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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Wells P1 (MS/MSD)

JOB NUMBER

380-244779-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

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Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.

Glossary

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

Job Narrative
380-244779-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 10/28/2026 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 1.7°C.

GC/MS Semi VOA
Method 525.2: The laboratory control sample (LCS) for preparation batch 380-262255 and analytical batch 380-262455 recovered outside control limits for flagged analytes. These analytes were biased high in the LCS with hits but no backup exists to re-extract; therefore, the data have been reported. Spiking mixes in extractions may have concentrated leading to high bias concentrations. Results by method 525.2 for Halawa Wells P1 (331-023-WL065) (380-244779-1) collected on 10/26/26 are not acceptable for compliance reporting due to QC failures of LCS recoveries not meeting the method limits. Analysis has been omitted. The sample is collected weekly thus follow up sample was collected on 11/2/26 under job # 380-246391-1. Analysis by method 525.2 is currently in progress. (XWB4)

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

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

Diesel Range Organics
Method 8015B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-824865 and analytical batch 570-828440 recovered outside control limits for the following analytes: C10-C28.
Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes.

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-824865 and analytical batch 570-828440 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Detection Summary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065) — Lab Sample ID: 380-244779-1

No Detections.

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065) — Lab Sample ID: 380-244779-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Date Collected: 10/26/26 11:14
Date Received: 10/28/26 10:00

Lab Sample ID: 380-244779-1

Matrix: Drinking Water

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		11/01/26 09:26	11/06/26 10:15	1
2-Methylnaphthalene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Acenaphthene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Acenaphthylene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Anthracene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Benzo[a]anthracene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Benzo[a]pyrene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Chrysene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Fluoranthene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Fluorene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Naphthalene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Phenanthrene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1
Pyrene	<0.19		0.19		ug/L		11/01/26 09:26	11/06/26 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*28 - 127*	*11/01/26 09:26*	*11/06/26 10:15*	*1*
2-Fluorobiphenyl (Surr)	*68*		*31 - 120*	*11/01/26 09:26*	*11/06/26 10:15*	*1*
2-Fluorophenol (Surr)	*45*		*17 - 120*	*11/01/26 09:26*	*11/06/26 10:15*	*1*
Nitrobenzene-d5 (Surr)	*75*		*27 - 120*	*11/01/26 09:26*	*11/06/26 10:15*	*1*
Phenol-d6 (Surr)	*28*		*10 - 120*	*11/01/26 09:26*	*11/06/26 10:15*	*1*
p-Terphenyl-d14 (Surr)	*67*		*45 - 120*	*11/01/26 09:26*	*11/06/26 10:15*	*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*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*11/01/26 09:26*	*11/10/26 14:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*33 - 139*	*11/01/26 09:26*	*11/10/26 14:13*	*1*
2-Fluorobiphenyl (Surr)	*79*		*33 - 126*	*11/01/26 09:26*	*11/10/26 14:13*	*1*
2-Fluorophenol (Surr)	*51*		*12 - 120*	*11/01/26 09:26*	*11/10/26 14:13*	*1*
Nitrobenzene-d5 (Surr)	*88*		*36 - 120*	*11/01/26 09:26*	*11/10/26 14:13*	*1*
Phenol-d6 (Surr)	*34*		*10 - 120*	*11/01/26 09:26*	*11/10/26 14:13*	*1*
p-Terphenyl-d14 (Surr)	*82*		*47 - 131*	*11/01/26 09:26*	*11/10/26 14:13*	*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			10/30/26 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*		*10/30/26 13:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		11/01/26 13:49	11/09/26 19:36	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		11/01/26 13:49	11/09/26 19:36	1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-244779-1
Matrix: Drinking Water
Date Collected: 10/26/26 11:14
Date Received: 10/28/26 10:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<25		25		ug/L		11/01/26 13:49	11/09/26 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*72*		*60 - 130*	*11/01/26 13:49*	*11/09/26 19:36*	*1*

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-244779-2
Matrix: Water
Date Collected: 10/26/26 11:14
Date Received: 10/28/26 10:00

