

## ANALYTICAL REPORT

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Tel: (626)386-1100

Laboratory Job ID: 380-4027-1  
Client Project/Site: RED-HILL

For:  
City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 308  
Honolulu, Hawaii 96843

Attn: Mr. Erwin Kawata



Authorized for release by:  
10/19/2022 6:26:18 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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)



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Debbie Frank  
Project Manager  
10/19/2022 6:26:18 PM





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# Definitions/Glossary

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

Job ID: 380-4027-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

### 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.
α	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/Site: RED-HILL

Job ID: 380-4027-1

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## Job ID: 380-4027-1

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### Laboratory: Eurofins Eaton Monrovia

#### Narrative

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#### Job Narrative 380-4027-1

#### Comments

TPH 8015 Gas, Diesel, and Motor Oil were received at the sublab past Holding time (HT). Results are not available for Halawa Shaft Viewing Pool sampled 6/6/22.

#### Receipt

The samples were received on 6/9/2022 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.1° C, 4.9° C and 5.3° C.

#### GC/MS Semi VOA

Method 525.2: The method blank for preparation batch 380-5910 and analytical batch 380-6330 contained Di(2-ethylhexyl)adipate and Di-n-butyl phthalate above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

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

#### Subcontract non-Sister

See attached subcontract report.

#### Organic Prep

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

#### Subcontract Work

Methods 8015 Diesel LL (EAL) and Motor Oil, 8015 Gas (Purgeable) LL (EAL): These methods were subcontracted to EMAX Laboratories Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report.

# Detection Summary

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

Job ID: 380-4027-1

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-4027-1**

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Monrovia

# Client Sample Results

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

Job ID: 380-4027-1

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-4027-1**

Date Collected: 06/06/22 09:30

Matrix: Water

Date Received: 06/09/22 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
2,4'-DDE	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
2,4'-DDT	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
2,4-Dinitrotoluene	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
2,6-Dinitrotoluene	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
4,4'-DDD	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
4,4'-DDE	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
4,4'-DDT	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Acenaphthene	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Acenaphthylene	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Acetochlor	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Alachlor	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
alpha-BHC	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
alpha-Chlordane	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Anthracene	ND		0.019	ug/L		06/15/22 13:13	06/21/22 14:54	1
Atrazine	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Benz(a)anthracene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Benzo[a]pyrene	ND		0.019	ug/L		06/15/22 13:13	06/21/22 14:54	1
Benzo[b]fluoranthene	ND		0.019	ug/L		06/15/22 13:13	06/21/22 14:54	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Benzo[k]fluoranthene	ND		0.019	ug/L		06/15/22 13:13	06/21/22 14:54	1
beta-BHC	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Bromacil	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Butachlor	ND	*+	0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Butylbenzylphthalate	ND	*+	0.49	ug/L		06/15/22 13:13	06/21/22 14:54	1
Caffeine	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Chlorobenzilate	ND	*+	0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Chloroneb	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Chlorothalonil (Draconil, Bravo)	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Chlorpyrifos	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Chrysene	ND		0.019	ug/L		06/15/22 13:13	06/21/22 14:54	1
delta-BHC	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Di(2-ethylhexyl)adipate	ND	^3+ *+	0.58	ug/L		06/15/22 13:13	06/21/22 14:54	1
Bis(2-ethylhexyl) phthalate	ND		0.58	ug/L		06/15/22 13:13	06/21/22 14:54	1
Diazinon (Qualitative)	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Diclorvos (DDVP)	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Dieldrin	ND		0.19	ug/L		06/15/22 13:13	06/21/22 14:54	1
Diethylphthalate	ND		0.49	ug/L		06/15/22 13:13	06/21/22 14:54	1
Dimethoate	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Dimethylphthalate	ND		0.49	ug/L		06/15/22 13:13	06/21/22 14:54	1
Di-n-butyl phthalate	ND		0.97	ug/L		06/15/22 13:13	06/21/22 14:54	1
Di-n-octyl phthalate	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Endosulfan I (Alpha)	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Endosulfan II (Beta)	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Endosulfan sulfate	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Endrin	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Endrin aldehyde	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
EPTC	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1

# Client Sample Results

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

Job ID: 380-4027-1

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-4027-1**

Date Collected: 06/06/22 09:30

Matrix: Water

Date Received: 06/09/22 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Fluorene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
gamma-Chlordane	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Heptachlor	ND	^3+	0.039	ug/L		06/15/22 13:13	06/21/22 14:54	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Hexachlorobenzene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Isophorone	ND		0.49	ug/L		06/15/22 13:13	06/21/22 14:54	1
Lindane	ND		0.039	ug/L		06/15/22 13:13	06/21/22 14:54	1
Malathion	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Methoxychlor	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Metolachlor	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Metribuzin	ND	^3+	0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Molinate	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Naphthalene	ND		0.29	ug/L		06/15/22 13:13	06/21/22 14:54	1
Parathion	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Pendimethalin (Penoxaline)	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Total Permethrin (mixed isomers)	ND		0.19	ug/L		06/15/22 13:13	06/21/22 14:54	1
Phenanthrene	ND		0.039	ug/L		06/15/22 13:13	06/21/22 14:54	1
Propachlor	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Pyrene	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Simazine	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Terbacil	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Terbutylazine	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1
Thiobencarb	ND		0.19	ug/L		06/15/22 13:13	06/21/22 14:54	1
trans-Nonachlor	ND		0.049	ug/L		06/15/22 13:13	06/21/22 14:54	1
Trifluralin	ND		0.097	ug/L		06/15/22 13:13	06/21/22 14:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/15/22 13:13	06/21/22 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	06/15/22 13:13	06/21/22 14:54	1
Triphenylphosphate	98		70 - 130	06/15/22 13:13	06/21/22 14:54	1
Perylene-d12	92		70 - 130	06/15/22 13:13	06/21/22 14:54	1



# Action Limit Summary

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

Job ID: 380-4027-1

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-4027-1**

## 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	ND		ug/L	2	0.049	525.2	Total/NA
Atrazine	ND		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.019	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND	^3+ **	ug/L	400	0.58	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.58	525.2	Total/NA
Endrin	ND		ug/L	2	0.097	525.2	Total/NA
Heptachlor	ND	^3+	ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.049	525.2	Total/NA
Lindane	ND		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.097	525.2	Total/NA
Simazine	ND		ug/L	4	0.049	525.2	Total/NA

# Surrogate Summary

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

Job ID: 380-4027-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	TPP (70-130)	PRY (70-130)
380-2611-A-1-A MS	Matrix Spike	97	102	95
380-2794-B-1-A DU	Duplicate	101	100	90
380-4027-1	HALAWA SHAFT VIEWING POOL	96	98	92
LCS 380-5910/3-A	Lab Control Sample	97	96	95
LCSD 380-5910/4-A	Lab Control Sample Dup	95	109	93
MB 380-5910/1-A	Method Blank	96	99	90
MRL 380-5910/2-A	Lab Control Sample	100	103	88

