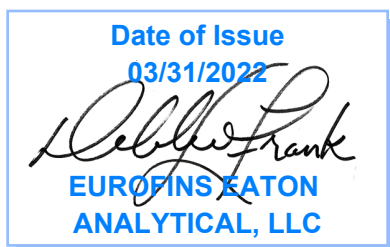


750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

Honolulu Board of Water Supply  
630 South Beretania Street  
Public Service Bldg.” Room 308  
Honolulu, HI 96843  
Attention: Erwin Kawata  
Fax: 808-550-5018



Utah ELCP CA00006

DEB: Debbie L Frank  
Project Manager

Report: 991858  
Project: INTERA  
Group: MW - INTERA Albuquerque+

\* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

\* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.

\* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.

\* Test results relate only to the sample(s) tested.

\* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).

\* This report shall not be reproduced except in full, without the written approval of the laboratory.

\* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

## STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

\* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

<https://www.eurofinsus.com/Eaton>

Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalart	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x	
Acrylamide	+ LCMS 2440)	x	
Algal Toxins/Microcystin	+ LCMS 3570	x	
Alkalinity	SM 2320B	x	x
Ammonia	EPA 350.1, SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		x
Bromate	+ LCMS- 2447	x	
Carbonate as CO3	SM 2330 B	x	x
Carbonyls	EPA 556	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+ 335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	x	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	x	x
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+ LCMS-3618	x	
Gross Alpha and Gross Beta	EPA 900.0	x	x

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+ LCMS-2443	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	+(GCMS 2412) by EPA 524.2 modified	x	

(\* ) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+ ) In-House Method

### Acknowledgement of Samples Received

Addr: **Honolulu Board of Water Supply**  
 630 South Beretania Street  
 Public Service Bldg." Room 308  
 Honolulu, HI 96843

Attn: Erwin Kawata  
 Phone: 808-748-5091

Client ID: HONOLULU  
 Folder #: 991858  
 Project: INTERA  
 Sample Group: MW - INTERA Albuquerque+

Project Manager: Debbie L Frank  
 Phone: (626) 386-1149  
 PO #: C20525101 exp 05312023

The following samples were received from you on **March 09, 2022 at 1000**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
<u>202203090820</u>	BWS2253-J1-AQ	03/08/2022 0920
	(SUB)Gas Fraction Hydrocarbons      TPH 8015 Diesel and Motor Oil	
<u>202203090821</u>	BWS2253-J1-TB	03/08/2022 0920
	(SUB)Gas Fraction Hydrocarbons	

### Test Description

EUROF01 C: 3/11/2022 12:00 AM  
 FOLDER R: 3/9/2022  
 N049752-003A 1 of 1

# CHAIN OF CUSTODY R

991858  
 b6an030922

eurofins  
 Eaton Analytical

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:  
 SAMPLE COMMENTS:  
 SAMPLE TEMP RECEIVED AT: Asset Labs  
 Colton / No. California / Arizona 3.7 °C ( Compliance: 4 ± 2 °C )  
 Monrovia 7up 3 °C ( Compliance: 4 ± 2 °C )  
 CONDITION OF BLUE ICE: Frozen  Partially Frozen  Thawed  No Ice   
 METHOD OF SHIPMENT: Pick-Up / Walk-in (FedEx)  UPS / DHL / Area Fast / Top Line / Other: FedEx # 4-4698

SAMPLES LOGGED IN BY:  
 SAMPLES REC'D DAY OF COLLECTION?  (check for yes)

TO BE COMPLETED BY SAMPLER: (check for yes)

COMPANY/AGENCY NAME: Honolulu Board of Water Supply

PROJECT CODE: RED HILL

SAMPLE GROUP: MW - INTERA Albuquerque +

EEA CLIENT CODE: HONOLULU

COC ID:

TAT requested: rush by adv notice only: **RUSH**

STD  1 wk  3 day  X  2 day  1 day

COMPLIANCE SAMPLES  NON-COMPLIANCE SAMPLES

- Requires state forms

REGULATION INVOLVED:

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA, ...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes), OR

LIST ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	TPH 8015 Diesel and Motor Oil	8015 Gas	8015 Gas Travel Blank	8015 Gas	SAMPLER COMMENTS
3/18/22	9:20 AM		BWS2253-J1-AQ	RGW			4	4			kit# 310720
3/18/22	9:20 AM		BWS2253-J1-TB	BW			2	2			Provided by EEA

