ug/L		108	70 - 130	3	20
delta-BHC	<0.098		1.95	2.29		ug/L		118	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.59		1.95	2.07		ug/L		106	70 - 130	7	20
Dibenz(a,h)anthracene	<0.049		1.95	1.94		ug/L		99	70 - 130	5	20
Diclorvos (DDVP)	<0.049		1.95	2.19		ug/L		112	70 - 130	3	20
Dieldrin	<0.0098		1.95	2.24		ug/L		115	70 - 130	2	20
Diethylphthalate	<0.49		1.95	2.43		ug/L		125	70 - 130	3	20
Dimethylphthalate	<0.49		1.95	2.30		ug/L		118	70 - 130	3	20
Di-n-butyl phthalate	<0.98		3.89	5.01		ug/L		122	70 - 130	3	20
Di-n-octyl phthalate	<0.098		1.95	1.85		ug/L		95	70 - 130	5	20
Endosulfan I (Alpha)	<0.098		1.95	2.32		ug/L		119	70 - 130	1	20
Endosulfan II (Beta)	<0.098		1.95	2.24		ug/L		115	70 - 130	0	20
Endosulfan sulfate	<0.098		1.95	2.13		ug/L		110	70 - 130	1	20
Endrin	<0.0098		1.95	2.24		ug/L		115	70 - 130	2	20
Endrin aldehyde	<0.098		1.95	1.99		ug/L		102	60 - 130	15	20
EPTC	<0.098		1.95	2.26		ug/L		116	70 - 130	4	20
Fluoranthene	<0.098		1.95	2.21		ug/L		114	70 - 130	0	20
Fluorene	<0.049		1.95	2.22		ug/L		114	70 - 130	3	20
gamma-Chlordane	<0.049		1.95	2.31		ug/L		119	70 - 130	0	20

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-236789-CU-1-A MSD

Matrix: Water

Analysis Batch: 253331

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 253102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor	<0.0098		1.95	2.12		ug/L		109	70 - 130	2	20
Heptachlor epoxide (isomer B)	<0.0098		1.95	2.28		ug/L		117	70 - 130	1	20
Hexachlorobenzene	<0.049		1.95	2.03		ug/L		104	70 - 130	3	20
Hexachlorocyclopentadiene	<0.049		1.95	2.16		ug/L		111	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	<0.049		1.95	2.10		ug/L		108	70 - 130	7	20
Isophorone	<0.098		1.95	2.20		ug/L		113	70 - 130	4	20
Lindane	<0.0098		1.95	2.35		ug/L		121	70 - 130	4	20
Malathion	<0.098		1.95	2.34		ug/L		120	70 - 130	2	20
Methoxychlor	<0.049	F1	1.95	2.56	F1	ug/L		132	70 - 130	0	20
Metolachlor	<0.049		1.95	2.40		ug/L		123	70 - 130	1	20
Molinate	<0.098		1.95	2.31		ug/L		119	70 - 130	4	20
Naphthalene	<0.098		1.95	2.09		ug/L		107	70 - 130	2	20
Parathion	<0.098		1.95	2.26		ug/L		116	70 - 130	0	20
Pendimethalin (Penoxaline)	<0.098		1.95	2.26		ug/L		116	70 - 130	0	20
Phenanthrene	<0.039		1.95	2.17		ug/L		112	70 - 130	0	20
Propachlor	<0.049		1.95	2.42		ug/L		124	70 - 130	5	20
Pyrene	<0.049		1.95	2.17		ug/L		111	70 - 130	1	20
Simazine	<0.049		1.95	2.24		ug/L		115	70 - 130	2	20
Terbacil	<0.098		1.95	2.13		ug/L		109	70 - 130	3	20
Terbutylazine	<0.098		1.95	2.45		ug/L		126	70 - 130	5	20
Thiobencarb	<0.098		1.95	2.29		ug/L		117	70 - 130	1	20
trans-Nonachlor	<0.049		1.95	2.21		ug/L		114	70 - 130	1	20
Trifluralin	<0.098		1.95	2.20		ug/L		113	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	81		70 - 130
Triphenylphosphate	106		70 - 130

