

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: 982106  
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	Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x	Gross Alpha coprecipitation	SM 7110 C	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x		Hardness	SM 2340 B	x	x
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x	Hexavalent Chromium	EPA 218.6,	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x	Hexavalent Chromium	EPA 218.7,	x	
Heterotrophic Bacteria	SM 9215 B	x		Hexavalent Chromium	SM 3500-Cr B		x
Legionella	Legiolert®	x		Inorganic Anions and DBPs	EPA 300.0	x	x
Pseudomonas aeruginosa	Idexx Pseudalart	x		Norganic Anions and DBPs	EPA 300.1	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x	Kjeldahl Nitrogen	EPA 351.2		x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x	Metals	EPA 200.7, EPA200.8	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x		Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Total Microcystins and Nodularins	EPA 546	X		Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Yeast and Mold	SM 9610	x		Odor	SM2150B	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x		Organohalide Pesticides and PCB	EPA 505	x	
1,4-Dioxane	EPA 522	x		Ortho Phosphate	SM 4500P E	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x		Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Acrylamide	+ LCMS 2440)	x		Perchlorate	EPA 331.0	x	
Algal Toxins/Microcystin	+ LCMS 3570	x		Perchlorate (Low and High Levels)	EPA 314.0	x	
Alkalinity	SM 2320B	x	x	Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
Ammonia	EPA 350.1, SM 4500-NH3 H		x	PPCP and EDC	+ LCMS-2443	x	
Asbestos	EPA 100.2	x	x	pH	EPA 150.1 SM 4500-H+ B	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x	Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
BOD/CBOD	SM 5210 B		x	Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Bromate	+ LCMS- 2447	x		Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Carbonate as CO3	SM 2330 B	x	x	Radon-222	SM 7500RN	x	
Carbonyls	EPA 556	x	x	Residue (Filterable)	SM 2540C	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x	Residue (Non-Filterable)	SM 2540D		x
Chlorinated Acids	EPA 515.4	x		Residue (Total)	SM 2540B		x
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x		Residue (Volatile)	EPA 160.4		x
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x		Semi-Volatile Compounds	EPA 525.2	x	
Color	SM2120B	x		Silica	SM 4500-SiO2 C	x	x
Conductivity	EPA 120.1, SM 2510B	x	x	Sulfide	SM 4500-S D		x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x		Sulfite	SM 4500-SO3 B	x	x
Cyanide (Amenable)	SM 4500-CN G	x	x	Surfactants	SM 5540C	x	x
Cyanide (Free)	SM 4500CN F	x	x	Taste and Odor	SM 6040 E	x	
Cyanide (Total)	EPA 335.4	x	x	Total Organic Carbon	SM 5310 C	x	x
Cyanogen Chloride (Screen)	+ 335 Mod (WC-24467)	x		Total Phenols	EPA 420.1		x
Diquat and Paraquat	EPA 549.2	x		Total Phenols	EPA 420.4	x	x
DBP and HAA	SM 6251 B	x		Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Dissolved Organic Carbon	SM 5310 C	x		Turbidity	EPA 180.1	x	x
Dissolved Oxygen	SM 4500-O G		x	Uranium by ICP/MS	EPA 200.8	x	
EDB/DCBP/TCP	EPA 504.1	x		UV 254 Organic Constituents	SM 5910B	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x		VOCs	EPA 524.2	x	
EDTA and NTA	+ WC-2454	x		VOCs	+ (GCMS 2412) by EPA 524.2 modified	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				

(\* ) 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 #: 982106  
 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 **January 20, 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
202201210363	BWS2253-J1-AQ	01/19/2022 0930
	(SUB)Gas Fraction Hydrocarbons      TPH 8015 Diesel and Motor Oil	
202201210364	TRAVEL BLANK Raw	01/19/2022 0930
	(SUB)Gas Fraction Hydrocarbons	

**Test Description**

Tel: (626) 386-1100  
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**Laboratory Comments**

**Report:** 982106  
**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**

Results for TPH Carbon Chain and Gasoline Range Organics are submitted by Asset Laboratories

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**Report:** 982106  
**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:  
01/20/2022 1000

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Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
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**Report:** 982106  
**Project:** INTERA  
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**Honolulu Board of Water Supply**  
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 630 South Beretania Street  
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 Honolulu, HI 96843

Samples Received on:  
 01/20/2022 1000

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b><u>BWS2253-J1-AQ (202201210363)</u></b>						<b>Sampled on 01/19/2022 0930</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/21/22	01/21/22	11:34		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
<b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>									
01/20/22	01/25/22	04:52		(SW 8015B)	TPH Diesel	ND	ug/L	50	1
01/20/22	01/25/22	04:52		(SW 8015B)	TPH Motor Oil	ND	ug/L	50	1
<b><u>TRAVEL BLANK Raw (202201210364)</u></b>						<b>Sampled on 01/19/2022 0930</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/21/22	01/21/22	11:03		(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.

