

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Moanalua Wells
RUSH Weekly Red Hill

JOB NUMBER

380-169544-1

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



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Definitions/Glossary

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) 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.

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: 380-169544-1

Job ID: 380-169544-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-169544-1

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 9/4/2025 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.9°C, 2.1°C, 3.6°C, 4.4°C, 4.8°C and 7.2°C.

Receipt Exceptions

One cooler was received at 7.2°C. Two bottles for 625.1 and 625.1_SIM for MOANALUA WELLS (331-223-TP202) (380-169544-1) were received above temperature for compliance purpose. The analysis for 625.1 and 625.1_SIM were canceled. The sample is collected weekly thus follow up sample was collected on 09/08/25 under job # 380-170530. Analysis for 625.1 and 625.1_SIM is currently in progress. (XWB4)

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

Method 8015B_GRO_LL for MOANALUA WELLS (331-223-TP202) (380-169544-1) and TB:MOANALUA WELLS (331-223-TP202) (380-169544-2) collected on 09/02/25 is a resample for, 8015B_GRO_LL for Moanalua Wells P1 (380-167044-1), TB: Moanalua Wells (380-167044-2) collected on 08/18/25. (XWB4)

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: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169544-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.033		0.0099	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-169544-2

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: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169544-1

Date Collected: 09/02/25 10:13

Matrix: Drinking Water

Date Received: 09/04/25 09:56

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
2,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
2,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
2,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
4,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
4,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
4,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Acenaphthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Acenaphthylene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Acetochlor	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Alachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
alpha-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
alpha-Chlordane	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Anthracene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 16:50	1
Atrazine	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Benz(a)anthracene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 16:50	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 16:50	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 16:50	1
beta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/05/25 06:34	09/05/25 16:50	1
Bromacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Butachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Butylbenzylphthalate	<0.49		0.49	ug/L		09/05/25 06:34	09/05/25 16:50	1
Chlorobenzilate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Chloroneb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Chlorpyrifos	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Chrysene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 16:50	1
delta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/05/25 06:34	09/05/25 16:50	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Dieldrin	0.033		0.0099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Diethylphthalate	<0.49		0.49	ug/L		09/05/25 06:34	09/05/25 16:50	1
Dimethylphthalate	<0.49		0.49	ug/L		09/05/25 06:34	09/05/25 16:50	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/05/25 06:34	09/05/25 16:50	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Endrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Endrin aldehyde	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
EPTC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Fluoranthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1

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Client Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169544-1

Date Collected: 09/02/25 10:13

Matrix: Drinking Water

Date Received: 09/04/25 09:56

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
gamma-Chlordane	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Heptachlor	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Hexachlorobenzene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Isophorone	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Lindane	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Malathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Methoxychlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Metolachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Molinate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Naphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Parathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Phenanthrene	<0.040		0.040	ug/L		09/05/25 06:34	09/05/25 16:50	1
Propachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Pyrene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Simazine	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Terbacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Terbutylazine	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Thiobencarb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/05/25 06:34	09/05/25 16:50	1
trans-Nonachlor	<0.049	^+	0.049	ug/L		09/05/25 06:34	09/05/25 16:50	1
Trifluralin	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 16:50	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/05/25 06:34	09/05/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	93		70 - 130	09/05/25 06:34	09/05/25 16:50	1
Perylene-d12	89		70 - 130	09/05/25 06:34	09/05/25 16:50	1
Triphenylphosphate	96		70 - 130	09/05/25 06:34	09/05/25 16:50	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			09/07/25 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		38 - 134		09/07/25 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/08/25 14:16	09/14/25 21:51	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/08/25 14:16	09/14/25 21:51	1
C8-C18	<25		25	ug/L		09/08/25 14:16	09/14/25 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	88		60 - 130	09/08/25 14:16	09/14/25 21:51	1

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Client Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169544-2

Date Collected: 09/02/25 10:13

Matrix: Water

Date Received: 09/04/25 09:56

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			09/07/25 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		38 - 134		09/07/25 21:10	1

Action Limit Summary

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169544-1

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	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	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	<0.0099		ug/L	0.2	0.0099	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

Surrogate Summary

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-169544-1	MOANALUA WELLS (331-223-T	93	89	96

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-169525-H-1-A MS	Matrix Spike	94	95	107
380-169530-H-1-A DU	Duplicate	96	90	105
LCS 380-172509/23-A	Lab Control Sample	93	94	105
LCSD 380-172509/24-A	Lab Control Sample Dup	93	93	105
MB 380-172509/21-A	Method Blank	95	89	103
MRL 380-172509/22-A	Lab Control Sample	93	85	106