Ship to: Asset Laboratories  
 3151 West Post Road  
 Las Vegas NV 89118  
 702-307-2659  
 Attn: Marlon Cartin  
 marlon@assetlaboratories.com

Bill and Report to EEA-Monrovia

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

SAMPLED BY: [Signature]  
 RELINQUISHED BY: [Signature]  
 RECEIVED BY: [Signature]  
 RELINQUISHED BY: [Signature]  
 RECEIVED BY: [Signature]

SIGNATURE PRINT NAME COMPANY/TITLE DATE TIME

Kevin Fong/ Justin Barnes The Limitaco Consulting Group 3/8/22 9:20 AM  
 Kevin Fong/ Justin Barnes The Limitaco Consulting Group 3/9/22 11:00 AM  
 Yocanda Rodriguez ASSET 3/9/22 10:00

Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

**Laboratory Comments**

**Report:** 991858  
**Project:** INTERA  
**Group:** MW - INTERA Albuquerque+

Honolulu Board of Water Supply  
Erwin Kawata  
630 South Beretania Street  
Public Service Bldg." Room 308  
Honolulu, HI 96843

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**Folder Comments**

Analytical results for TPH 8015 Diesel and Motor Oil, 8015 gas are submitted by ASSET Laboratories, Las Vegas, NV 89118 ELAP Cert 2676, NV Cert NV00922, ORELAP/NELAP Cert 4046

EEA enters Subcontractor data into EEA system for archive tracking purposes. Please review Subcontract lab report for QC data and Qualifiers that are applicable to the reported data. Significant figures may vary due to system limitations. Please review Subcontractor's report in full.

Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

**Report:** 991858  
**Project:** INTERA  
**Group:** MW - INTERA Albuquerque+

**Honolulu Board of Water Supply**  
Erwin Kawata  
630 South Beretania Street  
Public Service Bldg." Room 308  
Honolulu, HI 96843

Samples Received on:  
03/09/2022 1000

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Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
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Tel: (626) 386-1100  
 Fax: (626) 988-3757  
 1 800 566 LABS (1 800 566 5227)

**Report:** 991858  
**Project:** INTERA  
**Group:** MW - INTERA Albuquerque+

**Honolulu Board of Water Supply**  
 Erwin Kawata  
 630 South Beretania Street  
 Public Service Bldg." Room 308  
 Honolulu, HI 96843

Samples Received on:  
 03/09/2022 1000

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b><u>BWS2253-J1-AQ (202203090820)</u></b>						<b>Sampled on 03/08/2022 0920</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
03/10/22	03/09/22 12:25			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
<b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>									
03/10/22	03/10/22 04:37			(SW 8015B)	TPH Diesel	ND	ug/L	50	1
03/10/22	03/10/22 04:37			(SW 8015B)	TPH Motor Oil	ND	ug/L	50	1
<b><u>BWS2253-J1-TB (202203090821)</u></b>						<b>Sampled on 03/08/2022 0920</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
03/09/22	03/10/22 01:57			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1

Rounding on totals after summation.  
 (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.



March 11, 2022

Debbie Frank  
Eurofins  
750 Royal Oaks Drive Suite 100  
Monrovia, CA 91016-3629  
TEL: (626) 386-1158  
FAX:

Workorder No.: N049752

RE: RED HILL

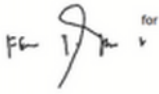
Attention: Debbie Frank

Enclosed are the results for sample(s) received on March 09, 2022 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
ELAP Cert 2921  
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

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**CLIENT:** Eurofins  
**Project:** RED HILL  
**Lab Order:** N049752

---

**CASE NARRATIVE**

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**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.