#### Surrogate Legend

2NMX = 2-Nitro-m-xylene

TPP = Triphenylphosphate

PRY = Perylene-d12

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: MB 380-5910/1-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
2,4'-DDE	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
2,4'-DDT	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
2,4-Dinitrotoluene	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
2,6-Dinitrotoluene	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
4,4'-DDD	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
4,4'-DDE	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
4,4'-DDT	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Acenaphthene	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Acenaphthylene	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Acetochlor	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Alachlor	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
alpha-BHC	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
alpha-Chlordane	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Anthracene	ND		0.020	ug/L		06/15/22 13:05	06/21/22 13:05	1
Atrazine	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Benz(a)anthracene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Benzo[a]pyrene	ND		0.020	ug/L		06/15/22 13:05	06/21/22 13:05	1
Benzo[b]fluoranthene	ND		0.020	ug/L		06/15/22 13:05	06/21/22 13:05	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Benzo[k]fluoranthene	ND		0.020	ug/L		06/15/22 13:05	06/21/22 13:05	1
beta-BHC	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Bromacil	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Butachlor	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Butylbenzylphthalate	ND		0.49	ug/L		06/15/22 13:05	06/21/22 13:05	1
Caffeine	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Chlorobenzilate	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Chloroneb	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Chlorothalonil (Draconil, Bravo)	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Chlorpyrifos	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Chrysene	ND		0.020	ug/L		06/15/22 13:05	06/21/22 13:05	1
delta-BHC	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		06/15/22 13:05	06/21/22 13:05	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		06/15/22 13:05	06/21/22 13:05	1
Diazinon (Qualitative)	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Diclorvos (DDVP)	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Dieldrin	ND		0.20	ug/L		06/15/22 13:05	06/21/22 13:05	1
Diethylphthalate	ND		0.49	ug/L		06/15/22 13:05	06/21/22 13:05	1
Dimethoate	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Dimethylphthalate	ND		0.49	ug/L		06/15/22 13:05	06/21/22 13:05	1
Di-n-butyl phthalate	ND		0.99	ug/L		06/15/22 13:05	06/21/22 13:05	1
Di-n-octyl phthalate	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Endosulfan I (Alpha)	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Endosulfan II (Beta)	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Endosulfan sulfate	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Endrin	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Endrin aldehyde	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: MB 380-5910/1-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Fluoranthene	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Fluorene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
gamma-Chlordane	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Heptachlor	ND		0.039	ug/L		06/15/22 13:05	06/21/22 13:05	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Hexachlorobenzene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Isophorone	ND		0.49	ug/L		06/15/22 13:05	06/21/22 13:05	1
Lindane	ND		0.039	ug/L		06/15/22 13:05	06/21/22 13:05	1
Malathion	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Methoxychlor	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Metolachlor	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Metribuzin	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Molinate	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Naphthalene	ND		0.30	ug/L		06/15/22 13:05	06/21/22 13:05	1
Parathion	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Pendimethalin (Penoxaline)	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		06/15/22 13:05	06/21/22 13:05	1
Phenanthrene	ND		0.039	ug/L		06/15/22 13:05	06/21/22 13:05	1
Propachlor	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Pyrene	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Simazine	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Terbacil	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Terbutylazine	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1
Thiobencarb	ND		0.20	ug/L		06/15/22 13:05	06/21/22 13:05	1
trans-Nonachlor	ND		0.049	ug/L		06/15/22 13:05	06/21/22 13:05	1
Trifluralin	ND		0.099	ug/L		06/15/22 13:05	06/21/22 13:05	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>n-Hexadecanoic acid</i>	0.710	T J N	ug/L		5.37	57-10-3	06/15/22 13:05	06/21/22 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	06/15/22 13:05	06/21/22 13:05	1
Triphenylphosphate	99		70 - 130	06/15/22 13:05	06/21/22 13:05	1
Perylene-d12	90		70 - 130	06/15/22 13:05	06/21/22 13:05	1

**Lab Sample ID: LCS 380-5910/3-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	2.25		ug/L		114	70 - 130
2,4'-DDE	1.97	2.09		ug/L		106	70 - 130
2,4'-DDT	1.97	2.10		ug/L		107	70 - 130
2,4-Dinitrotoluene	1.97	2.04		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.97	2.12		ug/L		108	70 - 130

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: LCS 380-5910/3-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.97	2.23		ug/L		113	70 - 130
4,4'-DDE	1.97	2.18		ug/L		111	70 - 130
4,4'-DDT	1.97	2.10		ug/L		107	70 - 130
Acenaphthene	1.97	2.04		ug/L		104	70 - 130
Acenaphthylene	1.97	1.92		ug/L		98	70 - 130
Acetochlor	1.97	2.25		ug/L		114	70 - 130
Alachlor	1.97	2.12		ug/L		108	70 - 130
alpha-BHC	1.97	2.13		ug/L		108	70 - 130
alpha-Chlordane	1.97	2.11		ug/L		107	70 - 130
Anthracene	1.97	2.19		ug/L		111	70 - 130
Atrazine	1.97	2.24		ug/L		114	70 - 130
Benz(a)anthracene	1.97	2.14		ug/L		109	70 - 130
Benzo[a]pyrene	1.97	2.19		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.97	2.43		ug/L		124	70 - 130
Benzo[g,h,i]perylene	1.97	2.26		ug/L		115	70 - 130
Benzo[k]fluoranthene	1.97	2.34		ug/L		119	70 - 130
beta-BHC	1.97	2.12		ug/L		108	70 - 130
Bromacil	1.97	2.25		ug/L		114	70 - 130
Butachlor	1.97	2.44		ug/L		124	70 - 130
Butylbenzylphthalate	1.97	2.29		ug/L		116	70 - 130
Caffeine	1.97	1.31		ug/L		66	45 - 137
Chlorobenzilate	1.97	2.39		ug/L		122	70 - 130
Chloroneb	1.97	2.14		ug/L		109	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.26		ug/L		115	70 - 130
Chlorpyrifos	1.97	2.26		ug/L		115	70 - 130
Chrysene	1.97	2.07		ug/L		105	70 - 130
delta-BHC	1.97	2.18		ug/L		111	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.60	+	ug/L		132	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.30		ug/L		117	70 - 130
Diazinon (Qualitative)	1.97	1.90		ug/L		96	15 - 132
Dibenz(a,h)anthracene	1.97	2.30		ug/L		117	70 - 130
Diclorvos (DDVP)	1.97	2.37		ug/L		120	70 - 130
Dieldrin	1.97	2.05		ug/L		104	70 - 130
Diethylphthalate	1.97	2.14		ug/L		109	70 - 130
Dimethoate	1.97	1.26		ug/L		64	35 - 100
Dimethylphthalate	1.97	2.22		ug/L		113	70 - 130
Di-n-butyl phthalate	3.94	4.49		ug/L		114	70 - 130
Di-n-octyl phthalate	1.97	2.15		ug/L		109	70 - 130
Endosulfan I (Alpha)	1.97	2.08		ug/L		106	70 - 130
Endosulfan II (Beta)	1.97	2.10		ug/L		107	70 - 130
Endosulfan sulfate	1.97	2.02		ug/L		102	70 - 130
Endrin	1.97	2.13		ug/L		108	70 - 130
Endrin aldehyde	1.97	2.00		ug/L		102	70 - 130
EPTC	1.97	2.00		ug/L		102	70 - 130
Fluoranthene	1.97	2.31		ug/L		117	70 - 130
Fluorene	1.97	2.25		ug/L		114	70 - 130
gamma-Chlordane	1.97	2.16		ug/L		110	70 - 130
Heptachlor	1.97	2.22		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.23		ug/L		113	70 - 130