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (38-134)		
380-169544-1	MOANALUA WELLS (331-223-T	73		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (38-134)		
380-169530-C-1 MS	Matrix Spike	87		
380-169530-C-1 MSD	Matrix Spike Duplicate	86		
380-169544-2	TB:MOANALUA WELLS (331-223-TP202)	69		
LCS 570-622036/4	Lab Control Sample	82		
LCSD 570-622036/5	Lab Control Sample Dup	90		
MB 570-622036/6	Method Blank	67		
MRL 570-622036/3	Lab Control Sample	72		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-169544-1	MOANALUA WELLS (331-223-T	88

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-169530-B-1-A MS	Matrix Spike	85
380-169530-B-1-B MSD	Matrix Spike Duplicate	81
LCS 570-622477/2-A	Lab Control Sample	91
LCSD 570-622477/3-A	Lab Control Sample Dup	97
MB 570-622477/1-A	Method Blank	86
MRL 570-622477/4-A	Lab Control Sample	87

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-172509/21-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172509

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
4,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
4,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
4,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Acenaphthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Acenaphthylene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Acetochlor	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Alachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
alpha-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
alpha-Chlordane	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Anthracene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
Atrazine	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benz(a)anthracene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
beta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		09/05/25 06:34	09/05/25 14:26	1
Bromacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Butachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Butylbenzylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chlorobenzilate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chloroneb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chlorpyrifos	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chrysene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
delta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		09/05/25 06:34	09/05/25 14:26	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Dieldrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Diethylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 14:26	1
Dimethylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 14:26	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/05/25 06:34	09/05/25 14:26	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endrin aldehyde	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
EPTC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1

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QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-172509/21-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172509

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Fluorene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
gamma-Chlordane	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Heptachlor	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Hexachlorobenzene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Isophorone	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Lindane	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Malathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Methoxychlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Metolachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Molinate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Naphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Parathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Phenanthrene	<0.040		0.040	ug/L		09/05/25 06:34	09/05/25 14:26	1
Propachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Pyrene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Simazine	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Terbacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Terbutylazine	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Thiobencarb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/05/25 06:34	09/05/25 14:26	1
trans-Nonachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Trifluralin	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane	2.24	T J N	ug/L		2.69	124-18-5	09/05/25 06:34	09/05/25 14:26	1
Phenol, p-tert-butyl-	0.624	T J N	ug/L		3.78	98-54-4	09/05/25 06:34	09/05/25 14:26	1
9-Octadecenamide, (Z)-	1.00	T J N	ug/L		7.75	301-02-0	09/05/25 06:34	09/05/25 14:26	1
13-Docosenamide, (Z)-	0.597	T J N	ug/L		10.25	112-84-5	09/05/25 06:34	09/05/25 14:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	09/05/25 06:34	09/05/25 14:26	1
Perylene-d12	89		70 - 130	09/05/25 06:34	09/05/25 14:26	1
Triphenylphosphate	103		70 - 130	09/05/25 06:34	09/05/25 14:26	1

Lab Sample ID: LCS 380-172509/23-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.86		ug/L		94	70 - 130
2,4'-DDD	1.98	2.18		ug/L		110	70 - 130
2,4'-DDE	1.98	2.06		ug/L		104	70 - 130
2,4'-DDT	1.98	1.97		ug/L		99	70 - 130