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			10/30/26 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*		*10/30/26 12:16*	*1*

Action Limit Summary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065) — Lab Sample ID: 380-244779-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
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: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-244779-1	HALAWA WELLS P1 (331-023-V	56	79	51	88	34	82

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
MB 570-824718/1-A	Method Blank	64	81	53	88	36	85

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: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)
380-244779-1	HALAWA WELLS P1 (331-023-V	70	68	45	75	28	67
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	51	54	36	46	23	50
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	76	79	56	63	37	78

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)
LCS 570-824718/2-A	Lab Control Sample	68	70	53	58	34	72

Surrogate Summary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)
LCSD 570-824718/3-A	Lab Control Sample Dup	76	76	55	60	35	82
MB 570-824718/1-A	Method Blank	65	67	46	73	29	69

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	
Lab Sample ID	Client Sample ID	(38-134)	
380-244779-1	HALAWA WELLS P1 (331-023-V	97	
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	103	
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	103	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	
Lab Sample ID	Client Sample ID	(38-134)	
380-244779-2	TB: HALAWA WELLS P1 (331-0	97	
LCS 570-823996/3	Lab Control Sample	95	
LCSD 570-823996/4	Lab Control Sample Dup	94	
MB 570-823996/6	Method Blank	100	
MRL 570-823996/5	Lab Control Sample	97	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		OTCSN1	
Lab Sample ID	Client Sample ID	(60-130)	
380-244779-1 - RA	HALAWA WELLS P1 (331-023-V	72	
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	62	
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	83	

Surrogate Legend

Surrogate Summary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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)								
LCS 570-824865/2-A	Lab Control Sample	79								
LCSD 570-824865/3-A	Lab Control Sample Dup	105								
MB 570-824865/1-A	Method Blank	94								
MRL 570-824865/4-A	Lab Control Sample	70								

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 570-824718/1-A
Matrix: Water
Analysis Batch: 829653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824718

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/31/26 13:37	11/10/26 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		33 - 139	10/31/26 13:37	11/10/26 12:34	1
2-Fluorobiphenyl (Surr)	81		33 - 126	10/31/26 13:37	11/10/26 12:34	1
2-Fluorophenol (Surr)	53		12 - 120	10/31/26 13:37	11/10/26 12:34	1
Nitrobenzene-d5 (Surr)	88		36 - 120	10/31/26 13:37	11/10/26 12:34	1
Phenol-d6 (Surr)	36		10 - 120	10/31/26 13:37	11/10/26 12:34	1
p-Terphenyl-d14 (Surr)	85		47 - 131	10/31/26 13:37	11/10/26 12:34	1

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

Lab Sample ID: MB 570-824718/1-A
Matrix: Water
Analysis Batch: 827194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824718

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
2-Methylnaphthalene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Acenaphthene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Acenaphthylene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Anthracene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Benzo[a]anthracene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Benzo[a]pyrene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Chrysene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Fluoranthene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Fluorene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Naphthalene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Phenanthrene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1
Pyrene	<0.20		0.20		ug/L		10/31/26 13:37	11/05/26 14:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		28 - 127	10/31/26 13:37	11/05/26 14:44	1
2-Fluorobiphenyl (Surr)	67		31 - 120	10/31/26 13:37	11/05/26 14:44	1
2-Fluorophenol (Surr)	46		17 - 120	10/31/26 13:37	11/05/26 14:44	1
Nitrobenzene-d5 (Surr)	73		27 - 120	10/31/26 13:37	11/05/26 14:44	1
Phenol-d6 (Surr)	29		10 - 120	10/31/26 13:37	11/05/26 14:44	1
p-Terphenyl-d14 (Surr)	69		45 - 120	10/31/26 13:37	11/05/26 14:44	1