January 25, 2022

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

Workorder No.: N048978

RE: RED HILL

Attention: Debbie Frank

Enclosed are the results for sample(s) received on January 20, 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

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
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EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691  
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**CLIENT:** Eurofins  
**Project:** RED HILL  
**Lab Order:** N048978

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**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:** N048978  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N048978-001A	982106_202201210363_BW S2253-J1-AQ	Raw Groundwater	1/19/2022 9:30:00 AM	1/20/2022	1/25/2022
N048978-001B	982106_202201210363_BW S2253-J1-AQ	Raw Groundwater	1/19/2022 9:30:00 AM	1/20/2022	1/25/2022
N048978-002A	982106_202201210364_BW S2253-J1-TB	Bottled Water	1/19/2022 9:30:00 AM	1/20/2022	1/25/2022



**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 25-Jan-22

**CLIENT:** Eurofins  
**Lab Order:** N048978  
**Project:** RED HILL  
**Lab ID:** N048978-001

**Client Sample ID:** 982106\_202201210363\_BWS2253-J  
**Collection Date:** 1/19/2022 9:30:00 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-GC3_220123A	QC Batch: 91157				PrepDate: 1/20/2022	Analyst: MCC
Diesel Range Organics (C10-C28)	ND	50		ug/L	1	1/25/2022 04:52 AM
Oil Range Organics (C28-C40)	ND	50		ug/L	1	1/25/2022 04:52 AM
Surr: p-Terphenyl	86.8	33-138		%REC	1	1/25/2022 04:52 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B**

RunID: NV00922-GC4_220121A	QC Batch: E22WV005				PrepDate:	Analyst: NS
GRO	ND	0.050		mg/L	1	1/21/2022 11:34 AM
Surr: Chlorobenzene - d5	129	69-130		%REC	1	1/21/2022 11:34 AM

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



**ASSET LABORATORIES**  
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**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 25-Jan-22

<b>CLIENT:</b> Eurofins	<b>Client Sample ID:</b> 982106_202201210364_BWS2253-J
<b>Lab Order:</b> N048978	<b>Collection Date:</b> 1/19/2022 9:30:00 AM
<b>Project:</b> RED HILL	<b>Matrix:</b> BOTTLED WATER
<b>Lab ID:</b> N048978-002	

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

**EPA 8015B**

RunID: NV00922-GC4_220121A	QC Batch: E22WV005	PrepDate:	Analyst: <b>NS</b>		
GRO	ND	0.050	mg/L	1	1/21/2022 11:03 AM
Surr: Chlorobenzene - d5	123	69-130	%REC	1	1/21/2022 11:03 AM

<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	



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**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Eurofins  
**Work Order:** N048978  
**Project:** RED HILL

**TestCode:** 8015DM\_W\_CC

Sample ID: <b>MB-91157</b>	SampType: <b>MBLK</b>	TestCode: <b>8015DM_W_C</b>	Units: <b>ug/L</b>	Prep Date: <b>1/20/2022</b>	RunNo: <b>159798</b>						
Client ID: <b>PBW</b>	Batch ID: <b>91157</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>		Analysis Date: <b>1/25/2022</b>	SeqNo: <b>4511813</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	ND	50									
Oil Range Organics (C28-C40)	ND	50									
Surr: p-Terphenyl	70.740		80.00		88.4	33	138				

Sample ID: <b>LCS-91157</b>	SampType: <b>LCS</b>	TestCode: <b>8015DM_W_C</b>	Units: <b>ug/L</b>	Prep Date: <b>1/20/2022</b>	RunNo: <b>159798</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>91157</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>		Analysis Date: <b>1/25/2022</b>	SeqNo: <b>4511814</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	605.884	50	1000	0	60.6	48	120				
Surr: p-Terphenyl	73.117		80.00		91.4	33	138				

Sample ID: <b>LCSD-91157</b>	SampType: <b>LCSD</b>	TestCode: <b>8015DM_W_C</b>	Units: <b>ug/L</b>	Prep Date: <b>1/20/2022</b>	RunNo: <b>159798</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>91157</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>		Analysis Date: <b>1/25/2022</b>	SeqNo: <b>4511841</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	572.193	50	1000	0	57.2	48	120	605.9	5.72	20	
Surr: p-Terphenyl	72.731		80.00		90.9	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			

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 EPA ID:CA01638 ORELAP/NELAP Cert 4046