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: LCS 380-5910/3-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.97	1.91		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.97	2.18		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.36		ug/L		120	70 - 130
Isophorone	1.97	2.09		ug/L		106	70 - 130
Lindane	1.97	2.18		ug/L		111	70 - 130
Malathion	1.97	2.33		ug/L		118	70 - 130
Methoxychlor	1.97	2.19		ug/L		111	70 - 130
Metolachlor	1.97	2.44		ug/L		124	70 - 130
Metribuzin	1.97	2.07		ug/L		105	70 - 130
Molinate	1.97	2.15		ug/L		109	70 - 130
Naphthalene	1.97	1.94		ug/L		99	70 - 130
Parathion	1.97	2.24		ug/L		114	70 - 130
Pendimethalin (Penoxaline)	1.97	2.10		ug/L		107	70 - 130
Phenanthrene	1.97	2.11		ug/L		107	70 - 130
Propachlor	1.97	2.21		ug/L		112	70 - 130
Pyrene	1.97	2.31		ug/L		117	70 - 130
Simazine	1.97	2.32		ug/L		118	70 - 130
Terbacil	1.97	2.09		ug/L		106	70 - 130
Terbutylazine	1.97	2.16		ug/L		110	70 - 130
Thiobencarb	1.97	2.22		ug/L		113	70 - 130
trans-Nonachlor	1.97	2.11		ug/L		107	70 - 130
Trifluralin	1.97	2.04		ug/L		104	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Triphenylphosphate	96		70 - 130
Perylene-d12	95		70 - 130

**Lab Sample ID: LCSD 380-5910/4-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
2,4'-DDD	1.97	2.41		ug/L		123	70 - 130	7	20
2,4'-DDE	1.97	2.19		ug/L		112	70 - 130	5	20
2,4'-DDT	1.97	2.41		ug/L		123	70 - 130	14	20
2,4-Dinitrotoluene	1.97	2.14		ug/L		109	70 - 130	4	20
2,6-Dinitrotoluene	1.97	2.04		ug/L		104	70 - 130	4	20
4,4'-DDD	1.97	2.49		ug/L		127	70 - 130	11	20
4,4'-DDE	1.97	2.43		ug/L		123	70 - 130	11	20
4,4'-DDT	1.97	2.49		ug/L		127	70 - 130	17	20
Acenaphthene	1.97	2.06		ug/L		105	70 - 130	1	20
Acenaphthylene	1.97	1.97		ug/L		100	70 - 130	2	20
Acetochlor	1.97	2.35		ug/L		119	70 - 130	4	20
Alachlor	1.97	2.21		ug/L		113	70 - 130	5	20
alpha-BHC	1.97	2.23		ug/L		113	70 - 130	5	20
alpha-Chlordane	1.97	2.37		ug/L		121	70 - 130	11	20
Anthracene	1.97	2.16		ug/L		110	70 - 130	1	20

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: LCSD 380-5910/4-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
Atrazine	1.97	2.47		ug/L		126	70 - 130	10	20
Benz(a)anthracene	1.97	2.48		ug/L		126	70 - 130	15	20
Benzo[a]pyrene	1.97	2.07		ug/L		105	70 - 130	5	20
Benzo[b]fluoranthene	1.97	2.20		ug/L		112	70 - 130	10	20
Benzo[g,h,i]perylene	1.97	2.11		ug/L		107	70 - 130	7	20
Benzo[k]fluoranthene	1.97	2.15		ug/L		109	70 - 130	9	20
beta-BHC	1.97	2.33		ug/L		119	70 - 130	9	20
Bromacil	1.97	2.31		ug/L		118	70 - 130	3	20
Butachlor	1.97	2.67	*+	ug/L		136	70 - 130	9	20
Butylbenzylphthalate	1.97	2.61	*+	ug/L		133	70 - 130	13	20
Caffeine	1.97	1.09		ug/L		55	45 - 137	19	20
Chlorobenzilate	1.97	2.62	*+	ug/L		133	70 - 130	9	20
Chloroneb	1.97	2.18		ug/L		111	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	1.97	2.48		ug/L		126	70 - 130	10	20
Chlorpyrifos	1.97	2.33		ug/L		118	70 - 130	3	20
Chrysene	1.97	2.05		ug/L		104	70 - 130	1	20
delta-BHC	1.97	2.33		ug/L		118	70 - 130	7	20
Di(2-ethylhexyl)adipate	1.97	2.88	*+	ug/L		147	70 - 130	10	20
Bis(2-ethylhexyl) phthalate	1.97	2.40		ug/L		122	70 - 130	4	20
Diazinon (Qualitative)	1.97	2.16		ug/L		110	15 - 132	13	20
Dibenz(a,h)anthracene	1.97	2.24		ug/L		114	70 - 130	3	20
Diclorvos (DDVP)	1.97	2.29		ug/L		117	70 - 130	3	20
Dieldrin	1.97	2.20		ug/L		112	70 - 130	7	20
Diethylphthalate	1.97	2.25		ug/L		114	70 - 130	5	20
Dimethoate	1.97	1.32		ug/L		67	35 - 100	5	20
Dimethylphthalate	1.97	2.12		ug/L		108	70 - 130	5	20
Di-n-butyl phthalate	3.93	4.61		ug/L		117	70 - 130	3	20
Di-n-octyl phthalate	1.97	1.96		ug/L		100	70 - 130	9	20
Endosulfan I (Alpha)	1.97	2.21		ug/L		113	70 - 130	6	20
Endosulfan II (Beta)	1.97	2.44		ug/L		124	70 - 130	15	20
Endosulfan sulfate	1.97	2.30		ug/L		117	70 - 130	13	20
Endrin	1.97	2.37		ug/L		121	70 - 130	11	20
Endrin aldehyde	1.97	2.00		ug/L		102	70 - 130	0	20
EPTC	1.97	1.97		ug/L		100	70 - 130	2	20
Fluoranthene	1.97	2.47		ug/L		126	70 - 130	7	20
Fluorene	1.97	2.28		ug/L		116	70 - 130	1	20
gamma-Chlordane	1.97	2.35		ug/L		120	70 - 130	9	20
Heptachlor	1.97	2.12		ug/L		108	70 - 130	4	20
Heptachlor epoxide (isomer B)	1.97	2.44		ug/L		124	70 - 130	9	20
Hexachlorobenzene	1.97	2.03		ug/L		103	70 - 130	6	20
Hexachlorocyclopentadiene	1.97	2.19		ug/L		112	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	1.97	2.21		ug/L		112	70 - 130	7	20
Isophorone	1.97	1.98		ug/L		101	70 - 130	5	20
Lindane	1.97	2.32		ug/L		118	70 - 130	6	20
Malathion	1.97	2.48		ug/L		126	70 - 130	6	20
Methoxychlor	1.97	2.56		ug/L		130	70 - 130	16	20
Metolachlor	1.97	2.56		ug/L		130	70 - 130	5	20
Metribuzin	1.97	2.01		ug/L		102	70 - 130	3	20
Molinate	1.97	2.18		ug/L		111	70 - 130	1	20

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: LCSD 380-5910/4-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.97	1.89		ug/L		96	70 - 130	3	20
Parathion	1.97	2.38		ug/L		121	70 - 130	6	20
Pendimethalin (Penoxaline)	1.97	2.29		ug/L		116	70 - 130	9	20
Phenanthrene	1.97	2.10		ug/L		107	70 - 130	0	20
Propachlor	1.97	2.39		ug/L		122	70 - 130	8	20
Pyrene	1.97	2.52		ug/L		128	70 - 130	9	20
Simazine	1.97	2.52		ug/L		128	70 - 130	8	20
Terbacil	1.97	2.25		ug/L		115	70 - 130	7	20
Terbutylazine	1.97	2.46		ug/L		125	70 - 130	13	20
Thiobencarb	1.97	2.22		ug/L		113	70 - 130	0	20
trans-Nonachlor	1.97	2.36		ug/L		120	70 - 130	11	20
Trifluralin	1.97	2.24		ug/L		114	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	95		70 - 130
Triphenylphosphate	109		70 - 130
Perylene-d12	93		70 - 130