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QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-172509/23-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.98	1.91		ug/L		96	70 - 130
2,6-Dinitrotoluene	1.98	1.73		ug/L		87	70 - 130
2-Methylnaphthalene	1.98	1.87		ug/L		94	70 - 130
4,4'-DDD	1.98	2.12		ug/L		107	70 - 130
4,4'-DDE	1.98	2.03		ug/L		102	70 - 130
4,4'-DDT	1.98	1.92		ug/L		97	70 - 130
Acenaphthene	1.98	1.87		ug/L		95	70 - 130
Acenaphthylene	1.98	1.99		ug/L		101	70 - 130
Acetochlor	1.98	2.13		ug/L		107	70 - 130
Alachlor	1.98	2.06		ug/L		104	70 - 130
alpha-BHC	1.98	1.92		ug/L		97	70 - 130
alpha-Chlordane	1.98	2.34		ug/L		118	70 - 130
Anthracene	1.98	1.79		ug/L		90	70 - 130
Atrazine	1.98	2.08		ug/L		105	70 - 130
Benz(a)anthracene	1.98	1.89		ug/L		95	70 - 130
Benzo[a]pyrene	1.98	2.05		ug/L		103	70 - 130
Benzo[b]fluoranthene	1.98	2.04		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.98	1.81		ug/L		91	70 - 130
Benzo[k]fluoranthene	1.98	2.14		ug/L		108	70 - 130
beta-BHC	1.98	2.00		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.78		ug/L		90	70 - 130
Bromacil	1.98	1.92		ug/L		97	70 - 130
Butachlor	1.98	1.99		ug/L		100	70 - 130
Butylbenzylphthalate	1.98	1.94		ug/L		98	70 - 130
Chlorobenzilate	1.98	1.94		ug/L		98	70 - 130
Chloroneb	1.98	2.01		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.16		ug/L		109	70 - 130
Chlorpyrifos	1.98	2.12		ug/L		107	70 - 130
Chrysene	1.98	1.97		ug/L		100	70 - 130
delta-BHC	1.98	1.89		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	1.98	1.89		ug/L		95	70 - 130
Dibenz(a,h)anthracene	1.98	1.90		ug/L		96	70 - 130
Diclorvos (DDVP)	1.98	2.06		ug/L		104	70 - 130
Dieldrin	1.98	2.03		ug/L		103	70 - 130
Diethylphthalate	1.98	2.07		ug/L		104	70 - 130
Dimethylphthalate	1.98	1.98		ug/L		100	70 - 130
Di-n-butyl phthalate	3.96	4.39		ug/L		111	70 - 130
Di-n-octyl phthalate	1.98	1.94		ug/L		98	70 - 130
Endosulfan I (Alpha)	1.98	2.00		ug/L		101	70 - 130
Endosulfan II (Beta)	1.98	1.91		ug/L		96	70 - 130
Endosulfan sulfate	1.98	1.96		ug/L		99	70 - 130
Endrin	1.98	2.28		ug/L		115	70 - 130
Endrin aldehyde	1.98	1.94		ug/L		98	60 - 130
EPTC	1.98	2.04		ug/L		103	70 - 130
Fluoranthene	1.98	2.01		ug/L		101	70 - 130
Fluorene	1.98	1.95		ug/L		98	70 - 130
gamma-Chlordane	1.98	2.31		ug/L		117	70 - 130
Heptachlor	1.98	2.21		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.12		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-172509/23-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.98	2.03		ug/L		102	70 - 130
Hexachlorocyclopentadiene	1.98	2.22		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.07		ug/L		104	70 - 130
Isophorone	1.98	2.14		ug/L		108	70 - 130
Lindane	1.98	2.11		ug/L		107	70 - 130
Malathion	1.98	1.95		ug/L		99	70 - 130
Methoxychlor	1.98	2.14		ug/L		108	70 - 130
Metolachlor	1.98	2.15		ug/L		108	70 - 130
Molinate	1.98	2.05		ug/L		103	70 - 130
Naphthalene	1.98	1.92		ug/L		97	70 - 130
Parathion	1.98	1.88		ug/L		95	70 - 130
Pendimethalin (Penoxaline)	1.98	2.11		ug/L		106	70 - 130
Phenanthrene	1.98	1.80		ug/L		91	70 - 130
Propachlor	1.98	2.02		ug/L		102	70 - 130
Pyrene	1.98	2.08		ug/L		105	70 - 130
Simazine	1.98	1.93		ug/L		97	70 - 130
Terbacil	1.98	2.07		ug/L		104	70 - 130
Terbutylazine	1.98	2.08		ug/L		105	70 - 130
Thiobencarb	1.98	2.01		ug/L		101	70 - 130
trans-Nonachlor	1.98	2.38		ug/L		120	70 - 130
Trifluralin	1.98	2.11		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: LCSD 380-172509/24-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.99	1.88		ug/L		95	70 - 130	1	20
2,4'-DDD	1.99	2.19		ug/L		110	70 - 130	1	20
2,4'-DDE	1.99	2.09		ug/L		105	70 - 130	1	20
2,4'-DDT	1.99	1.98		ug/L		100	70 - 130	1	20
2,4-Dinitrotoluene	1.99	1.91		ug/L		96	70 - 130	0	20
2,6-Dinitrotoluene	1.99	1.72		ug/L		87	70 - 130	0	20
