

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mr. Erwin Kawata City & County of Honolulu 630 South Beretania Street Public Service Bldg. Room 310 Honolulu, Hawaii 96843 Generated 9/4/2024 8:31:16 AM

# JOB DESCRIPTION

RED-HILL Aiea Gulch Wells P2

# JOB NUMBER

380-110732-1

Eurofins Eaton Analytical Pomona 941 Corporate Center Drive Pomona CA 91768-2642





# **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

Generated 9/4/2024 8:31:16 AM

Authorized for release by Rachelle Arada, Project Manager Rachelle.Arada@et.eurofinsus.com (626)386-1106 5 6 7

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## **Definitions/Glossary**

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

Glossary		_ 3
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	A
%R	Percent Recovery	
CFL	Contains Free Liquid	5
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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	13
NC	Not Calculated	13
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)	

- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

#### Job ID: 380-110732-1

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## Job Narrative 380-110732-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 8/28/2024 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

#### GC/MS VOA

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

### Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-110732-1

No Detections.

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072) Lab Sample ID: 380-1107	32-2 5

No Detections.

RL

2.0

Limits

70 - 130

70 - 130

70 - 130

Unit

ug/L

D

Prepared

Prepared

Analyte

Surrogate

Toluene-d8 (Surr)

Tertiary Butyl Alcohol (TBA)

4-Bromofluorobenzene (Surr)

1,2-Dichloroethane-d4 (Surr)

Job ID: 380-110732-1 SDG: Aiea Gulch Wells P2

#### **Client Sample ID: AIEA GULCH WELLS PUMP 2** (331-202-TP072) Date Collected: 08/26/24 10:30 Date Received: 08/28/24 09:54

# Lab Sample ID: 380-110732-1

Analyzed

09/03/24 17:00

Analyzed

09/03/24 17:00

09/03/24 17:00

09/03/24 17:00

Matrix: Water

Lab Sample ID: 380-110732-2

# Matrix: Drinking Water Dil Fac 6 Dil Fac 1 1 1

#### Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072) Date Collected: 08/26/24 10:30 Date Received: 08/28/24 09:54

%Recovery

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

**Result Qualifier** 

Qualifier

<2.0

96

95

104

#### Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM) Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Tertiary Butyl Alcohol (TBA) <2.0 2.0 ug/L 09/03/24 17:22 1 %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 96 70 - 130 09/03/24 17:22 1 4-Bromofluorobenzene (Surr) 97 70 - 130 09/03/24 17:22 1,2-Dichloroethane-d4 (Surr) 101 70 - 130 09/03/24 17:22

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# Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Drinking Wate	r				Prep Type: Total/NA
-			Pe	ercent Surrogate	Recovery (Acceptance Limits)
		TOL	BFB	DCA	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	
380-110732-1	AIEA GULCH WELLS PUMP 2 (	96	95	104	
Surrogate Legend					
TOL = Toluene-d8 (Surr)	)				
BFB = 4-Bromofluorober	nzene (Surr)				
DCA = 1,2-Dichloroethar	ne-d4 (Surr)				

# Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

			Pe	ercent Surrogate Recove	erv (Acceptance Limits)
		TOL	BFB	DCA	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	
380-110732-2	TB:AIEA GULCH WELLS P2 (33	96	97	101	
LCS 380-106526/2	Lab Control Sample	97	91	101	
LCSD 380-106526/3	Lab Control Sample Dup	96	94	100	
MB 380-106526/5	Method Blank	97	93	104	
Surrogate Legend					
TOL = Toluene-d8 (Su	ırr)				
BFB = 4-Bromofluorol	penzene (Surr)				
DCA = 1,2-Dichloroeth	nane-d4 (Surr)				
lethod: 524.2 - \	/olatile Organic Compou	nds (G	C/MS S	M)	
latrix: Water	<b>.</b> .	``		•	Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)				
		TOL	BFB	DCA			
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)			
MRL 380-106526/4	Lab Control Sample	96	95	103			