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

Lab Sample ID: LCS 570-824718/2-A
Matrix: Water
Analysis Batch: 827194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	10.9		ug/L		54	47 - 120
2-Methylnaphthalene	20.0	11.0		ug/L		55	43 - 120
Acenaphthene	20.0	13.6		ug/L		68	60 - 132
Acenaphthylene	20.0	14.2		ug/L		71	54 - 126
Anthracene	20.0	14.7		ug/L		74	43 - 120
Benzo[a]anthracene	20.0	15.0		ug/L		75	42 - 133
Benzo[a]pyrene	20.0	16.8		ug/L		84	32 - 148
Benzo[b]fluoranthene	20.0	16.3		ug/L		82	42 - 140
Benzo[g,h,i]perylene	20.0	15.2		ug/L		76	1 - 195
Benzo[k]fluoranthene	20.0	15.5		ug/L		78	25 - 146
Chrysene	20.0	14.7		ug/L		73	44 - 140
Dibenz(a,h)anthracene	20.0	15.6		ug/L		78	1 - 200
Fluoranthene	20.0	16.1		ug/L		80	43 - 121
Fluorene	20.0	14.2		ug/L		71	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	14.8		ug/L		74	1 - 151
Naphthalene	20.0	10.3		ug/L		52	36 - 120
Phenanthrene	20.0	14.6		ug/L		73	65 - 120
Pyrene	20.0	14.6		ug/L		73	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*68*		*28 - 127*
2-Fluorobiphenyl (Surr)	*70*		*31 - 120*
2-Fluorophenol (Surr)	*53*		*17 - 120*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*
Phenol-d6 (Surr)	*34*		*10 - 120*
p-Terphenyl-d14 (Surr)	*72*		*45 - 120*

Lab Sample ID: LCSD 570-824718/3-A
Matrix: Water
Analysis Batch: 827194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 824718

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	12.2		ug/L		61	47 - 120	12	20
2-Methylnaphthalene	20.0	12.3		ug/L		62	43 - 120	12	20
Acenaphthene	20.0	15.1		ug/L		76	60 - 132	11	29
Acenaphthylene	20.0	15.5		ug/L		77	54 - 126	9	45
Anthracene	20.0	16.2		ug/L		81	43 - 120	9	40
Benzo[a]anthracene	20.0	17.3		ug/L		86	42 - 133	14	32
Benzo[a]pyrene	20.0	18.5		ug/L		93	32 - 148	10	43
Benzo[b]fluoranthene	20.0	18.3		ug/L		91	42 - 140	11	43
Benzo[g,h,i]perylene	20.0	16.7		ug/L		84	1 - 195	10	61
Benzo[k]fluoranthene	20.0	17.6		ug/L		88	25 - 146	12	38
Chrysene	20.0	16.6		ug/L		83	44 - 140	12	53
Dibenz(a,h)anthracene	20.0	17.3		ug/L		87	1 - 200	10	75
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	11	40
Fluorene	20.0	15.6		ug/L		78	70 - 120	9	23
Indeno[1,2,3-cd]pyrene	20.0	16.4		ug/L		82	1 - 151	11	60
Naphthalene	20.0	11.1		ug/L		55	36 - 120	7	39

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

Lab Sample ID: LCSD 570-824718/3-A
Matrix: Water
Analysis Batch: 827194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 824718

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	16.4		ug/L		82	65 - 120	11	24
Pyrene			20.0	16.9		ug/L		84	70 - 120	14	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*76*		*28 - 127*
2-Fluorobiphenyl (Surr)	*76*		*31 - 120*
2-Fluorophenol (Surr)	*55*		*17 120*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*
Phenol-d6 (Surr)	*35*		*10 - 120*
p-Terphenyl-d14 (Surr)	*82*		*45 - 120*