**CLIENT:** Eurofins  
**Project:** RED HILL  
**Lab Order:** N049752  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N049752-001A	991858_202203090820_BW S2253-J1-AQ	Raw Groundwater	3/8/2022 9:20:00 AM	3/9/2022	3/11/2022
N049752-001B	991858_202203090820_BW S2253-J1-AQ	Raw Groundwater	3/8/2022 9:20:00 AM	3/9/2022	3/11/2022
N049752-002A	991858_202203090821_BW S2253-J1-TB	Bottled Water	3/8/2022 9:20:00 AM	3/9/2022	3/11/2022



**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 11-Mar-22

**CLIENT:** Eurofins  
**Lab Order:** N049752  
**Project:** RED HILL  
**Lab ID:** N049752-001

**Client Sample ID:** 991858\_202203090820\_BWS2253-J  
**Collection Date:** 3/8/2022 9:20:00 AM  
**Matrix:** RAW GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**TPH CARBON CHAIN EPA 8015**

**EPA 3510C**

**EPA 8015B(M)**

RunID: NV00922-GC1_220310A	QC Batch: 91830				PrepDate: 3/10/2022	Analyst: MCC
Diesel Range Organics (C10-C28)	ND	50		ug/L	1	3/10/2022 04:37 PM
Oil Range Organics (C28-C40)	ND	50		ug/L	1	3/10/2022 04:37 PM
Surr: p-Terphenyl	89.7	33-138		%REC	1	3/10/2022 04:37 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: NV00922-GC4_220309A	QC Batch: E22VW025				PrepDate:	Analyst: DJ
GRO	ND	0.050		mg/L	1	3/9/2022 12:25 PM
Surr: Chlorobenzene - d5	80.8	69-130		%REC	1	3/9/2022 12:25 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P:562.219.7435 F:562.219.7436  
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 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

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**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 11-Mar-22

<b>CLIENT:</b> Eurofins	<b>Client Sample ID:</b> 991858_202203090821_BWS2253-J
<b>Lab Order:</b> N049752	<b>Collection Date:</b> 3/8/2022 9:20:00 AM
<b>Project:</b> RED HILL	<b>Matrix:</b> BOTTLED WATER
<b>Lab ID:</b> N049752-002	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: NV00922-GC4_220309A	QC Batch: E22VW025	PrepDate:	Analyst: DJ		
GRO	ND	0.050	mg/L	1	3/9/2022 01:57 PM
Surr: Chlorobenzene - d5	104	69-130	%REC	1	3/9/2022 01:57 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ORELAP/NELAP Cert 4046

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**ASSET Laboratories**

Date: 11-Mar-22

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: Eurofins  
 Work Order: N049752  
 Project: RED HILL

TestCode: 8015DM\_W\_CC

Sample ID: MB-91830	SampType: MBLK	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/10/2022	RunNo: 160738		
Client ID: PBW	Batch ID: 91830	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/10/2022	SeqNo: 4558795		
Analyte	Result	PQL	SPK value	SPK Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	ND	50					
Oil Range Organics (C28-C40)	ND	50					
Surr: p-Terphenyl	74.378		80.00	33	138	93.0	

Sample ID: LCS-91830	SampType: LCS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/10/2022	RunNo: 160738						
Client ID: LCSW	Batch ID: 91830	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/10/2022	SeqNo: 4558796						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	751.799	50	1000	0	75.2	48	120				
Surr: p-Terphenyl	70.307		80.00		87.9	33	138				

Sample ID: N049759-002C-MS	SampType: MS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/10/2022	RunNo: 160738						
Client ID: ZZZZZZ	Batch ID: 91830	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/10/2022	SeqNo: 4558798						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	706.409	50	1000	0	70.6	48	120				
Surr: p-Terphenyl	66.497		80.00		83.1	33	138				

Sample ID: N049759-002C-MSD	SampType: MSD	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/10/2022	RunNo: 160738						
Client ID: ZZZZZZ	Batch ID: 91830	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/10/2022	SeqNo: 4558799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	768.988	50	1000	0	76.9	48	120	706.4	8.48	20	
Surr: p-Terphenyl	73.607		80.00		92.0	33	138		0	0	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out	Calculations are based on raw values			



CALIFORNIA P:562.219.7435 F:562.219.7436 NEVADA P:702.307.2659 F:702.307.2691  
 11110 Artesia Blvd, Ste B, Cerritos, CA 90703 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2921 ELAP Cert 2676 | NV Cert NV00922  
 EPA ID:CA01638 ORELAP/NELAP Cert 4046

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Eurofins  
**Work Order:** N049752  
**Project:** RED HILL

**TestCode: 8015GAS\_WP**

Sample ID: **E220309LCS**    SampType: **LCS**    TestCode: **8015GAS\_WP**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **LCSW**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.892	0.050	1.000	0	89.2	69	143				
Surr: Chlorobenzene - d5	46.172		50.00		92.3	69	130				