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

Lab Sample ID: MB 570-802543/1-A

Matrix: Water

Analysis Batch: 806430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 802543

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	09/19/26 08:06	09/27/26 16:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		33 - 139				09/19/26 08:06	09/27/26 16:06	1
2-Fluorobiphenyl (Surr)	91		33 - 126				09/19/26 08:06	09/27/26 16:06	1
2-Fluorophenol (Surr)	54		12 - 120				09/19/26 08:06	09/27/26 16:06	1
Nitrobenzene-d5 (Surr)	86		36 - 120				09/19/26 08:06	09/27/26 16:06	1
Phenol-d6 (Surr)	19		10 - 120				09/19/26 08:06	09/27/26 16:06	1
p-Terphenyl-d14 (Surr)	104		47 - 131				09/19/26 08:06	09/27/26 16:06	1

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MB 570-802543/1-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 802543

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
2-Methylnaphthalene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Acenaphthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Acenaphthylene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Anthracene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[a]anthracene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[a]pyrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Chrysene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Fluoranthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Fluorene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Naphthalene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Phenanthrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Pyrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		28 - 127	09/19/26 08:06	09/25/26 08:02	1
2-Fluorobiphenyl (Surr)	79		31 - 120	09/19/26 08:06	09/25/26 08:02	1
2-Fluorophenol (Surr)	49		17 - 120	09/19/26 08:06	09/25/26 08:02	1
Nitrobenzene-d5 (Surr)	83		27 - 120	09/19/26 08:06	09/25/26 08:02	1
Phenol-d6 (Surr)	30		10 - 120	09/19/26 08:06	09/25/26 08:02	1
p-Terphenyl-d14 (Surr)	79		45 - 120	09/19/26 08:06	09/25/26 08:02	1

Lab Sample ID: LCS 570-802543/2-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.9		ug/L		70	47 - 120
2-Methylnaphthalene	20.0	14.0		ug/L		70	43 - 120
Acenaphthene	20.0	14.9		ug/L		75	60 - 132
Acenaphthylene	20.0	15.0		ug/L		75	54 - 126
Anthracene	20.0	15.5		ug/L		77	43 - 120
Benzo[a]anthracene	20.0	16.4		ug/L		82	42 - 133
Benzo[a]pyrene	20.0	16.8		ug/L		84	32 - 148
Benzo[b]fluoranthene	20.0	16.6		ug/L		83	42 - 140
Benzo[g,h,i]perylene	20.0	15.9		ug/L		79	1 - 195
Benzo[k]fluoranthene	20.0	16.3		ug/L		82	25 - 146
Chrysene	20.0	15.9		ug/L		79	44 - 140
Dibenz(a,h)anthracene	20.0	16.2		ug/L		81	1 - 200
Fluoranthene	20.0	16.2		ug/L		81	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.9		ug/L		80	1 - 151
Naphthalene	20.0	13.4		ug/L		67	36 - 120

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QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 570-802543/2-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	16.1		ug/L		80	65 - 120
Pyrene	20.0	17.7		ug/L		89	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-802543/3-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	15.7		ug/L		78	47 - 120	12	20
2-Methylnaphthalene	20.0	15.9		ug/L		80	43 - 120	13	20
Acenaphthene	20.0	16.9		ug/L		85	60 - 132	12	29
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126	12	45
Anthracene	20.0	17.5		ug/L		87	43 - 120	12	40
Benzo[a]anthracene	20.0	18.6		ug/L		93	42 - 133	13	32
Benzo[a]pyrene	20.0	19.1		ug/L		96	32 - 148	13	43
Benzo[b]fluoranthene	20.0	18.7		ug/L		93	42 - 140	12	43
Benzo[g,h,i]perylene	20.0	17.8		ug/L		89	1 - 195	11	61
Benzo[k]fluoranthene	20.0	18.1		ug/L		90	25 - 146	10	38
Chrysene	20.0	18.0		ug/L		90	44 - 140	12	53
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	1 - 200	10	75
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	11	40
Fluorene	20.0	17.3		ug/L		86	70 - 120	11	23
Indeno[1,2,3-cd]pyrene	20.0	17.8		ug/L		89	1 - 151	11	60
Naphthalene	20.0	15.4		ug/L		77	36 - 120	14	39
Phenanthrene	20.0	18.1		ug/L		90	65 - 120	12	24
Pyrene	20.0	20.0		ug/L		100	70 - 120	12	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	95		45 - 120

QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-236599-A-1-D MS

Matrix: Water

Analysis Batch: 806409

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.1	12.3		ug/L		65	36 - 120
2-Methylnaphthalene	<0.19		19.1	12.5		ug/L		65	32 - 124
Acenaphthene	<0.19		19.1	15.7		ug/L		82	47 - 145
Acenaphthylene	<0.19		19.1	16.0		ug/L		84	33 - 145
Anthracene	<0.19		19.1	16.4		ug/L		86	27 - 133
Benzo[a]anthracene	<0.19		19.1	17.8		ug/L		93	33 - 143
Benzo[a]pyrene	<0.19		19.1	16.8		ug/L		88	17 - 163
Benzo[b]fluoranthene	<0.19		19.1	16.5		ug/L		86	24 - 159
Benzo[g,h,i]perylene	<0.19		19.1	16.0		ug/L		84	1 - 219
Benzo[k]fluoranthene	<0.19		19.1	17.4		ug/L		91	11 - 162
Chrysene	<0.19		19.1	16.9		ug/L		88	17 - 168
Dibenz(a,h)anthracene	<0.19		19.1	16.0		ug/L		84	1 - 227
Fluoranthene	<0.19		19.1	17.4		ug/L		91	26 - 137
Fluorene	<0.19		19.1	16.5		ug/L		86	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.1	15.7		ug/L		82	1 - 171
Naphthalene	<0.19		19.1	11.3		ug/L		59	21 - 133
Phenanthrene	<0.19		19.1	15.6		ug/L		82	54 - 120
Pyrene	<0.19		19.1	17.6		ug/L		92	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: 380-236599-A-1-E MSD

Matrix: Water

Analysis Batch: 806409

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.3	11.6		ug/L		60	36 - 120	7	30
2-Methylnaphthalene	<0.19		19.3	11.8		ug/L		61	32 - 124	6	30
Acenaphthene	<0.19		19.3	14.0		ug/L		72	47 - 145	11	48
Acenaphthylene	<0.19		19.3	14.5		ug/L		75	33 - 145	10	74
Anthracene	<0.19		19.3	14.8		ug/L		76	27 - 133	10	66
Benzo[a]anthracene	<0.19		19.3	15.8		ug/L		82	33 - 143	12	53
Benzo[a]pyrene	<0.19		19.3	14.8		ug/L		77	17 - 163	12	72
Benzo[b]fluoranthene	<0.19		19.3	14.1		ug/L		73	24 - 159	16	71
Benzo[g,h,i]perylene	<0.19		19.3	14.2		ug/L		73	1 - 219	12	97
Benzo[k]fluoranthene	<0.19		19.3	15.8		ug/L		82	11 - 162	10	63
Chrysene	<0.19		19.3	14.8		ug/L		76	17 - 168	13	87
Dibenz(a,h)anthracene	<0.19		19.3	14.2		ug/L		73	1 - 227	12	126
Fluoranthene	<0.19		19.3	15.6		ug/L		81	26 - 137	10	66
Fluorene	<0.19		19.3	14.9		ug/L		77	59 - 121	10	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	13.9		ug/L		72	1 - 171	12	99
Naphthalene	<0.19		19.3	10.5		ug/L		54	21 - 133	7	65

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-236599-A-1-E MSD

Matrix: Water

Analysis Batch: 806409

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.3	14.0		ug/L		72	54 - 120	11	39
Pyrene	<0.19		19.3	15.7		ug/L		81	52 - 120	11	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	76		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	46		17 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	78		45 - 120