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

## **QC Sample Results**

## Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 380-10	06526/5							0	Clie	nt Sam	ple ID: M		
Matrix: Water											Prep Ty	pe: To	otal/NA
Analysis Batch: 106526													
		MB N	ИB										
Analyte	Re	sult Q	Qualifier	RL		Unit		D	Pr	repared	Analyz	zed	Dil Fa
Tertiary Butyl Alcohol (TBA)		<2.0		2.0		ug/L					09/03/24	15:29	
		мв м	ИB										
Surrogate	%Reco		Qualifier	Limits					P	repared	Analyz	hor	Dil Fac
Toluene-d8 (Surr)	///////////////////////////////////////	97 d	guunner	70 - 130				-		cpurcu	09/03/24		Dirrut
4-Bromofluorobenzene (Surr)		93		70 - 130							09/03/24		
1,2-Dichloroethane-d4 (Surr)		104		70 - 130							09/03/24		
-													
Lab Sample ID: LCS 380-1	06526/2						Cli	ent	Sar	nple ID	: Lab Con	itrol S	ample
Matrix: Water											Prep Ty	pe: To	otal/NA
Analysis Batch: 106526													
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Tertiary Butyl Alcohol (TBA)				5.00	5.91		ug/L		_	118	70 - 130		
	LCS	105											
Surrogate	%Recovery		fier	Limits									
Toluene-d8 (Surr)	97			70 - 130									
				70 - 130									
4-Bromofluorobenzene (Surr)	91			10-130									
4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380	91 101 <b>-106526/3</b>			70 - 130 70 - 130		c	lient S	Samı	ple	ID: Lat	Control		
1,2-Dichloroethane-d4 (Surr)	101					c	lient S	Samı	ple	ID: Lat	o Control S Prep Ty		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526	101			70 - 130 Spike	LCSD	LCSD	lient S	Samı	ple			pe: To	otal/NA
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte	101			70 - 130 Spike Added	Result		Unit	Samı	ple D	%Rec	Prep Ty %Rec Limits	pe: To RPD	RPE Limi
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526	101			70 - 130 Spike		LCSD		Samı			Prep Ty %Rec	pe: To	RPE Limi
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte	101	LCSD		70 - 130 Spike Added	Result	LCSD	Unit	Samı		%Rec	Prep Ty %Rec Limits	pe: To RPD	RPE Limi
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA)	101 -106526/3 			70 - 130 Spike Added	Result	LCSD	Unit	Samı		%Rec	Prep Ty %Rec Limits	pe: To RPD	RPE Limi
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte	101 - <b>106526/3</b>			70 - 130 Spike Added 5.00	Result	LCSD	Unit	Samı		%Rec	Prep Ty %Rec Limits	pe: To RPD	RPE Limi
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate	101 -106526/3 			70 - 130 Spike Added 5.00	Result	LCSD	Unit	Samı		%Rec	Prep Ty %Rec Limits	pe: To RPD	RPE Limi
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr)	101 -106526/3 			70 - 130 Spike Added 5.00 Limits 70 - 130	Result	LCSD	Unit	Samı		%Rec	Prep Ty %Rec Limits	pe: To RPD	RPC Limit
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr)	101 -106526/3 			70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130	Result	LCSD	Unit ug/L		<u>D</u>	%Rec 114	Prep Ty %Rec Limits 70 - 130	<b>RPD</b> 3	RPD Limit 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1	101 -106526/3 			70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130	Result	LCSD	Unit ug/L		<u>D</u>	%Rec 114	Prep Ty %Rec Limits 70 - 130	pe: To 	RPE Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water	101 -106526/3 			70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130	Result	LCSD	Unit ug/L		<u>D</u>	%Rec 114	Prep Ty %Rec Limits 70 - 130	pe: To 	RPE Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1	101 -106526/3 			Spike           Added           5.00           Limits           70 - 130           70 - 130           70 - 130           70 - 130	Result 5.71	LCSD Qualifier	Unit ug/L		<u>D</u>	%Rec 114	Prep Ty %Rec Limits 70 - 130	pe: To 	RPE Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526	101 -106526/3 			70 - 130 Spike Added 5.00 Limits 70 - 130 70 - 130 70 - 130 70 - 130	Result 5.71	LCSD Qualifier	Unit ug/L		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec	pe: To 	RPE Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526 Analyte	101 -106526/3 			70 - 130           Spike           Added           5.00           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130           Added	Result 5.71 MRL Result	LCSD Qualifier	Unit ug/L Cli		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec Limits	pe: To 	RPE Limit 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526	101 -106526/3 <i>LCSD</i> %Recovery 96 94 100 106526/4	Qualif		70 - 130 Spike Added 5.00 Limits 70 - 130 70 - 130 70 - 130 70 - 130	Result 5.71	LCSD Qualifier	Unit ug/L		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec	pe: To 	RPE Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA)	101 -106526/3 	Qualif 	fier	70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130         70 - 130         70 - 130         70 - 130         2.00	Result 5.71 MRL Result	LCSD Qualifier	Unit ug/L Cli		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec Limits	pe: To 	RPI Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate	101 -106526/3 <i>LCSD</i> %Recovery 96 94 100 106526/4 MRL %Recovery	Qualif 	fier	70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130         70 - 130         70 - 130         2.00         Limits	Result 5.71 MRL Result	LCSD Qualifier	Unit ug/L Cli		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec Limits	pe: To 	RPE Limi 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr)	101 -106526/3 <i>LCSD</i> %Recovery 96 94 100 106526/4 MRL %Recovery 96	Qualif 	fier	70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130         70 - 130         70 - 130         70 - 130         2.00         Limits         2.00         Limits         50 - 150	Result 5.71 MRL Result	LCSD Qualifier	Unit ug/L Cli		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec Limits	pe: To 	RPE Limit 20
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCSD 380 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: MRL 380-1 Matrix: Water Analysis Batch: 106526 Analyte Tertiary Butyl Alcohol (TBA) Surrogate	101 -106526/3 <i>LCSD</i> %Recovery 96 94 100 106526/4 MRL %Recovery	Qualif 	fier	70 - 130         Spike         Added         5.00         Limits         70 - 130         70 - 130         70 - 130         70 - 130         2.00         Limits	Result 5.71 MRL Result	LCSD Qualifier	Unit ug/L Cli		<u>D</u> Sar	%Rec 114	Prep Ty %Rec Limits 70 - 130 : Lab Con Prep Ty %Rec Limits	pe: To 	RPE Limit 20