Sample ID: **E220309MB**    SampType: **MBLK**    TestCode: **8015GAS\_WP**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **PBW**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Chlorobenzene - d5	48.428		50.00		96.9	69	130				


Sample ID: **N049752-001AMS**    SampType: **MS**    TestCode: **8015GAS\_WP**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **ZZZZZ**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557031**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.001	0.050	1.000	0	100	49	156				
Surr: Chlorobenzene - d5	45.855		50.00		91.7	69	130				

Sample ID: **N049752-001AMSD**    SampType: **MSD**    TestCode: **8015GAS\_WP**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **ZZZZZ**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557032**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.875	0.050	1.000	0	87.5	49	156	1.001	13.4	20	
Surr: Chlorobenzene - d5	46.181		50.00		92.4	69	130		0	0	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 ND Not Detected at the Reporting Limit  
 DO Surrogate Diluted Out  
 E Value above quantitation range  
 R RPD outside accepted recovery limits  
 H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference


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 ELAP Cert 2921 ELAP Cert 2676 | NV Cert NV00922  
 EPA ID:CA01638 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Eurofins  
**Work Order:** N049752  
**Project:** RED HILL

**TestCode: 8015GAS\_WU**

Sample ID: **E220309LCS**    SampType: **LCS**    TestCode: **8015GAS\_WU**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **LCSW**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.892	0.050	1.000	0	89.2	69	143				
Surr: Chlorobenzene - d5	46.172		50.00		92.3	69	130				

Sample ID: **E220309MB**    SampType: **MBLK**    TestCode: **8015GAS\_WU**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **PBW**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Chlorobenzene - d5	48.428		50.00		96.9	69	130				

Sample ID: **N049752-001AMS**    SampType: **MS**    TestCode: **8015GAS\_WU**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **ZZZZZ**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.001	0.050	1.000	0	100	49	156				
Surr: Chlorobenzene - d5	45.855		50.00		91.7	69	130				

Sample ID: **N049752-001AMSD**    SampType: **MSD**    TestCode: **8015GAS\_WU**    Units: **mg/L**    Prep Date:    RunNo: **160698**  
 Client ID: **ZZZZZ**    Batch ID: **E22VW025**    TestNo: **EPA 8015B**    Analysis Date: **3/9/2022**    SeqNo: **4557020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.875	0.050	1.000	0	87.5	49	156	1.001	13.4	20	
Surr: Chlorobenzene - d5	46.181		50.00		92.4	69	130		0	0	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 ND Not Detected at the Reporting Limit  
 DO Surrogate Diluted Out  
 E Value above quantitation range  
 R RPD outside accepted recovery limits  
 H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values  
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Eaton Analytical

750 Royal Oaks Drive, Suite 100  
Monrovia, CA 91016-3629  
Phone: 626 386 1100  
Fax: 626 386 1101  
800 566 LABS (800 566 5227)

# CHAIN OF CUSTODY R

EUROF01 C: 3/11/2022 12:00 AM  
FOLDER R: 3/9/2022  
N049752-003A 1 of 1

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: ASSET lots

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

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

SAMPLE TEMP RECEIVED AT: Asset lots  
 Colton / No. California / Arizona 3.7 °C ( Compliance: 4 ± 2 °C )  
 Monrovia 3 °C ( Compliance: 4 ± 2 °C )

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: Fedex 4.4.2022

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Honolulu Board of Water Supply

PROJECT CODE: RED HILL

SAMPLE GROUP: MW - INTERA Albuquerque +

EEA CLIENT CODE: HONOLULU

COC ID: \_\_\_\_\_

TAT requested: rush by adv notice only: RUSH

STD \_\_\_ 1 wk \_\_\_ 3 day \_\_\_ X \_\_\_ 2 day \_\_\_ 1 day

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	TPH 8015 Diesel and Motor Oil	8015 Gas Travel Blank	8015 Gas	SAMPLER COMMENTS
3/18/22	9:00 AM	N049752-01	BWS2253-J1-AQ	RGW			4	4	4	Kit# 310720 Provided by EEA
3/19/22	9:00 AM	-02	BWS2253-J1-TB	BW			2			

Ship to: Asset Laboratories  
 3151 West Post Road  
 Las Vegas NV 89118  
 702-307-2659  
 Attn: Marlon Cartin  
 marlon@assetlaboratories.com