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

Lab Sample ID: MB 570-803805/6

Matrix: Water

Analysis Batch: 803805

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			09/22/26 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		09/22/26 12:57	1

Lab Sample ID: LCS 570-803805/3

Matrix: Water

Analysis Batch: 803805

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	376		ug/L		94	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		38 - 134

Lab Sample ID: LCSD 570-803805/4

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	368		ug/L		92	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MRL 570-803805/5

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	11.4		ug/L		114	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	83		38 - 134								

Lab Sample ID: 380-236599-C-1 MS

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	361		ug/L		90	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		38 - 134								

Lab Sample ID: 380-236599-C-1 MSD

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	335		ug/L		84	68 - 122	7	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		38 - 134								

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

Lab Sample ID: MB 570-801871/1-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 801871

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/17/26 21:12	09/20/26 00:20	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/17/26 21:12	09/20/26 00:20	1
C8-C18	<25		25	ug/L		09/17/26 21:12	09/20/26 00:20	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
%Recovery	Qualifier							
n-Octacosane (Surr)	106		60 - 130	09/17/26 21:12	09/20/26 00:20	1		

Lab Sample ID: LCS 570-801871/2-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1340		ug/L		84	56 - 127

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 570-801871/2-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801871

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	108		60 - 130

Lab Sample ID: LCSD 570-801871/3-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 801871

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28			1600	1260		ug/L		79	56 - 127	6	23

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	100		60 - 130

Lab Sample ID: MRL 570-801871/4-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801871

			Spike	MRL	MRL					
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	
									Limits	
C10-C28			0.0200	0.0242	J	mg/L		121	50 - 150	

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	124		60 - 130

Lab Sample ID: 380-236599-B-1-A MS

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 801871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1670	1520		ua/L		91	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	116		60 - 130

Lab Sample ID: 380-236599-B-1-B MSD

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 801871

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<26		1650	1360		ug/L		82	70 - 130	11	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	104		60 - 130

QC Association Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

GC/MS Semi VOA

Prep Batch: 253102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	525.2	
MB 380-253102/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-253102/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-253102/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-253102/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-236789-CT-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-236789-CU-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 253331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	525.2	253102
MB 380-253102/21-A	Method Blank	Total/NA	Water	525.2	253102
LCS 380-253102/23-A	Lab Control Sample	Total/NA	Water	525.2	253102
LCSD 380-253102/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	253102
MRL 380-253102/22-A	Lab Control Sample	Total/NA	Water	525.2	253102
380-236789-CT-1-A MS	Matrix Spike	Total/NA	Water	525.2	253102
380-236789-CU-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	253102

Prep Batch: 802543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	625.1	
MB 570-802543/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-802543/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-802543/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-236599-A-1-D MS	Matrix Spike	Total/NA	Water	625.1	
380-236599-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 805637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-802543/1-A	Method Blank	Total/NA	Water	625.1 SIM	802543
LCS 570-802543/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	802543
LCSD 570-802543/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	802543

Analysis Batch: 806409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	625.1 SIM	802543
380-236599-A-1-D MS	Matrix Spike	Total/NA	Water	625.1 SIM	802543
380-236599-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	802543

Analysis Batch: 806430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	625.1	802543
MB 570-802543/1-A	Method Blank	Total/NA	Water	625.1	802543

GC VOA

Analysis Batch: 803805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	8015B GRO LL	
380-236604-2	TB: Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	8015B GRO LL	
MB 570-803805/6	Method Blank	Total/NA	Water	8015B GRO LL	

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QC Association Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

GC VOA (Continued)

Analysis Batch: 803805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-803805/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-803805/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-803805/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-236599-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-236599-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 801871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	3510C	
MB 570-801871/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-801871/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-801871/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-801871/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-236599-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-236599-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 802726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	8015B	801871
MB 570-801871/1-A	Method Blank	Total/NA	Water	8015B	801871
LCS 570-801871/2-A	Lab Control Sample	Total/NA	Water	8015B	801871
LCSD 570-801871/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	801871
MRL 570-801871/4-A	Lab Control Sample	Total/NA	Water	8015B	801871
380-236599-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	801871
380-236599-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	801871