## GC/MS VOA

#### Analysis Batch: 106526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-110732-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	524.2	
380-110732-2	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Total/NA	Water	524.2	
MB 380-106526/5	Method Blank	Total/NA	Water	524.2	
LCS 380-106526/2	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-106526/3	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-106526/4	Lab Control Sample	Total/NA	Water	524.2	

			L	.ab Chro	onicle				
lient: City & C		ıolulu							D: 380-110732-1
roject/Site: RE	=D-HILL							SDG: Alea	a Gulch Wells P2
Client Samp 331-202-TP		A GULCH W	<b>VELLS PU</b>	MP 2			Lab	Sample ID:	380-110732-1
ate Collected	d: 08/26/24 1							Matrix:	Drinking Water
-	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	524.2		1	106526	P3EE	EA POM	09/03/24 17:00	
Date Collected	d: 08/26/24 1		H WELLS	P2 (331-2	202-TP0	72)	Lab	Sample ID:	380-110732-2 Matrix: Water
Date Collected	d: 08/26/24 1	0:30	H WELLS	Dilution	202-TP0	72)	Lab	Sample ID: Prepared	
Date Collected	d: 08/26/24 1 d: 08/28/24 09	0:30 9:54	Run		Batch	72) Analyst	Lab		
Date Collected	d: 08/26/24 1 d: 08/28/24 09 Batch	0:30 9:54 Batch		Dilution	Batch	Analyst		Prepared	
Date Collected Date Received Prep Type Total/NA	d: 08/26/24 1 d: 08/28/24 0 Batch Type Analysis	0:30 9:54 Batch Method		Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed	
Date Collected Date Received Prep Type Total/NA Laboratory Refe	d: 08/26/24 1 d: 08/28/24 09 Batch Type Analysis	0:30 9:54 Batch Method	Run	Dilution Factor 1	Batch Number 106526	Analyst P3EE	Lab EA POM	Prepared or Analyzed 09/03/24 17:22	
Prep Type Total/NA	d: 08/26/24 1 d: 08/28/24 09 Batch Type Analysis	0:30 9:54 Batch <u>Method</u> 524.2	Run	Dilution Factor 1	Batch Number 106526	Analyst P3EE	Lab EA POM	Prepared or Analyzed 09/03/24 17:22	
Prep Type Total/NA	d: 08/26/24 1 d: 08/28/24 09 Batch Type Analysis	0:30 9:54 Batch <u>Method</u> 524.2	Run	Dilution Factor 1	Batch Number 106526	Analyst P3EE	Lab EA POM	Prepared or Analyzed 09/03/24 17:22	
Prep Type Total/NA	d: 08/26/24 1 d: 08/28/24 09 Batch Type Analysis	0:30 9:54 Batch <u>Method</u> 524.2	Run	Dilution Factor 1	Batch Number 106526	Analyst P3EE	Lab EA POM	Prepared or Analyzed 09/03/24 17:22	
Prep Type Total/NA	d: 08/26/24 1 d: 08/28/24 09 Batch Type Analysis	0:30 9:54 Batch <u>Method</u> 524.2	Run	Dilution Factor 1	Batch Number 106526	Analyst P3EE	Lab EA POM	Prepared or Analyzed 09/03/24 17:22	
Prep Type Total/NA	d: 08/26/24 1 d: 08/28/24 09 Batch Type Analysis	0:30 9:54 Batch <u>Method</u> 524.2	Run	Dilution Factor 1	Batch Number 106526	Analyst P3EE	Lab EA POM	Prepared or Analyzed 09/03/24 17:22	