2-Methylnaphthalene	1.99	1.86		ug/L		94	70 - 130	0	20
4,4'-DDD	1.99	2.14		ug/L		108	70 - 130	1	20
4,4'-DDE	1.99	2.00		ug/L		101	70 - 130	1	20
4,4'-DDT	1.99	1.89		ug/L		95	70 - 130	1	20
Acenaphthene	1.99	1.86		ug/L		94	70 - 130	1	20
Acenaphthylene	1.99	2.02		ug/L		101	70 - 130	1	20
Acetochlor	1.99	2.09		ug/L		105	70 - 130	2	20
Alachlor	1.99	2.04		ug/L		103	70 - 130	1	20
alpha-BHC	1.99	1.98		ug/L		100	70 - 130	3	20
alpha-Chlordane	1.99	2.35		ug/L		118	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCSD 380-172509/24-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	1.99	1.82		ug/L		91	70 - 130	2	20
Atrazine	1.99	2.06		ug/L		103	70 - 130	1	20
Benz(a)anthracene	1.99	1.91		ug/L		96	70 - 130	1	20
Benzo[a]pyrene	1.99	2.08		ug/L		105	70 - 130	2	20
Benzo[b]fluoranthene	1.99	2.07		ug/L		104	70 - 130	1	20
Benzo[g,h,i]perylene	1.99	1.85		ug/L		93	70 - 130	2	20
Benzo[k]fluoranthene	1.99	2.18		ug/L		110	70 - 130	2	20
beta-BHC	1.99	2.00		ug/L		101	70 - 130	0	20
Bis(2-ethylhexyl) phthalate	1.99	1.77		ug/L		89	70 - 130	1	20
Bromacil	1.99	1.93		ug/L		97	70 - 130	0	20
Butachlor	1.99	2.03		ug/L		102	70 - 130	2	20
Butylbenzylphthalate	1.99	1.93		ug/L		97	70 - 130	1	20
Chlorobenzilate	1.99	1.95		ug/L		98	70 - 130	1	20
Chloroneb	1.99	1.99		ug/L		100	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.99	2.18		ug/L		110	70 - 130	1	20
Chlorpyrifos	1.99	2.13		ug/L		107	70 - 130	1	20
Chrysene	1.99	2.05		ug/L		103	70 - 130	4	20
delta-BHC	1.99	1.88		ug/L		95	70 - 130	0	20
Di(2-ethylhexyl)adipate	1.99	1.82		ug/L		92	70 - 130	3	20
Dibenz(a,h)anthracene	1.99	1.87		ug/L		94	70 - 130	2	20
Diclorvos (DDVP)	1.99	1.98		ug/L		100	70 - 130	4	20
Dieldrin	1.99	2.05		ug/L		103	70 - 130	1	20
Diethylphthalate	1.99	2.07		ug/L		104	70 - 130	0	20
Dimethylphthalate	1.99	1.97		ug/L		99	70 - 130	0	20
Di-n-butyl phthalate	3.97	4.43		ug/L		112	70 - 130	1	20
Di-n-octyl phthalate	1.99	1.91		ug/L		96	70 - 130	1	20
Endosulfan I (Alpha)	1.99	2.03		ug/L		102	70 - 130	1	20
Endosulfan II (Beta)	1.99	1.90		ug/L		96	70 - 130	0	20
Endosulfan sulfate	1.99	1.97		ug/L		99	70 - 130	1	20
Endrin	1.99	2.30		ug/L		116	70 - 130	1	20
Endrin aldehyde	1.99	2.01		ug/L		101	60 - 130	4	20
EPTC	1.99	2.06		ug/L		104	70 - 130	1	20
Fluoranthene	1.99	2.03		ug/L		102	70 - 130	1	20
Fluorene	1.99	1.95		ug/L		98	70 - 130	0	20
gamma-Chlordane	1.99	2.30		ug/L		116	70 - 130	1	20
Heptachlor	1.99	2.27		ug/L		114	70 - 130	2	20
Heptachlor epoxide (isomer B)	1.99	2.11		ug/L		106	70 - 130	0	20
Hexachlorobenzene	1.99	2.02		ug/L		102	70 - 130	0	20
Hexachlorocyclopentadiene	1.99	2.16		ug/L		109	70 - 130	3	20
Indeno[1,2,3-cd]pyrene	1.99	2.00		ug/L		101	70 - 130	3	20
Isophorone	1.99	2.15		ug/L		108	70 - 130	0	20
Lindane	1.99	2.15		ug/L		108	70 - 130	2	20
Malathion	1.99	1.95		ug/L		98	70 - 130	0	20
Methoxychlor	1.99	2.21		ug/L		111	70 - 130	3	20
Metolachlor	1.99	2.15		ug/L		108	70 - 130	0	20
Molinate	1.99	2.03		ug/L		102	70 - 130	1	20
Naphthalene	1.99	1.90		ug/L		96	70 - 130	1	20
Parathion	1.99	1.91		ug/L		96	70 - 130	1	20
Pendimethalin (Penoxaline)	1.99	2.18		ug/L		110	70 - 130	3	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCSD 380-172509/24-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.99	1.81		ug/L		91	70 - 130	1	20
Propachlor	1.99	2.07		ug/L		104	70 - 130	2	20
Pyrene	1.99	2.09		ug/L		105	70 - 130	0	20
Simazine	1.99	1.86		ug/L		94	70 - 130	4	20
Terbacil	1.99	2.04		ug/L		103	70 - 130	1	20
Terbutylazine	1.99	2.11		ug/L		106	70 - 130	1	20
Thiobencarb	1.99	2.04		ug/L		103	70 - 130	2	20
trans-Nonachlor	1.99	2.39		ug/L		120	70 - 130	0	20
Trifluralin	1.99	2.15		ug/L		108	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: MRL 380-172509/22-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.109		ug/L		110	50 - 150
2,4'-DDD	0.0994	0.0861	J	ug/L		87	50 - 150