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_WP**

**CLIENT:** Eurofins  
**Work Order:** N048978  
**Project:** RED HILL

Sample ID: <b>E220121LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8015GAS_WP</b>	Units: <b>mg/L</b>	Prep Date: <b>159750</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>E22WV005</b>	TestNo: <b>EPA 8015B</b>		SeqNo: <b>4509320</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.952	0.050	1.000	0	95.2	69	143				
Surr: Chlorobenzene - d5	61.016		50.00		122	69	130				

Sample ID: <b>E220121MB</b>	SampType: <b>MBLK</b>	TestCode: <b>8015GAS_WP</b>	Units: <b>mg/L</b>	Prep Date: <b>159750</b>							
Client ID: <b>PBW</b>	Batch ID: <b>E22WV005</b>	TestNo: <b>EPA 8015B</b>		SeqNo: <b>4509321</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050	50.00		123	69	130				
Surr: Chlorobenzene - d5	61.455										

Sample ID: <b>N048978-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015GAS_WP</b>	Units: <b>mg/L</b>	Prep Date: <b>159750</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E22WV005</b>	TestNo: <b>EPA 8015B</b>		SeqNo: <b>4509324</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.799	0.050	1.000	0	79.9	49	156				
Surr: Chlorobenzene - d5	57.909		50.00		116	69	130				

Sample ID: <b>N048978-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_WP</b>	Units: <b>mg/L</b>	Prep Date: <b>159750</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E22WV005</b>	TestNo: <b>EPA 8015B</b>		SeqNo: <b>4509325</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.891	0.050	1.000	0	89.1	49	156	0.7990	10.9	20	
Surr: Chlorobenzene - d5	57.119		50.00		114	69	130		0	0	

Sample ID: <b>N049001-010ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>8015GAS_WP</b>	Units: <b>mg/L</b>	Prep Date: <b>159750</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E22WV005</b>	TestNo: <b>EPA 8015B</b>		SeqNo: <b>4509331</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050							0	0	20

**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

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

**ASSET LABORATORIES**  
 "Serving Clients with Passion and Professionalism"

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_WP**

**CLIENT:** Eurofins  
**Work Order:** N048978  
**Project:** RED HILL

Sample ID: **N049001-010ADUP**    Samp Type: **DUP**    TestCode: **8015GAS\_WP**    Units: **mg/L**    Prep Date:    RunNo: **159750**  
 Client ID: **ZZZZZZ**    Batch ID: **E22WV005**    TestNo: **EPA 8015B**    Analysis Date: **1/21/2022**    SeqNo: **4509331**

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d6	55.212	50.00		110	69	130		0	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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# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS\_WU

CLIENT: Eurofins  
 Work Order: N048978  
 Project: RED HILL

Sample ID: E220121LCS	SampType: LCS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 159750
Client ID: LCSW	Batch ID: E22WV005	TestNo: EPA 8015B		SeqNo: 4509335
Analyte	Result	PQL	SPK value	SPK Ref Val
GRO	0.952	0.050	1.000	0
Surr: Chlorobenzene - d5	61.016		50.00	
		%REC	LowLimit	HighLimit
		95.2	69	143
		122	69	130
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: E220121MB	SampType: MBLK	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 159750
Client ID: PBW	Batch ID: E22WV005	TestNo: EPA 8015B		SeqNo: 4509336
Analyte	Result	PQL	SPK value	SPK Ref Val
GRO	ND	0.050	50.00	
Surr: Chlorobenzene - d5	61.455		50.00	
		%REC	LowLimit	HighLimit
		123	69	130
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: N048978-001AMS	SampType: MS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 159750
Client ID: ZZZZZZ	Batch ID: E22WV005	TestNo: EPA 8015B		SeqNo: 4509339
Analyte	Result	PQL	SPK value	SPK Ref Val
GRO	0.799	0.050	1.000	0
Surr: Chlorobenzene - d5	57.909		50.00	
		%REC	LowLimit	HighLimit
		79.9	49	156
		116	69	130
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: N048978-001MSD	SampType: MSD	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 159750
Client ID: ZZZZZZ	Batch ID: E22WV005	TestNo: EPA 8015B		SeqNo: 4509340
Analyte	Result	PQL	SPK value	SPK Ref Val
GRO	0.891	0.050	1.000	0
Surr: Chlorobenzene - d5	57.119		50.00	
		%REC	LowLimit	HighLimit
		89.1	49	156
		114	69	130
		%RPD	RPD Ref Val	RPDLimit
				Qual


Sample ID: N049001-010ADUP	SampType: DUP	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 159750
Client ID: ZZZZZZ	Batch ID: E22WV005	TestNo: EPA 8015B		SeqNo: 4509346
Analyte	Result	PQL	SPK value	SPK Ref Val
GRO	ND	0.050	50.00	
		%REC	LowLimit	HighLimit
		%RPD	RPD Ref Val	RPDLimit
				Qual