#### Laboratory References:

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

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Hawaii State CA00006 01-31-25	Authority	Program	Identification Number	Expiration Date
	Hawaii	State	CA00006	01-31-25

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

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS SIM)	EPA-DW	EAPOM

#### Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

#### Laboratory References:

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

## Sample Summary

Job ID: 380-110732-1 SDG: Aiea Gulch Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-110732-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	08/26/24 10:30	08/28/24 09:54
380-110732-2	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	08/26/24 10:30	08/28/24 09:54

100)	0
Surte	Cruto 40
CA	1
irovia,	750 Doute Color Doute Curte 400
Mor	

750 Royal Oaks Drive Suite 100 Monrovia CA 91016 Phone (626) 386-1100

# Chain of Custody Record

📩 eurofins 🚬 🦷

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Phone (626) 386-1100										
Client Information	Sampler Bailey			Lab PM Arada	Lab PM Arada Racheile		Carner Tracking No(s)	0	COC No	
Crent Contact: Dr Ron Fenstermacher	Phone +1 808-748-5840			E-Mail Rechell	e Arada(	E-Mail Rachelle Arada@et.euronisus com	State of Origin		Page Page 2 of 2	
Company City & County of Honolulu		<u>и.</u>	DISMd			SIS	Requested		# qor	
Address 630 South Beretania Street: Chemistry Lab	Due Date Requested								eservation Codes	ane
City Honolulu	TAT Requested (days)								B NaOH O AsNaO2 C Zn Acetate P Na2O4S	a02
State Zip HI 96843	Compliance Project.	∆ No				Ц N			Natric Acid Natric Acid Nacht R	Na2S203 Na2S203
Phone. 808-748-5091 (tel)	PO#- C20525101 exp 05312023	5312023		(0	hole chosel	380-110732 COC			Amchlor S Ascorbic Acid	H2SO4 TSP Dodecahydrate
Email Ifenstemacher@hbws.org	# OM			I OF NO	(oN			5,	J DI Water	one A-5
Project Name RED-HILL	Project #- 38001111			səY) ə	l 10 se			ionležr	L EDA 2	other (specify)
Site	SSOW#-			dms2	r) as			100 10	Other	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (vr=watr s=solic. Or=wastebili. BT-Tissue. A-Air)	Perform MSIM 524 2_SIM_PRE			TedmUN IstoT	Special Instructions/Note	ns/Note
	Ň	17	00	1						
Aica Gulch Wells P2	26-Aug 2024 [[(	1221	đ	Water	3				Red Hill Quarterly re-sample	e-sample
			-							
Travel Blank	26 Aug 2024 1(	8			2					
									-	
									-	
										2
0										
Possible Hazard Identification	son B Unknown		Radiological		sample	Sample Ulsposal ( A tee may be assessed it samples are retained longer than 7 month) — Return To Client — Disposal By Lab — Archive For Mor	assessed if sampi Disposal By Lab	es are retain	tained longer than 1 month) Archive For Months	ths
ested I II III IV Other (specify)			,		Special I	Special Instructions/QC Requirements				
Empty Kit Relinquished by	Da	Date			Time /	VU	Method of Shipment FEN		Ex 7782 2165	6661
Reimquished t	21309,2024	7	KLOOHB	Company	Rect	VEDY - C	S.REITNER 08		09:54	
Relinqu shed by:	Date/Time		5 O	Company	Recei		Date/Tin	/Time:	Campany	_
	Date/Time.		Cor	Company	Recei	Received by	Date	Date/Time.	Company	
Custody Seals Intact. Custody Seal No					Coole	Cooler Temperature(s) °C and Other Remarks	15IA	3.10-0.1	.1°=3.0°8ECF	- FROTEN
					1	1 1: 1:	9	7	Ver 01	01 10 2019
				5	4	1 2 3	0			

## Login Sample Receipt Checklist

Client: City & County of Honolulu

#### Login Number: 110732 List Number: 1 Creator: Gerfen, Chris

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

Job Number: 380-110732-1 SDG Number: Aiea Gulch Wells P2

List Source: Eurofins Eaton Analytical Pomona