2,4'-DDE	0.0994	0.0960	J	ug/L		97	50 - 150
2,4'-DDT	0.0994	0.109		ug/L		110	50 - 150
2,4-Dinitrotoluene	0.0994	0.0858	J	ug/L		86	50 - 150
2,6-Dinitrotoluene	0.0994	0.0886	J	ug/L		89	50 - 150
2-Methylnaphthalene	0.0994	0.0973	J	ug/L		98	50 - 150
4,4'-DDD	0.0994	0.0909	J	ug/L		91	50 - 150
4,4'-DDE	0.0994	0.0862	J	ug/L		87	50 - 150
4,4'-DDT	0.0994	0.114		ug/L		115	50 - 150
Acenaphthene	0.0994	0.0893	J	ug/L		90	50 - 150
Acenaphthylene	0.0994	0.0831	J	ug/L		84	50 - 150
Acetochlor	0.0994	0.102		ug/L		103	50 - 150
Alachlor	0.0497	0.0483	J	ug/L		97	50 - 150
alpha-BHC	0.0994	0.0910	J	ug/L		92	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		95	50 - 150
Anthracene	0.0199	0.0200		ug/L		101	50 - 150
Atrazine	0.0497	0.0482	J	ug/L		97	50 - 150
Benz(a)anthracene	0.0497	0.0454	J	ug/L		91	50 - 150
Benzo[a]pyrene	0.0199	0.0206		ug/L		104	50 - 150
Benzo[b]fluoranthene	0.0199	0.0218		ug/L		109	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0538		ug/L		108	50 - 150
Benzo[k]fluoranthene	0.0199	0.0225		ug/L		113	50 - 150
beta-BHC	0.0994	0.0988	J	ug/L		99	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.512	J	ug/L		86	50 - 150
Bromacil	0.0994	0.116		ug/L		116	50 - 150
Butachlor	0.0497	0.0577		ug/L		116	50 - 150
Butylbenzylphthalate	0.497	0.496	J	ug/L		100	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-172509/22-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	0.0994	0.103		ug/L		104	50 - 150
Chloroneb	0.0994	0.0931	J	ug/L		94	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.0801	J	ug/L		81	50 - 150
Chlorpyrifos	0.0497	0.0468	J	ug/L		94	50 - 150
Chrysene	0.0199	0.0142	J	ug/L		71	50 - 150
delta-BHC	0.0994	0.0858	J	ug/L		86	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.579	J	ug/L		97	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0519		ug/L		105	50 - 150
Diclorvos (DDVP)	0.0497	0.0510		ug/L		103	50 - 150
Dieldrin	0.00994	0.0125		ug/L		126	50 - 150
Diethylphthalate	0.497	0.493	J	ug/L		99	50 - 150
Dimethylphthalate	0.497	0.471	J	ug/L		95	50 - 150
Di-n-butyl phthalate	0.497	0.625	J	ug/L		126	49 - 243
Di-n-octyl phthalate	0.0994	0.0957	J	ug/L		96	50 - 150
Endosulfan I (Alpha)	0.0994	0.0833	J	ug/L		84	50 - 150
Endosulfan II (Beta)	0.0994	0.0915	J	ug/L		92	50 - 150
Endosulfan sulfate	0.0994	0.112		ug/L		113	50 - 150
Endrin	0.00994	0.00814	J	ug/L		82	50 - 150
Endrin aldehyde	0.0994	0.122		ug/L		122	50 - 150
EPTC	0.0994	0.0927	J	ug/L		93	50 - 150
Fluoranthene	0.0994	0.0822	J	ug/L		83	50 - 150
Fluorene	0.0497	<0.050		ug/L		86	50 - 150
gamma-Chlordane	0.0249	0.0218	J	ug/L		88	50 - 150
Heptachlor	0.00994	0.0114		ug/L		115	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0100		ug/L		101	50 - 150
Hexachlorobenzene	0.0497	0.0466	J	ug/L		94	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0399	J	ug/L		80	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0490	J	ug/L		99	50 - 150
Isophorone	0.0994	0.119		ug/L		120	50 - 150
Lindane	0.00994	0.0118		ug/L		118	50 - 150
Malathion	0.0994	0.100		ug/L		101	50 - 150
Methoxychlor	0.0497	0.0549		ug/L		111	50 - 150
Metolachlor	0.0497	0.0536		ug/L		108	50 - 150
Molinate	0.0994	0.0932	J	ug/L		94	50 - 150
Naphthalene	0.0994	0.107		ug/L		107	50 - 150
Parathion	0.0994	0.0913	J	ug/L		92	50 - 150
Pendimethalin (Penoxaline)	0.0994	0.101		ug/L		102	50 - 150
Phenanthrene	0.0398	0.0361	J	ug/L		91	50 - 150
Propachlor	0.0497	0.0532		ug/L		107	50 - 150
Pyrene	0.0497	0.0424	J	ug/L		85	50 - 150
Simazine	0.0497	0.0532		ug/L		107	50 - 150
Terbacil	0.0994	0.117		ug/L		118	50 - 150
Terbutylazine	0.0994	0.101		ug/L		102	50 - 150
Thiobencarb	0.0994	0.0882	J	ug/L		89	50 - 150
trans-Nonachlor	0.0249	<0.026		ug/L		99	50 - 150
Trifluralin	0.0994	0.103		ug/L		103	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-172509/22-A