**Lab Sample ID: MRL 380-5910/2-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0985	0.113		ug/L		115	50 - 150
2,4'-DDE	0.0985	0.108		ug/L		110	50 - 150
2,4'-DDT	0.0985	0.105		ug/L		106	50 - 150
2,4-Dinitrotoluene	0.0985	0.130		ug/L		133	50 - 150
2,6-Dinitrotoluene	0.0985	ND		ug/L		99	50 - 150
4,4'-DDD	0.0985	0.109		ug/L		111	50 - 150
4,4'-DDE	0.0985	0.101		ug/L		103	50 - 150
4,4'-DDT	0.0985	ND		ug/L		98	50 - 150
Acenaphthene	0.0985	0.104		ug/L		106	50 - 150
Acenaphthylene	0.0985	ND		ug/L		88	50 - 150
Acetochlor	0.0492	ND		ug/L		85	50 - 150
Alachlor	0.0492	0.0521		ug/L		106	50 - 150
alpha-BHC	0.0985	0.113		ug/L		115	50 - 150
alpha-Chlordane	0.0492	ND		ug/L		92	50 - 150
Anthracene	0.0197	0.0214		ug/L		109	50 - 150
Atrazine	0.0492	0.0490		ug/L		100	50 - 150
Benz(a)anthracene	0.0492	0.0499		ug/L		101	50 - 150
Benzo[a]pyrene	0.0197	ND		ug/L		85	50 - 150
Benzo[b]fluoranthene	0.0197	0.0207		ug/L		105	50 - 150
Benzo[g,h,i]perylene	0.0492	ND		ug/L		89	50 - 150
Benzo[k]fluoranthene	0.0197	ND		ug/L		97	50 - 150
beta-BHC	0.0985	0.108		ug/L		109	50 - 150
Bromacil	0.0985	0.148		ug/L		150	50 - 150
Butachlor	0.0492	0.0678		ug/L		138	50 - 150
Butylbenzylphthalate	0.148	ND		ug/L		122	50 - 150

Eurofins Eaton Monrovia



# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: MRL 380-5910/2-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Caffeine	0.0492	ND		ug/L		78	50 - 150
Chlorobenzilate	0.0985	0.125		ug/L		127	50 - 150
Chloroneb	0.0985	0.0988		ug/L		100	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	ND		ug/L		91	50 - 150
Chlorpyrifos	0.0492	0.0517		ug/L		105	50 - 150
Chrysene	0.0197	0.0217		ug/L		110	50 - 150
delta-BHC	0.0985	0.118		ug/L		119	50 - 150
Di(2-ethylhexyl)adipate	0.295	ND	^3+	ug/L		181	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.662		ug/L		112	50 - 150
Diazinon (Qualitative)	0.0985	ND		ug/L		97	15 - 132
Dibenz(a,h)anthracene	0.0492	ND		ug/L		92	50 - 150
Diclorvos (DDVP)	0.0492	0.0588		ug/L		119	50 - 150
Dieldrin	0.0985	ND		ug/L		119	50 - 150
Diethylphthalate	0.148	ND		ug/L		122	50 - 150
Dimethoate	0.0985	ND		ug/L		67	35 - 100
Dimethylphthalate	0.295	ND		ug/L		104	50 - 150
Di-n-butyl phthalate	0.295	ND		ug/L		134	50 - 150
Di-n-octyl phthalate	0.0985	0.103		ug/L		105	50 - 150
Endosulfan I (Alpha)	0.0985	0.107		ug/L		108	50 - 150
Endosulfan II (Beta)	0.0985	0.111		ug/L		112	50 - 150
Endosulfan sulfate	0.0985	0.110		ug/L		112	50 - 150
Endrin	0.0985	0.134		ug/L		136	50 - 150
Endrin aldehyde	0.0985	ND		ug/L		84	50 - 150
EPTC	0.0985	0.102		ug/L		104	50 - 150
Fluoranthene	0.0492	ND		ug/L		109	50 - 150
Fluorene	0.0492	0.0556		ug/L		113	50 - 150
gamma-Chlordane	0.0492	ND		ug/L		93	50 - 150
Heptachlor	0.0394	0.0765	^3+	ug/L		194	50 - 150
Heptachlor epoxide (isomer B)	0.0492	0.0494		ug/L		100	50 - 150
Hexachlorobenzene	0.0492	0.0591		ug/L		120	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0536		ug/L		109	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	ND		ug/L		87	50 - 150
Isophorone	0.0985	ND		ug/L		101	50 - 150
Lindane	0.0492	0.0443		ug/L		90	50 - 150
Malathion	0.0985	ND		ug/L		98	50 - 150
Methoxychlor	0.0985	ND		ug/L		99	50 - 150
Metolachlor	0.0492	0.0549		ug/L		112	50 - 150
Metribuzin	0.0492	0.0749	^3+	ug/L		152	50 - 150
Molinate	0.0985	0.108		ug/L		110	50 - 150
Naphthalene	0.0985	ND		ug/L		98	50 - 150
Parathion	0.0985	0.118		ug/L		120	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.111		ug/L		112	50 - 150
Phenanthrene	0.0197	ND		ug/L		119	50 - 150
Propachlor	0.0492	0.0577		ug/L		117	50 - 150
Pyrene	0.0492	0.0540		ug/L		110	50 - 150
Simazine	0.0492	0.0540		ug/L		110	50 - 150
Terbacil	0.0985	0.107		ug/L		109	50 - 150
Terbutylazine	0.0985	ND		ug/L		95	50 - 150
Thiobencarb	0.0985	ND		ug/L		116	50 - 150

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: MRL 380-5910/2-A**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	0.0492	ND		ug/L		98	50 - 150
Trifluralin	0.0985	0.113		ug/L		115	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Triphenylphosphate	103		70 - 130
Perylene-d12	88		70 - 130

**Lab Sample ID: 380-2611-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	ND		1.98	2.19		ug/L		111	70 - 130
2,4'-DDE	ND		1.98	2.05		ug/L		103	70 - 130
2,4'-DDT	ND		1.98	2.13		ug/L		108	70 - 130
2,4-Dinitrotoluene	ND		1.98	2.23		ug/L		112	70 - 130
2,6-Dinitrotoluene	ND		1.98	2.33		ug/L		118	70 - 130
4,4'-DDD	ND		1.98	2.23		ug/L		113	70 - 130
4,4'-DDE	ND		1.98	2.22		ug/L		112	70 - 130
4,4'-DDT	ND		1.98	2.20		ug/L		111	70 - 130
Acenaphthene	ND		1.98	2.11		ug/L		106	70 - 130
Acenaphthylene	ND		1.98	2.05		ug/L		103	70 - 130
Acetochlor	ND		1.98	2.33		ug/L		118	70 - 130
Alachlor	ND		1.98	2.24		ug/L		113	70 - 130
alpha-BHC	ND		1.98	2.27		ug/L		114	70 - 130
alpha-Chlordane	ND		1.98	2.18		ug/L		110	70 - 130
Anthracene	ND		1.98	1.68		ug/L		85	70 - 130
Atrazine	ND		1.98	2.43		ug/L		123	70 - 130
Benz(a)anthracene	ND		1.98	2.18		ug/L		110	70 - 130
Benzo[a]pyrene	ND		1.98	2.00		ug/L		101	70 - 130
Benzo[b]fluoranthene	ND		1.98	2.41		ug/L		122	70 - 130
Benzo[g,h,i]perylene	ND		1.98	2.19		ug/L		110	70 - 130
Benzo[k]fluoranthene	ND		1.98	2.27		ug/L		115	70 - 130
beta-BHC	ND		1.98	2.33		ug/L		118	70 - 130
Bromacil	ND		1.98	2.31		ug/L		116	70 - 130
Butachlor	ND	*+	1.98	2.46		ug/L		124	70 - 130
Butylbenzylphthalate	ND	*+	1.98	2.34		ug/L		118	70 - 130
Caffeine	ND		1.98	1.49		ug/L		75	46 - 144
Chlorobenzilate	ND	*+	1.98	2.27		ug/L		115	70 - 130
Chloroneb	ND		1.98	2.17		ug/L		110	70 - 130
Chlorothalonil (Draconil, Bravo)	ND		1.98	2.28		ug/L		115	70 - 130
Chlorpyrifos	ND		1.98	2.26		ug/L		114	70 - 130
Chrysene	ND		1.98	2.08		ug/L		105	70 - 130
delta-BHC	ND		1.98	2.34		ug/L		118	70 - 130
Di(2-ethylhexyl)adipate	ND	^3+ *+	1.98	2.50		ug/L		117	70 - 130
Bis(2-ethylhexyl) phthalate	ND		1.98	2.13		ug/L		107	70 - 130
Diazinon (Qualitative)	ND		1.98	2.25		ug/L		114	15 - 132