Lab Sample ID: 380-244779-1 MS
Matrix: Drinking Water
Analysis Batch: 827650

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
Prep Type: Total/NA
Prep Batch: 824718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	8.77		ug/L		45	36 - 120
2-Methylnaphthalene	<0.19		19.3	8.75		ug/L		45	32 - 124
Acenaphthene	<0.19		19.3	11.1		ug/L		58	47 - 145
Acenaphthylene	<0.19		19.3	11.4		ug/L		59	33 - 145
Anthracene	<0.19		19.3	11.4		ug/L		59	27 - 133
Benzo[a]anthracene	<0.19		19.3	11.7		ug/L		61	33 - 143
Benzo[a]pyrene	<0.19		19.3	13.9		ug/L		72	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	13.0		ug/L		67	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	12.5		ug/L		65	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	13.1		ug/L		68	11 - 162
Chrysene	<0.19		19.3	11.3		ug/L		59	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	12.8		ug/L		66	1 - 227
Fluoranthene	<0.19		19.3	12.5		ug/L		65	26 - 137
Fluorene	<0.19		19.3	11.4		ug/L		59	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	11.9		ug/L		62	1 - 171
Naphthalene	<0.19		19.3	8.37		ug/L		43	21 - 133
Phenanthrene	<0.19		19.3	11.4		ug/L		59	54 - 120
Pyrene	<0.19		19.3	10.8		ug/L		56	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*51*		*28 - 127*
2-Fluorobiphenyl (Surr)	*54*		*31 - 120*
2-Fluorophenol (Surr)	*36*		*17 - 120*
Nitrobenzene-d5 (Surr)	*46*		*27 - 120*
Phenol-d6 (Surr)	*23*		*10 - 120*
p-Terphenyl-d14 (Surr)	*50*		*45 - 120*

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

Lab Sample ID: 380-244779-1 MSD
Matrix: Drinking Water
Analysis Batch: 827650

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
Prep Type: Total/NA
Prep Batch: 824718

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.2	11.7		ug/L		61	36 - 120	29	30
2-Methylnaphthalene	<0.19		19.2	11.8		ug/L		61	32 - 124	29	30
Acenaphthene	<0.19		19.2	15.7		ug/L		82	47 - 145	34	48
Acenaphthylene	<0.19		19.2	16.3		ug/L		85	33 - 145	35	74
Anthracene	<0.19		19.2	16.5		ug/L		86	27 - 133	36	66
Benzo[a]anthracene	<0.19		19.2	17.4		ug/L		91	33 - 143	40	53
Benzo[a]pyrene	<0.19		19.2	20.8		ug/L		108	17 - 163	39	72
Benzo[b]fluoranthene	<0.19		19.2	19.5		ug/L		102	24 - 159	40	71
Benzo[g,h,i]perylene	<0.19		19.2	17.8		ug/L		92	1 - 219	35	97
Benzo[k]fluoranthene	<0.19		19.2	18.8		ug/L		98	11 - 162	36	63
Chrysene	<0.19		19.2	16.7		ug/L		87	17 - 168	38	87
Dibenz(a,h)anthracene	<0.19		19.2	18.4		ug/L		96	1 - 227	36	126
Fluoranthene	<0.19		19.2	18.3		ug/L		95	26 - 137	38	66
Fluorene	<0.19		19.2	16.3		ug/L		85	59 - 121	35	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	17.2		ug/L		90	1 - 171	36	99
Naphthalene	<0.19		19.2	10.9		ug/L		57	21 - 133	27	65
Phenanthrene	<0.19		19.2	16.6		ug/L		86	54 - 120	37	39
Pyrene	<0.19		19.2	16.3		ug/L		85	52 - 120	41	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*76*		*28 - 127*
2-Fluorobiphenyl (Surr)	*79*		*31 - 120*
2-Fluorophenol (Surr)	*56*		*17 - 120*
Nitrobenzene-d5 (Surr)	*63*		*27 - 120*
Phenol-d6 (Surr)	*37*		*10 - 120*
p-Terphenyl-d14 (Surr)	*78*		*45 - 120*

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

Lab Sample ID: MB 570-823996/6
Matrix: Water
Analysis Batch: 823996

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			10/30/26 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*38 - 134*		*10/30/26 11:08*	*1*

Lab Sample ID: LCS 570-823996/3
Matrix: Water
Analysis Batch: 823996

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	316		ug/L		79	78 - 120		

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

Lab Sample ID: LCS 570-823996/3
Matrix: Water
Analysis Batch: 823996

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*38 - 134*

Lab Sample ID: LCSD 570-823996/4
Matrix: Water
Analysis Batch: 823996

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	328		ug/L		82	78 - 120	4	10