Bill and Report to EEA-Monrovia

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

SIGNED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<i>[Signature]</i>	Kevin Fong/ Justin Barnes	The Limitaco Consulting Group	3/8/22	9:00 AM
RECEIVED BY:	<i>[Signature]</i>	Kevin Fong/ Justin Barnes	The Limitaco Consulting Group	3/10/22	11:00 AM
RELINQUISHED BY:	<i>[Signature]</i>	Yoonba Rodriguez	ASSET	3/9/22	1000
RECEIVED BY:					

# ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 3/9/2022 Workorder: N049752  
 Rep sample Temp (Deg C): 3.7 IR Gun ID: 3  
 Temp Blank:  Yes  No  
 Carrier name: FedEx  
 Last 4 digits of Tracking No.: 4698 Packing Material Used: Bubble Wrap  
 Cooling process:  Ice  Ice Pack  Dry Ice  Other  None

## Sample Receipt Checklist

- |   |   |                             |   |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 2. Custody seals intact, signed, dated on shipping container/cooler?                    | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 5. Sampler's name present in COC?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 6. Chain of custody signed when relinquished and received?                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 7. Chain of custody agrees with sample labels?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 8. Samples in proper container/bottle?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 9. Sample containers intact?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 10. Sufficient sample volume for indicated test?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 11. All samples received within holding time?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 12. Temperature of rep sample or Temp Blank within acceptable limit?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 13. Water - VOA vials have zero headspace?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 14. Water - pH acceptable upon receipt?<br>Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 15. Did the bottle labels indicate correct preservatives used?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 16. Were there Non-Conformance issues at login?<br>Was Client notified?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
|   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |

Comments:

Checklist Completed By: YR YRJ 3/9/2022

Reviewed By: MBC 3/10/2022

**ASSET Laboratories**

**WORK ORDER Summary**

09-Mar-22

**WorkOrder:** N049752

**Client ID:** EUROFO1

**Project:** RED HILL

**Comments:** MRL only

**QC Level:** RTNE

**Date Received:** 3/9/2022

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N049752-001A	991858_202203090820_BWS 2022 11 AC	3/8/2022 9:20:00 AM	3/11/2022	Raw Groundwater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N049752-001B			3/11/2022		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N049752-002A	991858_202203090821_BWS 2022 11 TD		3/11/2022	Bottled Water	EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N049752-003A	FOLDER	3/11/2022	3/11/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			3/11/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			3/11/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ORIGIN ID: HNLA (808) 382-6853  
INTERA, INC  
ATTN: KEVIN GOODING  
74 KIHAPAI ST  
INTERNAL PROJ NO: 1-88-02  
KAILUA, HI 96734  
UNITED STATES US

SHIP DATE: 08MAR22  
ACTWGT: 48.65 LB  
CAD: 6994245/SSFE2300  
DIMS: 24x13x14 IN  
BILL THIRD PARTY

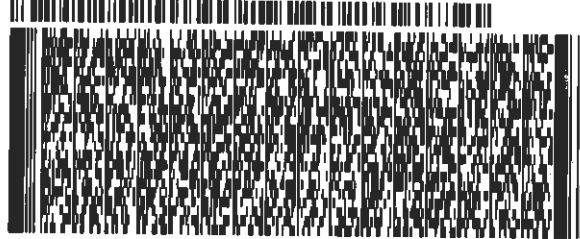
Part #: 1582974695-88888-888P 01/23

TO **ASSET LABORATORIES**  
**ATTN: SAMPLE RECV**  
**3151 WEST POST ROAD**  
**ATTN: MARLON CARTIN, SR PROJ MANAG**  
**LAS VEGAS NV 89118**

(702) 307-2668  
INU:  
PO:

REF:

DEPT:

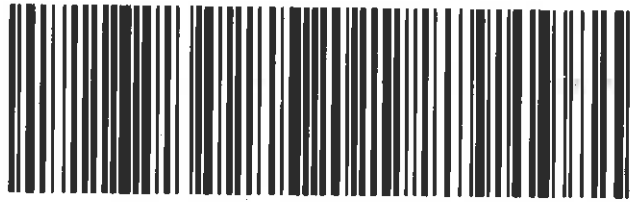


TRK# 2706 4124 4698  
0201

WED - 09 MAR 10:30A  
PRIORITY OVERNIGHT

**WR LASA**

DSR  
89118  
NV-US LAS



3.7°C  
JN# 3