Eurofins Eaton Monrovia

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: 380-2611-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Dibenz(a,h)anthracene	ND		1.98	2.39		ug/L		121	70 - 130
Diclorvos (DDVP)	ND		1.98	2.38		ug/L		120	70 - 130
Dieldrin	ND		1.98	1.94		ug/L		98	70 - 130
Diethylphthalate	ND		1.98	2.26		ug/L		114	70 - 130
Dimethoate	ND		1.98	1.74		ug/L		88	34 - 111
Dimethylphthalate	ND		1.98	2.32		ug/L		117	70 - 130
Di-n-butyl phthalate	ND		3.96	4.49		ug/L		113	70 - 130
Di-n-octyl phthalate	ND		1.98	1.92		ug/L		97	70 - 130
Endosulfan I (Alpha)	ND		1.98	2.06		ug/L		104	70 - 130
Endosulfan II (Beta)	ND		1.98	2.14		ug/L		108	70 - 130
Endosulfan sulfate	ND		1.98	2.08		ug/L		105	70 - 130
Endrin	ND		1.98	2.04		ug/L		103	70 - 130
Endrin aldehyde	ND		1.98	2.00		ug/L		101	70 - 130
EPTC	ND		1.98	2.10		ug/L		106	70 - 130
Fluoranthene	ND		1.98	2.28		ug/L		115	70 - 130
Fluorene	ND		1.98	2.38		ug/L		120	70 - 130
gamma-Chlordane	ND		1.98	2.20		ug/L		111	70 - 130
Heptachlor	ND	^3+	1.98	2.19		ug/L		111	70 - 130
Heptachlor epoxide (isomer B)	ND		1.98	2.30		ug/L		116	70 - 130
Hexachlorobenzene	ND		1.98	2.06		ug/L		104	70 - 130
Hexachlorocyclopentadiene	ND		1.98	2.36		ug/L		119	70 - 130
Indeno[1,2,3-cd]pyrene	ND		1.98	2.33		ug/L		118	70 - 130
Isophorone	ND		1.98	2.13		ug/L		107	70 - 130
Lindane	ND		1.98	2.32		ug/L		117	70 - 130
Malathion	ND		1.98	2.40		ug/L		121	70 - 130
Methoxychlor	ND		1.98	2.33		ug/L		117	70 - 130
Metolachlor	ND		1.98	2.50		ug/L		126	70 - 130
Metribuzin	ND	^3+	1.98	2.12		ug/L		107	70 - 130
Molinate	ND		1.98	2.22		ug/L		112	70 - 130
Naphthalene	ND		1.98	1.96		ug/L		99	70 - 130
Parathion	ND		1.98	2.17		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	ND		1.98	2.14		ug/L		108	70 - 130
Phenanthrene	ND		1.98	2.13		ug/L		107	70 - 130
Propachlor	ND		1.98	2.38		ug/L		120	70 - 130
Pyrene	ND		1.98	2.27		ug/L		115	70 - 130
Simazine	ND		1.98	2.48		ug/L		125	70 - 130
Terbacil	ND		1.98	2.21		ug/L		112	70 - 130
Terbutylazine	ND		1.98	2.28		ug/L		115	70 - 130
Thiobencarb	ND		1.98	2.13		ug/L		107	70 - 130
trans-Nonachlor	ND		1.98	2.19		ug/L		111	70 - 130
Trifluralin	ND		1.98	2.18		ug/L		110	70 - 130
		<b>MS</b>		<b>MS</b>					
<b>Surrogate</b>		<b>%Recovery</b>		<b>Qualifier</b>		<b>Limits</b>			
2-Nitro-m-xylene		97				70 - 130			
Triphenylphosphate		102				70 - 130			
Perylene-d12		95				70 - 130			

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: 380-2794-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDD	ND		ND		ug/L		NC	20
2,4'-DDE	ND		ND		ug/L		NC	20
2,4'-DDT	ND		ND		ug/L		NC	20
2,4-Dinitrotoluene	ND		ND		ug/L		NC	20
2,6-Dinitrotoluene	ND		ND		ug/L		NC	20
4,4'-DDD	ND		ND		ug/L		NC	20
4,4'-DDE	ND		ND		ug/L		NC	20
4,4'-DDT	ND		ND		ug/L		NC	20
Acenaphthene	ND		ND		ug/L		NC	20
Acenaphthylene	ND		ND		ug/L		NC	20
Acetochlor	ND		ND		ug/L		NC	20
Alachlor	ND		ND		ug/L		NC	20
alpha-BHC	ND		ND		ug/L		NC	20
alpha-Chlordane	ND		ND		ug/L		NC	20
Anthracene	ND		ND		ug/L		NC	20
Atrazine	ND		ND		ug/L		NC	20
Benz(a)anthracene	ND		ND		ug/L		NC	20
Benzo[a]pyrene	ND		ND		ug/L		NC	20
Benzo[b]fluoranthene	ND		ND		ug/L		NC	20
Benzo[g,h,i]perylene	ND		ND		ug/L		NC	20
Benzo[k]fluoranthene	ND		ND		ug/L		NC	20
beta-BHC	ND		ND		ug/L		NC	20
Bromacil	ND		ND		ug/L		NC	20
Butachlor	ND	*+	ND	*+	ug/L		NC	20
Butylbenzylphthalate	ND	*+	ND	*+	ug/L		NC	20
Caffeine	ND		ND		ug/L		NC	20
Chlorobenzilate	ND	*+	ND	*+	ug/L		NC	20
Chloroneb	ND		ND		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	ND		ND		ug/L		NC	20
Chlorpyrifos	ND		ND		ug/L		NC	20
Chrysene	ND		ND		ug/L		NC	20
delta-BHC	ND		ND		ug/L		NC	20
Di(2-ethylhexyl)adipate	ND	^3+ *+	ND	*+	ug/L		NC	20
Bis(2-ethylhexyl) phthalate	ND		ND		ug/L		NC	20
Diazinon (Qualitative)	ND		ND		ug/L		NC	20
Dibenz(a,h)anthracene	ND		ND		ug/L		NC	20
Diclorvos (DDVP)	ND		ND		ug/L		NC	20
Dieldrin	ND		ND		ug/L		NC	20
Diethylphthalate	ND		ND		ug/L		NC	20
Dimethoate	ND		ND		ug/L		NC	20
Dimethylphthalate	ND		ND		ug/L		NC	20
Di-n-butyl phthalate	ND		ND		ug/L		NC	20
Di-n-octyl phthalate	ND		ND		ug/L		NC	20
Endosulfan I (Alpha)	ND		ND		ug/L		NC	20
Endosulfan II (Beta)	ND		ND		ug/L		NC	20
Endosulfan sulfate	ND		ND		ug/L		NC	20
Endrin	ND		ND		ug/L		NC	20
Endrin aldehyde	ND		ND		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-4027-1