Lab Chronicle

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-1

Date Collected: 09/14/26 12:06

Matrix: Water

Date Received: 09/16/26 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			253102	OTM3	EA POM	09/17/26 09:55
Total/NA	Analysis	525.2		1	253331	Q8LA	EA POM	09/18/26 14:32
Total/NA	Prep	625.1			802543	KLZQ	EET CAL 4	09/19/26 08:06
Total/NA	Analysis	625.1		1	806430	S4EA	EET CAL 4	09/27/26 18:07
Total/NA	Prep	625.1			802543	KLZQ	EET CAL 4	09/19/26 08:06
Total/NA	Analysis	625.1 SIM		1	806409	S4EA	EET CAL 4	09/27/26 16:40
Total/NA	Analysis	8015B GRO LL		1	803805	A9VE	EET CAL 4	09/22/26 20:24
Total/NA	Prep	3510C			801871	ATRL	EET CAL 4	09/17/26 21:12
Total/NA	Analysis	8015B		1	802726	H6FE	EET CAL 4	09/20/26 03:34

Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)

Lab Sample ID: 380-236604-2

Date Collected: 09/14/26 12:06

Matrix: Water

Date Received: 09/16/26 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	803805	A9VE	EET CAL 4	09/22/26 15:55

Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-27
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. 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	03-02-27
Arizona	State	AZ0830	11-16-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-29-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

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

Job ID: 380-236604-1
SDG: Weekly: Ka'amilo Wells P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-236604-1	Ka'amilo Wells P1 (331-031-WL008)	Water	09/14/26 12:06	09/16/26 09:47	Hawaii
380-236604-2	TB: Ka'amilo Wells P1 (331-031-WL008)	Water	09/14/26 12:06	09/16/26 09:47	Hawaii

- 1
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Chain of Custody Record



Environ



380-236604 COC

Client Information		Sampler: bailey		Lab PM: Lopez, Maria		Carrier Tracking No(s):		COC No:	
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Maria.Lopez@et.eurofins.com		State of Origin:		Page:	
Company: City & County of Honolulu		PWSID:		Due Date Requested:		Analysis Requested		Job #:	
Address: 630 South Beretania Street Chemistry Lab		TAT Requested (days):		Compliance Project: Δ Yes Δ No		Field Filtered Sample (Yes or No)		Preservation Codes:	
City: Honolulu		State, Zip: HI, 96843		PO #: C20525101 exp 05312023		Perform M&MSD (Yes or No)		R - NaThioSO4	
Phone: 808-748-5840 (Tel)		Email: kiwamoto@hbws.org		Project #: 38001111		6015B_DRO_LL_C9 - HNL Ranges C10-C24/C26-C18		RA - NaThioHCl	
Site: Hawaii		SSOW#:		Sample Date		Sample Time		Q - Na2SO3	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		QA - Na2SO3/HCl	
Ka'amilo Wells P1 (331-031-WL008)		14-Sep-2026		1206		G		Y - Triana	
Ka'amilo Wells Pump 1 (Matrix Spike)								I - NH4 Acetate	
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)								Other:	
TB: Ka'amilo Wells P1 (331-031-WL008)		14-Sep-2026		1206				Special Instructions/Note:	
								Total Number of containers	
								533 - All Analytes	
								537.1_DW_PREC - 537.1 Full List	
								525.2_PREC - (MOD) 525plus Plus Tics	
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941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record



F1 Loc: 380

236604

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-236604-1

SDG Number: Weekly: Ka'amilo Wells P1

Login Number: 236604

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
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: 380-236604-1
SDG Number: Weekly: Ka'amilo Wells P1

Login Number: 236604

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 09/16/26 07:27 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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
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 $<6\text{mm}$ (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	