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172509

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-169525-H-1-A MS

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.94	1.85		ug/L		95	70 - 130
2,4'-DDD	<0.098		1.94	2.18		ug/L		113	70 - 130
2,4'-DDE	<0.098		1.94	2.03		ug/L		105	70 - 130
2,4'-DDT	<0.098		1.94	1.92		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.098		1.94	1.94		ug/L		100	70 - 130
2,6-Dinitrotoluene	<0.098		1.94	1.74		ug/L		90	70 - 130
2-Methylnaphthalene	<0.098		1.94	1.84		ug/L		95	70 - 130
4,4'-DDD	<0.098		1.94	2.09		ug/L		108	70 - 130
4,4'-DDE	<0.098		1.94	1.92		ug/L		99	70 - 130
4,4'-DDT	<0.098		1.94	1.86		ug/L		96	70 - 130
Acenaphthene	<0.098		1.94	1.84		ug/L		95	70 - 130
Acenaphthylene	<0.098		1.94	1.98		ug/L		102	70 - 130
Acetochlor	<0.098		1.94	2.10		ug/L		109	70 - 130
Alachlor	<0.049		1.94	2.01		ug/L		104	70 - 130
alpha-BHC	<0.098		1.94	1.90		ug/L		98	70 - 130
alpha-Chlordane	<0.049		1.94	2.36		ug/L		120	70 - 130
Anthracene	<0.020		1.94	1.78		ug/L		92	70 - 130
Atrazine	<0.049		1.94	2.06		ug/L		106	70 - 130
Benz(a)anthracene	<0.049		1.94	1.90		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.94	2.06		ug/L		106	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	2.04		ug/L		105	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	1.82		ug/L		94	70 - 130
Benzo[k]fluoranthene	<0.020		1.94	2.13		ug/L		110	70 - 130
beta-BHC	<0.098		1.94	1.97		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.94	1.63		ug/L		84	70 - 130
Bromacil	<0.098		1.94	1.96		ug/L		99	70 - 130
Butachlor	<0.049		1.94	1.99		ug/L		103	70 - 130
Butylbenzylphthalate	<0.49		1.94	1.93		ug/L		100	70 - 130
Chlorobenzilate	<0.098		1.94	1.92		ug/L		99	70 - 130
Chloroneb	<0.098		1.94	1.96		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.94	2.11		ug/L		109	70 - 130
Chlorpyrifos	<0.049		1.94	2.07		ug/L		107	70 - 130
Chrysene	<0.020		1.94	1.98		ug/L		102	70 - 130
delta-BHC	<0.098		1.94	1.86		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.94	1.74		ug/L		90	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.85		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.049		1.94	1.98		ug/L		102	70 - 130
Dieldrin	0.072		1.94	2.10		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.94	2.03		ug/L		105	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169525-H-1-A MS