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

**Lab Sample ID: 380-2794-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 6330**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 5910**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
EPTC	ND		ND		ug/L		NC	20
Fluoranthene	ND		ND		ug/L		NC	20
Fluorene	ND		ND		ug/L		NC	20
gamma-Chlordane	ND		ND		ug/L		NC	20
Heptachlor	ND	^3+	ND		ug/L		NC	20
Heptachlor epoxide (isomer B)	ND		ND		ug/L		NC	20
Hexachlorobenzene	ND		ND		ug/L		NC	20
Hexachlorocyclopentadiene	ND		ND		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	ND		ND		ug/L		NC	20
Isophorone	ND		ND		ug/L		NC	20
Lindane	ND		ND		ug/L		NC	20
Malathion	ND		ND		ug/L		NC	20
Methoxychlor	ND		ND		ug/L		NC	20
Metolachlor	ND		ND		ug/L		NC	20
Metribuzin	ND	^3+	ND		ug/L		NC	20
Molinate	ND		ND		ug/L		NC	20
Naphthalene	ND		ND		ug/L		NC	20
Parathion	ND		ND		ug/L		NC	20
Pendimethalin (Penoxaline)	ND		ND		ug/L		NC	20
Total Permethrin (mixed isomers)	ND		ND		ug/L		NC	20
Phenanthrene	ND		ND		ug/L		NC	20
Propachlor	ND		ND		ug/L		NC	20
Pyrene	ND		ND		ug/L		NC	20
Simazine	ND		ND		ug/L		NC	20
Terbacil	ND		ND		ug/L		NC	20
Terbutylazine	ND		ND		ug/L		NC	20
Thiobencarb	ND		ND		ug/L		NC	20
trans-Nonachlor	ND		ND		ug/L		NC	20
Trifluralin	ND		ND		ug/L		NC	20
		<b>DU</b>	<b>DU</b>					
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>
2-Nitro-m-xylene	101							70 - 130
Triphenylphosphate	100							70 - 130
Perylene-d12	90							70 - 130

# QC Association Summary

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

Job ID: 380-4027-1

## GC/MS Semi VOA

### Prep Batch: 5910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-4027-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-5910/1-A	Method Blank	Total/NA	Water	525.2	
LCS 380-5910/3-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-5910/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-5910/2-A	Lab Control Sample	Total/NA	Water	525.2	
380-2611-A-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-2794-B-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 6330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-4027-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	5910
MB 380-5910/1-A	Method Blank	Total/NA	Water	525.2	5910
LCS 380-5910/3-A	Lab Control Sample	Total/NA	Water	525.2	5910
LCSD 380-5910/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	5910
MRL 380-5910/2-A	Lab Control Sample	Total/NA	Water	525.2	5910
380-2611-A-1-A MS	Matrix Spike	Total/NA	Water	525.2	5910
380-2794-B-1-A DU	Duplicate	Total/NA	Water	525.2	5910



# Lab Chronicle

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

Job ID: 380-4027-1

**Client Sample ID: HALAWA SHAFT VIEWING POOL**

**Lab Sample ID: 380-4027-1**

**Date Collected: 06/06/22 09:30**

**Matrix: Water**

**Date Received: 06/09/22 10:20**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	525.2			5910	N8NE	EA MON	06/15/22 13:13
Total/NA	Analysis	525.2		1	6330	UPAC	EA MON	06/21/22 14:54

**Laboratory References:**

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100

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# Accreditation/Certification Summary

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

Job ID: 380-4027-1

## Laboratory: Eurofins Eaton Monrovia

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acenaphthene
525.2	525.2	Water	Acenaphthylene
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	Anthracene
525.2	525.2	Water	Benz(a)anthracene
525.2	525.2	Water	Benzo[b]fluoranthene
525.2	525.2	Water	Benzo[g,h,i]perylene
525.2	525.2	Water	Benzo[k]fluoranthene
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Bromacil
525.2	525.2	Water	Butylbenzylphthalate
525.2	525.2	Water	Caffeine
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	Chrysene
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diazinon (Qualitative)
525.2	525.2	Water	Dibenz(a,h)anthracene
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Diethylphthalate
525.2	525.2	Water	Dimethoate
525.2	525.2	Water	Dimethylphthalate
525.2	525.2	Water	Di-n-butyl phthalate
525.2	525.2	Water	Di-n-octyl phthalate
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	Fluoranthene
525.2	525.2	Water	Fluorene
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Indeno[1,2,3-cd]pyrene



# Accreditation/Certification Summary

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

Job ID: 380-4027-1

## Laboratory: Eurofins Eaton Monrovia (Continued)

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

Authority	Program	Identification Number	Expiration Date
-----------	---------	-----------------------	-----------------

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Molinate
525.2	525.2	Water	Naphthalene
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Phenanthrene
525.2	525.2	Water	Pyrene
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Thiobencarb
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor
525.2	525.2	Water	Trifluralin



# Method Summary

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

Job ID: 380-4027-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA MON
525.2	Extraction of Semivolatile Compounds	EPA	EA MON

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100



# Sample Summary

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

Job ID: 380-4027-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-4027-1	HALAWA SHAFT VIEWING POOL	Water	06/06/22 09:30	06/09/22 10:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



# SDG Login Review Sheet

Date: 6/16/2022

**Client Code:** EEA1201\_  
**Client:** Eurofins Eaton Analytical  
**Project:** 380-4027

**Send Report To:** Attn: Jackie Contreras  
**Company:** Eurofins Eaton Analytical  
**Address:** 750 Royal Oaks Dr., Suite 100  
Monrovia, CA 91016-3629

**EMAX PM:** Richard

**Task Order #:** NA

SDG: 22F135			DATE/ TIME RECEIVED: 6/15/2022 12:20			DUE DATE: 6/30/2022	
Lwks ID	Control #	Sample ID	Matrix	Coll Date	Time	Lwks Method	Analysis
EU55186	F135-01	380-4027-1	WATER	6/6/2022	9:30	CANCEL	Cancelled
EU55187	F135-02	380-4027-2	WATER	6/6/2022	9:30	CANCEL	Cancelled



# EMAX Laboratories, Inc.

## SDG Analysis Work Order Report

**Client Code:** EEA1201\_  
**Client:** Eurofins Eaton Analytical  
**Project:** 380-4027

**Date:** 6/16/2022  
**EMAX PM:** Richard

**SDG:** 22F135

**METHOD:** CANCEL Cancelled CANCEL

Control #	Sample ID	Matrix	Date Collected	Time	Date Received
F135-01	380-4027-1	WATER	6/6/2022	9:30	6/15/2022
F135-02	380-4027-2	WATER	6/6/2022	9:30	6/15/2022