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

Lab Sample ID: MRL 570-823996/5
Matrix: Water
Analysis Batch: 823996

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	14.1		ug/L		141	50 - 150		

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

Lab Sample ID: 380-244779-1 MS
Matrix: Drinking Water
Analysis Batch: 823996

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
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	343		ug/L		86	68 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*38 - 134*

Lab Sample ID: 380-244779-1 MSD
Matrix: Drinking Water
Analysis Batch: 823996

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
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	347		ug/L		87	68 - 122	1	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*38 - 134*

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

Lab Sample ID: MB 570-824865/1-A
Matrix: Water
Analysis Batch: 828440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824865

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		11/01/26 13:48	11/07/26 22:16	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		11/01/26 13:48	11/07/26 22:16	1
C8-C18	<25		25		ug/L		11/01/26 13:48	11/07/26 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*94*		*60 - 130*	*11/01/26 13:48*	*11/07/26 22:16*	*1*

Lab Sample ID: LCS 570-824865/2-A
Matrix: Water
Analysis Batch: 828440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824865

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1000		ug/L		63	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*79*		*60 - 130*

Lab Sample ID: LCSD 570-824865/3-A
Matrix: Water
Analysis Batch: 828440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 824865

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1320	*1	ug/L		82	56 - 127	27	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*105*		*60 - 130*

Lab Sample ID: MRL 570-824865/4-A
Matrix: Water
Analysis Batch: 829203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824865

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0207	J	mg/L		103	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*70*		*60 - 130*

Lab Sample ID: 380-244779-1 MS
Matrix: Drinking Water
Analysis Batch: 828440

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
Prep Type: Total/NA
Prep Batch: 824865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25	F1 F2 *1	1640	727	F1	ug/L		44	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*62*		*60 - 130*

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

Lab Sample ID: 380-244779-1 MSD
Matrix: Drinking Water
Analysis Batch: 828440

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
Prep Type: Total/NA
Prep Batch: 824865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25	F1 F2 *1	1610	1080	F1 F2	ug/L		67	70 - 130	39	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*83*		*60 - 130*

QC Association Summary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

GC/MS Semi VOA

Prep Batch: 824718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244779-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	
MB 570-824718/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-824718/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-824718/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 827194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-824718/1-A	Method Blank	Total/NA	Water	625.1 SIM	824718
LCS 570-824718/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	824718
LCSD 570-824718/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	824718

Analysis Batch: 827650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244779-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	824718
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	824718
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	824718

Analysis Batch: 829653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244779-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	824718
MB 570-824718/1-A	Method Blank	Total/NA	Water	625.1	824718

GC VOA

Analysis Batch: 823996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244779-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	
380-244779-2	TB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	8015B GRO LL	
MB 570-823996/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-823996/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-823996/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-823996/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 824865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244779-1 - RA	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	
MB 570-824865/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-824865/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-824865/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-824865/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 828440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-824865/1-A	Method Blank	Total/NA	Water	8015B	824865

GC Semi VOA (Continued)

Analysis Batch: 828440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-824865/2-A	Lab Control Sample	Total/NA	Water	8015B	824865
LCSD 570-824865/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	824865
380-244779-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	824865
380-244779-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	824865

Analysis Batch: 829203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244779-1 - RA	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	824865
MRL 570-824865/4-A	Lab Control Sample	Total/NA	Water	8015B	824865

Lab Chronicle

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-244779-1
Date Collected: 10/26/26 11:14
Matrix: Drinking Water
Date Received: 10/28/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	625.1			824718	KLZQ	EET CAL 4	11/01/26 09:26
Total/NA	Analysis	625.1		1	829653	S4EA	EET CAL 4	11/10/26 14:13
Total/NA	Prep	625.1			824718	KLZQ	EET CAL 4	11/01/26 09:26
Total/NA	Analysis	625.1 SIM		1	827650	PQS1	EET CAL 4	11/06/26 10:15
Total/NA	Analysis	8015B GRO LL		1	823996	A9VE	EET CAL 4	10/30/26 13:48
Total/NA	Prep	3510C	RA		824865	ATRL	EET CAL 4	11/01/26 13:49
Total/NA	Analysis	8015B	RA	1	829203	H6FE	EET CAL 4	11/09/26 19:36