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.49		1.94	1.95		ug/L		101	70 - 130
Di-n-butyl phthalate	<0.98		3.87	4.39		ug/L		108	70 - 130
Di-n-octyl phthalate	<0.098		1.94	1.75		ug/L		91	70 - 130
Endosulfan I (Alpha)	<0.098		1.94	1.99		ug/L		103	70 - 130
Endosulfan II (Beta)	<0.098		1.94	1.89		ug/L		97	70 - 130
Endosulfan sulfate	<0.098		1.94	1.90		ug/L		98	70 - 130
Endrin	<0.0098		1.94	2.28		ug/L		118	70 - 130
Endrin aldehyde	<0.098		1.94	1.96		ug/L		101	60 - 130
EPTC	<0.098		1.94	2.00		ug/L		103	70 - 130
Fluoranthene	<0.098		1.94	2.00		ug/L		103	70 - 130
Fluorene	<0.049		1.94	1.93		ug/L		99	70 - 130
gamma-Chlordane	<0.049		1.94	2.29		ug/L		117	70 - 130
Heptachlor	<0.0098		1.94	2.22		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	0.012		1.94	2.13		ug/L		109	70 - 130
Hexachlorobenzene	<0.049		1.94	2.00		ug/L		103	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	2.24		ug/L		116	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.00		ug/L		103	70 - 130
Isophorone	<0.098		1.94	2.11		ug/L		109	70 - 130
Lindane	<0.0098		1.94	2.09		ug/L		108	70 - 130
Malathion	<0.098		1.94	1.97		ug/L		101	70 - 130
Methoxychlor	<0.049		1.94	2.20		ug/L		113	70 - 130
Metolachlor	<0.049		1.94	2.11		ug/L		109	70 - 130
Molinate	<0.098		1.94	2.02		ug/L		104	70 - 130
Naphthalene	<0.098		1.94	1.88		ug/L		97	70 - 130
Parathion	<0.098		1.94	1.91		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.94	2.18		ug/L		113	70 - 130
Phenanthrene	<0.039		1.94	1.76		ug/L		91	70 - 130
Propachlor	<0.049		1.94	2.03		ug/L		105	70 - 130
Pyrene	<0.049		1.94	2.05		ug/L		106	70 - 130
Simazine	<0.049		1.94	1.89		ug/L		98	70 - 130
Terbacil	<0.098		1.94	2.06		ug/L		106	70 - 130
Terbutylazine	<0.098		1.94	2.08		ug/L		107	70 - 130
Thiobencarb	<0.098		1.94	1.98		ug/L		102	70 - 130
trans-Nonachlor	<0.049	^+	1.94	2.35		ug/L		121	70 - 130
Trifluralin	<0.098		1.94	2.16		ug/L		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-169530-H-1-A DU

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 172509

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169530-H-1-A DU

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.034		0.0395		ug/L		15	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169530-H-1-A DU

Matrix: Water

Analysis Batch: 172575

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 172509

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.014		0.0118		ug/L		18	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049	^+	<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-622036/6

Matrix: Water

Analysis Batch: 622036

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			09/07/25 12:09	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		38 - 134		09/07/25 12:09	1

Lab Sample ID: LCS 570-622036/4

Matrix: Water

Analysis Batch: 622036

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	330		ug/L		82	78 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

		LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	82		38 - 134									
Lab Sample ID: LCSD 570-622036/5				Client Sample ID: Lab Control Sample Duplicate								
Matrix: Water				Prep Type: Total/NA								
Analysis Batch: 622036												
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Gasoline Range Organics (C4-C13)			400	330		ug/L		83	78 - 120	0	10	
		LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	90		38 - 134									
Lab Sample ID: MRL 570-622036/3				Client Sample ID: Lab Control Sample Duplicate								
Matrix: Water				Prep Type: Total/NA								
Analysis Batch: 622036												
Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits			
Gasoline Range Organics (C4-C13)			10.0	<7.9		ug/L		72	50 - 150			
		MRL	MRL									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	72		38 - 134									
Lab Sample ID: 380-169530-C-1 MS				Client Sample ID: Matrix Spike Duplicate								
Matrix: Water				Prep Type: Total/NA								
Analysis Batch: 622036												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Gasoline Range Organics (C4-C13)	<10		400	340		ug/L		85	68 - 122			
		MS	MS									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	87		38 - 134									
Lab Sample ID: 380-169530-C-1 MSD				Client Sample ID: Matrix Spike Duplicate								
Matrix: Water				Prep Type: Total/NA								
Analysis Batch: 622036												
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	327		ug/L		82	68 - 122	4	18	
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	86		38 - 134									

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-622477/1-A

Matrix: Water

Analysis Batch: 625391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 622477

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/08/25 14:14	09/14/25 15:47	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/08/25 14:14	09/14/25 15:47	1
C8-C18	<25		25	ug/L		09/08/25 14:14	09/14/25 15:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	86		60 - 130			09/08/25 14:14	09/14/25 15:47	1