**No. of Samples:** 2



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

# Chain of Custody Record



Environment Testing  
America



22-F135

<b>Client Information (Sub Contract Lab)</b>		Lab PM:	Frank, Debbie L																											
Client Contact:	Phone:	Carrier Tracking No(s):	COC No: 380-6901.1																											
Shipping/Receiving	Debbie.Frank@et.eurofins.com	State of Origin:	Page: Page 1 of 1																											
Company:	Accreditations Required (See note):	Hawaii	Job #: 380-4027-1																											
EMAX Laboratories Inc	State - Hawaii																													
Address: 3051 Fujita Street, City: Torrance State, Zip: CA, 90505 Phone: Email:		<b>Analysis Requested</b>																												
Due Date Requested: 6/16/2022		<table border="1"> <tr> <td>Sub (6015 Gas (Purgeable) LL (EAL)) 8015 Gas</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SUB (8015 Diesel LL (EAL) and Motor Oil) 8015</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Diesel LL (EAL) and Motor Oil</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Sub (6015 Gas (Purgeable) LL (EAL)) 8015 Gas	X	X							SUB (8015 Diesel LL (EAL) and Motor Oil) 8015									Diesel LL (EAL) and Motor Oil								
Sub (6015 Gas (Purgeable) LL (EAL)) 8015 Gas	X			X																										
SUB (8015 Diesel LL (EAL) and Motor Oil) 8015																														
Diesel LL (EAL) and Motor Oil																														
TAT Requested (days):																														
PO #:																														
WO #:																														
Project #: 38001111	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BIE=tissue, A=air)	Special Instructions/Note:																									
SSOW#:					See Attached Instructions																									
Site: Honolulu BWS Sites	6/6/22	09:30 Hawaiian	Water		See Attached Instructions																									
	6/6/22	09:30 Hawaiian	Water																											
<p>Notes: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Eaton Analytical, LLC.</p>																														
<b>Possible Hazard Identification</b>																														
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:																														
Primary Deliverable Rank: 2 Date: _____ Time: _____ Method of Shipment: _____																														
Relinquished by: <i>Megan Davis</i> Date: 6/15/22 0933 Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____																														
Custody Seals Intact: _____ Custody Seal No.: _____ <input type="checkbox"/> Yes <input type="checkbox"/> No																														

Page 30 of 41 10/19/2022



Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others <input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery	Airbill / Tracking Number	ECN <u>22F135</u> Recipient <u>Jocelyne Solis Ramos</u> Date <u>6/15/22</u> Time <u>1220</u>
---	---------------------------	--

**COC INSPECTION**

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time	<input checked="" type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input checked="" type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input type="checkbox"/> TAT
Safety Issues (if any)	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> From Superfund Site	<input type="checkbox"/> Rad screening required		

Note: \_\_\_\_\_

**PACKAGING INSPECTION**

Container <u>Correction factor -05</u>	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>12.0/1.5 °C</u>	<input checked="" type="checkbox"/> Cooler 2 <u>0.8/0.3 °C</u>	<input type="checkbox"/> Cooler 3 _____ °C
Thermometer: <u>A - S/N 210533479</u>	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input checked="" type="checkbox"/> Cooler 4 <u>07/0.2 °C</u>
		<input type="checkbox"/> Cooler 8 _____ °C	<input checked="" type="checkbox"/> Cooler 5 <u>10/0.5 °C</u>
		<input checked="" type="checkbox"/> S/N <u>210271399</u>	<input type="checkbox"/> Cooler 9 _____ °C
			<input type="checkbox"/> Cooler 10 _____ °C

Comments:  Temperature is out of range. PM was informed IMMEDIATELY.  
Note: \_\_\_\_\_

**DISCREPANCIES**

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
<u>1, 2</u>	<u>1-9</u>	<u>D10/D13</u>		
<u>2</u>	<u>8; 9</u>	<u>D22</u>	<u>1st date reads 6/16/22, and second date reads 5/24/22</u>	
<u>6/15/22</u>				

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

**NOTES/OBSERVATIONS:**

SAMPLE MATRIX IS DRINKING WATER?  YES  NO

Samples 2 container 8; 9 Analyses are covered by label.

- LEGEND:**
- |   |   |  |
|---|---|--|
| Code Description-Sample Management                            | Code Description-Sample Management            | Code Description-Sample Management   |
| D1 Analysis is not indicated in _____                         | <u>D13</u> Out of Holding Time                | R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label |
| D2 Analysis mismatch COC vs label                             | D14 Bubble is >6mm                            | R2 Refer to attached instruction   |
| D3 Sample ID mismatch COC vs label                            | D15 No trip blank in cooler                   | R3 Cancel the analysis   |
| D4 Sample ID is not indicated in _____                        | D16 Preservation not indicated in _____       | R4 Use vial with smallest bubble first   |
| D5 Container -[improper] [leaking] [broken]                   | D17 Preservation mismatch COC vs label        | R5 Log-in with latest sampling date and time+1 min                                     |
| D6 Date/Time is not indicated in _____                        | D18 Insufficient chemical preservative        | R6 Adjust pH as necessary  |
| D7 Date/Time mismatch COC vs label                            | D19 Insufficient Sample                       | R7 Filter and preserved as necessary   |
| D8 Sample listed in COC is not received                       | D20 No filtration info for dissolved analysis | R8 _____   |
| D9 Sample received is not listed in COC                       | D21 No sample for moisture determination      | R9 _____   |
| <u>D10</u> No initial/date on corrections in COC <u>label</u> | <u>D22</u> <u>has 2 dates</u>                 | R10 _____  |
| D11 Container count mismatch COC vs received                  | D23 _____                                     | R11 _____  |
| D12 Container size mismatch COC vs received                   | D24 _____                                     | R12 _____  |

**REVIEWS:**

Sample Labeling <u>JHOM</u>	SRF <u>Arjita</u>	PM _____
Date <u>6/15/22</u>	Date <u>6/15/22</u>	Date _____









Eaton Analytical

# CHAIN OF CUSTODY RECORD



380-4027 COC

750 Royal Oaks Drive, Suite 100  
Monrovia, CA 91016-3629

Phone: 626 386 1100  
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: \_\_\_\_\_

SAMPLES CHECKED AGAINST COC BY: GR

SAMPLES LOGGED IN BY: \_\_\_\_\_

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona \_\_\_\_\_ °C (Compliance:  $4 \pm 2$  °C)

Monrovia 4.1 °C (Compliance:  $4 \pm 2$  °C)

SAMPLES REC'D DAY OF COLLECTION?  (check for yes)

CONDITION OF BLUE ICE: Frozen \_\_\_\_\_ Partially Frozen  Thawed \_\_\_\_\_ Wet Ice \_\_\_\_\_ No Ice \_\_\_\_\_

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: BWS HONOLULU		PROJECT CODE: Red Hill		COMPLIANCE SAMPLES <input type="checkbox"/> - Requires state forms		NON-COMPLIANCE SAMPLES <input checked="" type="checkbox"/> x	
EEA CLIENT CODE: Honolulu		COC ID:		Type of samples (circle one): ROUTINE <input type="checkbox"/> <u>SPECIAL</u> CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)		REGULATION INVOLVED: _____	

SAMPLE GROUP:		SEE ATTACHED BOTTLE ORDER FOR ANALYSES <input type="checkbox"/> (check for yes), <u>OR</u> list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)					
---------------	--	---	--	--	--	--	--

TAT requested: rush by adv notice only		STD ___ 1 wk ___ X ___ 3 day ___ 2 day ___ 1 day ___							SAMPLER COMMENTS		
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	TPH 8015	8015 Gas_C	525		
<u>6-6-22</u>	<u>0430</u>	Halawa Shaft Viewing Pool		RGW			x	x	x		
		Travel Blank		CFW				x			
		Temperature Blank									Temp Blank: <u>14.0</u> °C

\* MATRIX TYPES: RSW = Raw Surface Water    CFW = Chlor(am)inated Finished Water    SEAW = Sea Water    BW = Bottled Water    SO = Soil    O = Other - Please Identify  
 RGW = Raw Ground Water    FW = Other Finished Water    WW = Waste Water    SW = Storm Water    SL = Sludge

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	[Redacted Signature]	Derek Dotson	Honolulu Board of Water Supply	<u>6-6-2022</u>	
RELINQUISHED BY:	[Redacted Signature]	Derek Dotson	Honolulu Board of Water Supply	<u>6-7-2022</u>	<u>1200</u>
RECEIVED BY:	<u>[Signature]</u>	<u>G RETNER</u>	<u>EEA</u>	<u>06/09/22</u>	<u>10:20</u>
RELINQUISHED BY:					
RECEIVED BY:					