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-244779-2
Date Collected: 10/26/26 11:14
Matrix: Water
Date Received: 10/28/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	823996	A9VE	EET CAL 4	10/30/26 12:16

Laboratory References:

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: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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
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	01-01-27
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-11-27

Method Summary

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

Job ID: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Method	Method Description	Protocol	Laboratory
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
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:

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: 380-244779-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-244779-1	HALAWA WELLS P1 (331-023-WL065)	Drinking Water	10/26/26 11:14	10/28/26 10:00	Hawaii
380-244779-2	TB: HALAWA WELLS P1 (331-023-WL065)	Water	10/26/26 11:14	10/28/26 10:00	Hawaii

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

Chain of Custody Record

eurofins

380-244779 COC

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

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1_SIM	8016B_GRO_LL - (MOD) GRO	8016B_DRO_LL_C8 - HNL Ranges: C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I		
Halawa Wells P1 (331-023-WL065)	26-Oct-2026	1114	G	Water		X	4	5	4	2				
Halawa Wells P1 (331-023-WL065) (Matrix Spike)				Water			X	X	X					
Halawa Wells P1 (331-023-WL065)(Matrix Spike Duplicate)				Water			X	X	X					
TB: Halawa Wells P1 (331-023-WL065)	26-Oct-2026	1114		Water				2						

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[redacted]	27Oct.2026 1400	HBWS		10/28/26 10:00	EEAP
	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: FSTK 0.8-0.2=0.6° GEL-FROZEN

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: 27OCT26
ACTWGT: 57.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768
(626) 386-1100 REF:
INV:
PO: DEPT:

58KJ3/A338/4B4B

FedEx Express

J2620261015Ouv

4 of 5

MPS# 0263 8793 1356 2922
Mstr# 8793 1356 2896

WED - 28 OCT 10:30A
PRIORITY OVERNIGHT

0201

91768
CA-US ONT

WM ONTA

1.9-0.2=1.7 gal (7.9L)

Pkg Rvqd 5. 10/28/26 1000

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

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

Chain of Custody Record

eurofins | Et

Loc: 380
244779

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-398690.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State - Hawaii		Job #: 380-244779-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 11/9/2026			Preservation Codes:
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			

380-244779 Chain of Custody

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_C5/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	625.1/525_Prep(MOD) Tentatively Identified Compounds (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:									Other: N/A
HALAWA WELLS P1 (331-023-WL065) (380-244779-1)	10/26/26	11:14 Hawaiian	G	Water			X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS P1 (331-023-WL065) (380-244779-1MS)	10/26/26	11:14 Hawaiian	G	Water			X	X	X	X	3	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS P1 (331-023-WL065) (380-244779-1MSD)	10/26/26	11:14 Hawaiian	G	Water			X	X	X	X	3	MRLs are needed. Confirm any hits >RL.
TB: HALAWA WELLS P1 (331-023-WL065) (380-244779-2)	10/26/26	11:14 Hawaiian	G	Water				X			2	MRLs are needed. Confirm any hits >RL.

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

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

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Mark Urrutia	10/28/26 1630	ELAP	Manuel Garcia	10/28/26 1630	WW
2	Manuel Garcia	10/28/26 1811	WW		10/28/26 1811	EC
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6/1.4 2.1/1.9 FR-3

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-244779-1
SDG Number: Weekly: Halawa Wells P1 (MS/MSD)

Login Number: 244779
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	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-244779-1
SDG Number: Weekly: Halawa Wells P1 (MS/MSD)

Login Number: 244779
List Number: 2
Creator: Mills, Mary

List Source: Eurofins Calscience
List Creation: 10/28/26 07:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4, 1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	