Lab Sample ID: LCS 570-622477/2-A

Matrix: Water

Analysis Batch: 625391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 622477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	1600	1500		ug/L		94	56 - 127	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	91		60 - 130					

Lab Sample ID: LCSD 570-622477/3-A

Matrix: Water

Analysis Batch: 625391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 622477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1600		ug/L		100	56 - 127	6	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	97		60 - 130						

Lab Sample ID: MRL 570-622477/4-A

Matrix: Water

Analysis Batch: 625391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 622477

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0286		mg/L		143	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	87		60 - 130					

Lab Sample ID: 380-169530-B-1-A MS

Matrix: Water

Analysis Batch: 625391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 622477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1650	1460		ug/L		88	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	85		60 - 130						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169530-B-1-B MSD

Matrix: Water

Analysis Batch: 625391

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 622477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1670	1540		ug/L		93	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane (Surr)	81		60 - 130

QC Association Summary

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

GC/MS Semi VOA

Prep Batch: 172509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	
MB 380-172509/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-172509/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-172509/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-172509/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-169525-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-169530-H-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 172575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	172509
MB 380-172509/21-A	Method Blank	Total/NA	Water	525.2	172509
LCS 380-172509/23-A	Lab Control Sample	Total/NA	Water	525.2	172509
LCSD 380-172509/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	172509
MRL 380-172509/22-A	Lab Control Sample	Total/NA	Water	525.2	172509
380-169525-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	172509
380-169530-H-1-A DU	Duplicate	Total/NA	Water	525.2	172509

GC VOA

Analysis Batch: 622036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-169544-2	TB:MOANALUA WELLS (331-223-TP202)	Total/NA	Water	8015B GRO LL	
MB 570-622036/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-622036/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-622036/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-622036/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-169530-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-169530-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 622477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
MB 570-622477/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-622477/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-622477/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-622477/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-169530-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-169530-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 625391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	622477
MB 570-622477/1-A	Method Blank	Total/NA	Water	8015B	622477
LCS 570-622477/2-A	Lab Control Sample	Total/NA	Water	8015B	622477
LCSD 570-622477/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	622477
MRL 570-622477/4-A	Lab Control Sample	Total/NA	Water	8015B	622477
380-169530-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	622477
380-169530-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	622477

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-169544-1

Date Collected: 09/02/25 10:13

Matrix: Drinking Water

Date Received: 09/04/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			172509	OTM3	EA POM	09/05/25 06:34
Total/NA	Analysis	525.2		1	172575	Q8LA	EA POM	09/05/25 16:50
Total/NA	Analysis	8015B GRO LL		1	622036	W4LC	EET CAL 4	09/07/25 16:37
Total/NA	Prep	3510C			622477	TVD6	EET CAL 4	09/08/25 14:16
Total/NA	Analysis	8015B		1	625391	H6FE	EET CAL 4	09/14/25 21:51

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

Lab Sample ID: 380-169544-2

Date Collected: 09/02/25 10:13

Matrix: Water

Date Received: 09/04/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	622036	W4LC	EET CAL 4	09/07/25 21:10

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: 380-169544-1
SDG: Weekly: Moanalua Wells

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
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: 380-169544-1
SDG: Weekly: Moanalua Wells

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	09-18-25
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-169544-1
SDG: Weekly: Moanalua Wells

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
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

Protocol References:

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: 380-169544-1
SDG: Weekly: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-169544-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	09/02/25 10:13	09/04/25 09:56	HI0000331
380-169544-2	TB:MOANALUA WELLS (331-223-TP202)	Water	09/02/25 10:13	09/04/25 09:56	

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

SHIP DATE: 03SEP25
ACTWGT 58.00 LB
CAD: 258050552/INET4535

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

REF (626) 386-1100

PC- INV

DEPT.



THU - 04 SEP 10:30A
PRIORITY OVERNIGHT

1 of 6

TRK# 8840 8629 2577

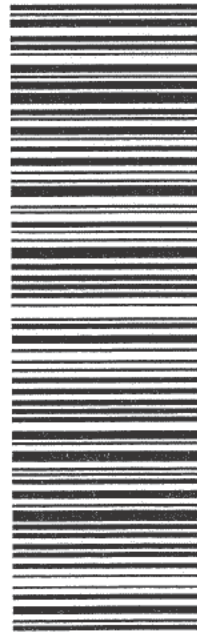
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380-169544 Chain of Custody

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-169544-1

SDG Number: Weekly: Moanalua Wells

Login Number: 169544

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

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Client: City & County of Honolulu

Job Number: 380-169544-1
SDG Number: Weekly: Moanalua Wells

Login Number: 169544
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 09/05/25 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	