PAGE 1 OF 1

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

**SAMPLE TEMP RECEIVED:**  
 Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.  
**SAMPLES REC'D DAY OF COLLECTION? Yes / No**

IR Gun ID = 649A (Observation = 4.4 °C) (Corr. Factor -0.3 °C) (Final = 4.1 °C)

TYPE OF ICE: Real  Synthetic  No Ice  CONDITION OF ICE: Frozen  Partially Frozen  Thawed  N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

**Compliance Acceptance Criteria:**

- 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (If received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

6) Chlorine check. Manufacturer: Sansafe. Lot No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

7) VOA and Radon Headspace:

No Samples with Headspace:

Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 815.4, HAA(8251,862), 505, SPME, @CH, 532LCMS, 558, 538, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6 mm	>8mm	Test	Samp ID	Bottle #	None/<6 mm	>8mm	Test	Samp ID	Bottle #	None/<6 mm	>8mm	Test	Samp ID	Bottle #	None/<6 mm	>8mm	Test	

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): \_\_\_\_\_

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	G. REITER	Eurofins Eaton Analytical	06/09/22	10:20

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Eurofins Eaton Analytical		

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

**SAMPLE TEMP RECEIVED:**  
 Note: If samples are out of temperature range, let the ASMs know, ASMs will determine whether to proceed with analysis or not.  
**SAMPLES REC'D DAY OF COLLECTION? Yes / No**

IR Gun ID = 649A (Observation = 5.2 °C) (Corr. Factor -0.3 °C) (Final = 4.9 °C)

TYPE OF ICE: Real  Synthetic  No Ice  CONDITION OF ICE: Frozen  Partially Frozen  Thawed  N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

**Compliance Acceptance Criteria:**

- 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (If received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	2 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)
3 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	4 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

4 DioxIn (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

6) Chlorine check. Manufacturer: Sansafe. Lot No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

7) VOA and Radon Headspace:

No Samples with Headspace:

Samples with Headspace (see below):

**Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)**

Exempt from headspace concerns: Methods 515.4, HAA(8251,562), 505, SPME, @CH, 532LCMS, 558, 538, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): \_\_\_\_\_

<b>SIGNATURE</b>	<b>PRINT NAME</b>	<b>COMPANY/TITLE</b>	<b>DATE</b>	<b>TIME</b>
RECEIVED BY:	GREITNER	Eurofins Eaton Analytical	06/09/22	10:20
<b>SIGNATURE</b>	<b>PRINT NAME</b>	<b>COMPANY/TITLE</b>	<b>DATE</b>	<b>TIME</b>
SAMPLES CHECKED AGAINST COC BY:		Eurofins Eaton Analytical		





eurofins

Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

### SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 5.6 °C) (Corr. Factor -0.3 °C) (Final = 5.3 °C)

TYPE OF ICE: Real  Synthetic  No Ice  CONDITION OF ICE: Frozen  Partially Frozen  Thawed  N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In  FedEx  UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

### Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (If received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

6) Chlorine check. Manufacturer: Sansafe. Lot No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

7) VOA and Radon Headspace:

No Samples with Headspace:

Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 516.4, HAA(8251,562), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<8 mm	>8mm	Test	Samp ID	Bottle #	None/<8 mm	>8mm	Test	Samp ID	Bottle #	None/<8 mm	>8mm	Test	Samp ID	Bottle #	None/<8 mm	>8mm	Test	

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): \_\_\_\_\_

SIGNATURE 	PRINT NAME <b>G. REITNER</b>	COMPANY/TITLE Eurofins Eaton Analytical	DATE <b>06/09/22</b>	TIME <b>10:20</b>
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SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Eurofins Eaton Analytical		

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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

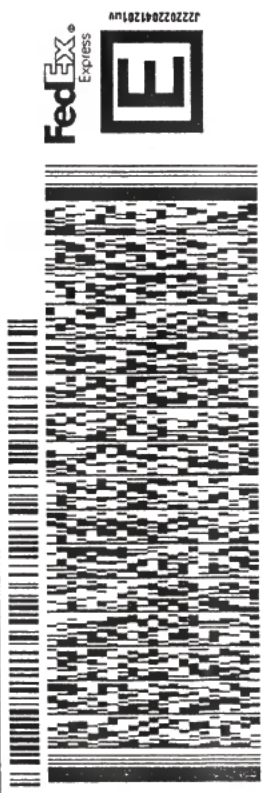
SHIP DATE: 07JUN22  
 ACTWGT: 64.00 LB  
 CAD: 100205419/NET4490

BILL RECIPIENT

**TO BROOKS**  
**EUROFINS EATON ANALYTICAL, INC**  
**750 ROYAL OAKS DR**  
**SUITE 100**  
**MONROVIA CA 91016**

(626) 386-1178 REF:  
 INV  
 PO: DEPT:

577J2274FFE4A



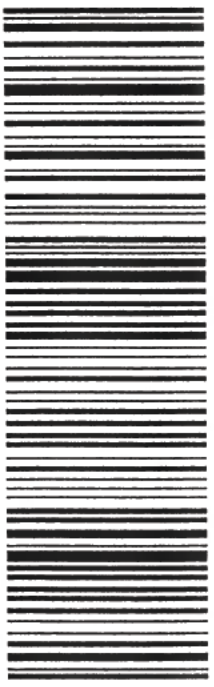
1 of 3

TRK# 7770 6349 0482  
 # MASTER ##

**WZ WHPA**

91016  
 BUR  
 CA-US

WED - 08 JUN 10:30A  
 PRIORITY OVERNIGHT



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 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.  
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 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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 Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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630 S. BERETANIA ST.  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

(808) 748-5840  
SHIP DATE: 07 JUN 22  
ACTWGT: 64.00 LB  
CAD: 100205419/INET4490

BILL RECEIPT

TO **BROOKS**

**EUROFINS EATON ANALYTICAL, INC**  
**750 ROYAL OAKS DR**  
**SUITE 100**

**MONROVIA CA 91016**  
REF: (626) 386-1178  
INV  
PO:

DEPT:

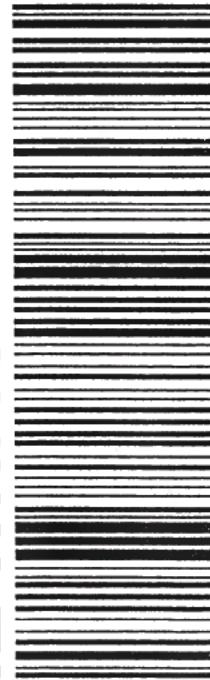
577J2274FE4A



WED - 08 JUN 10:30A  
PRIORITY OVERNIGHT

2 of 3  
MPS# 7770 6349 1180  
0263  
Mstr# 7770 6349 0482  
0201

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CA-US  
**91016 BUR**



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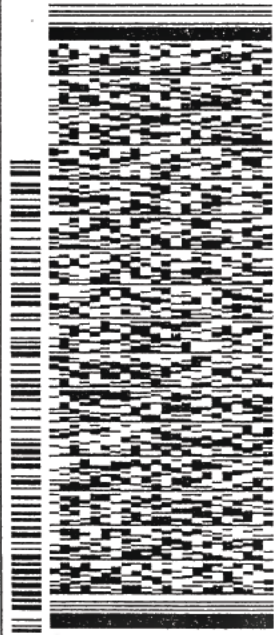
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3 of 3  
MPS# 7770 6349 1478  
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**WZ WHPA**



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380-4027 Login  
PM: Frank, Debbie L.  
Company: City & County of Honolulu

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# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-4027-1

**Login Number: 4027**  
**List Number: 1**  
**Creator: Ngo, Theodore**

**List Source: Eurofins Eaton Monrovia**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and 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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