**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  
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference


  
 CALIFORNIA P:562.219.7435 F:562.219.7436 NEVADA P:702.307.2659 F:702.307.2691  
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# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS\_WU

**CLIENT:** Eurofins  
**Work Order:** N048978  
**Project:** RED HILL

Sample ID: N049001-010ADUP    Samp Type: DUP    TestCode: 8015GAS\_WU    Units: mg/L    Prep Date:    RunNo: 159750  
 Client ID: ZZZZZZ    Batch ID: E22WV005    TestNo: EPA 8015B    Analysis Date: 1/21/2022    SeqNo: 4509346

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5		55.212	50.00	110	69	130		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	



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Eaton Analytical

# CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

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

### LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: \_\_\_\_\_

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

SAMPLE TEMP RECEIVED AT: ASSET LABS 1.52 10#3

Colton / No. California / Arizona

Monrovia

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

°C (Compliance: 4 ± 2 °C)

°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 # 4921

TO BE COMPLETED BY SAMPLER:

(check for yes)

(check for yes)

(check for yes)

COMPANY/AGENCY NAME: Honolulu Board of Water Supply	PROJECT CODE: RED HILL	COMPLIANCE SAMPLES <input type="checkbox"/> Requires state forms	NON-COMPLIANCE SAMPLES <input checked="" type="checkbox"/>
EEA CLIENT CODE: HONOLULU	SAMPLE GROUP: MW - INTERA Albuquerque +	REGULATION INVOLVED: Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)	

TAT requested: rush by adv notice only: **RUSH**      STD \_\_\_ 1 wk \_\_\_ 3 day \_\_\_ X \_\_\_ 2 day \_\_\_ 1 day

**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 Travel Blank	8015 Gas	SAMPLER COMMENTS
1/19	0930	N048978-01	BWS2253-J1-AQ	RGW					4	Kit# 309750 Provided by EEA
		-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  
 RGW = 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 Gooding	INTERA Incorporated / Senior Hydrogeologis	1/19/22	0930
RECEIVED BY:	<i>[Signature]</i>	Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	1/19/22	1030
RELINQUISHED BY:	<i>[Signature]</i>	Shelli Parilla	ASSET LABS	1/20/22	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: 1/20/2022 Workorder: N048978  
 Rep sample Temp (Deg C): 1.5 IR Gun ID: 3  
 Temp Blank:  Yes  No  
 Carrier name: FedEx  
 Last 4 digits of Tracking No.: 4721 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: GGJ *GGarcia* 1/20/2022

Reviewed By: *ABC* 1/21/2022

**ASSET Laboratories**

**WORK ORDER Summary**

21-Jan-22

**WorkOrder: N048978**

**Client ID:** EUROF01

**Project:** RED HILL

**Comments:** MRL only

**QC Level:** RTNE

**Date Received:** 1/20/2022

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N048978-001A	982106_202201210363_BWS 7553 11 AC	1/19/2022 9:30:00 AM	1/24/2022	Raw Groundwater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N048978-001B			1/24/2022		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/24/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N048978-002A	982106_202201210364_BWS 7553 11 TP		1/24/2022	Bottled Water	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N048978-003A	FOLDER	1/24/2022	1/24/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			1/24/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ORIGIN ID:HNLA (808) 382-6853

INTERA INC  
STE 300W  
8600 GREAT HILLS TRL STE 300W  
AUSTIN, TX 78758  
UNITED STATES US

SHIP DATE: 19JAN22  
ACTWGT: 44.40 LB  
CAD: 6994244/SSFE2220  
DIMS: 23x14x14 IN

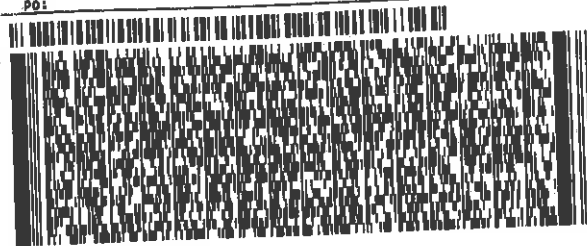
BILL THIRD PARTY

Part # 158297488-881DW3-EXP 09/22

TO **SAMPLE RECEIVING  
ASSET LABORATORIES  
3151 WEST POST RD  
MARLON CARTIN SR PROJ MGR  
LAS VEGAS NV 89118**

(702) 807-2869  
INU:  
PO:

REF: POBMSHI.CO02.REDHILL  
DEPT:



**FedEx**  
Express



AT 1051102201237

TRK# 2889 2313 4721  
0201

**THU - 20 JAN 10:30A  
PRIORITY OVERNIGHT**

**WR LASA**

**89118  
NV-US LAS**

