

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

Date of Issue
05/10/2022

Rinda Seddos
EUROFINS EATON
ANALYTICAL, LLC



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 1001625
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 #: 1001625
 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 **April 27, 2022 at 0945**. 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
202204270701	BWS2253-J1-AQ	04/26/2022 1110
	Variable ID: N050504-01	
	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil
202204270702	BWS2253-J1-TB	04/26/2022 1110
	Variable ID: N050504-02	
	(SUB)Gas Fraction Hydrocarbons	

Test Description



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 RECORD

1001625
b6an042722

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 2-6 2 18#3 **SAMPLES REC'D DAY OF COLLECTION?** (check for yes)

Colton / No. California / Arizona °C (Compliance: 4 ± 2 °C)

Monrovia °C (Compliance: 4 ± 2 °C) *FedEx# 7910*

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

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

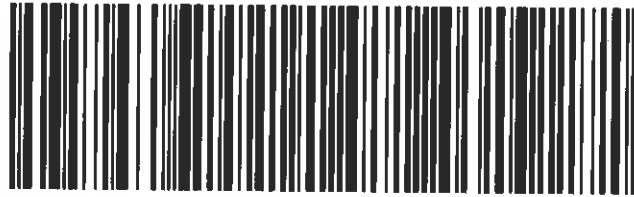
TO BE COMPLETED BY SAMPLER:		PROJECT CODE:	RED HILL			COMPLIANCE SAMPLES	NON-COMPLIANCE SAMPLES	(check for yes)		
COMPANY/AGENCY NAME: Honolulu Board of Water Supply		COC ID:	MW - INTERA Albuquerque +			- Requires state forms	REGULATION INVOLVED:	Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)		
TAT requested: rush by adv notice only: RUSH		EEA CLIENT CODE: HONOLULU	STD	3 day	X	2 day	1 day	SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes) OR		
SAMPLE ID		COC ID	FIELD DATA			LIST ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)				
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	MATRIX *	FIELD DATA	FIELD DATA	TPH 8015 Diesel and Motor Oil	8015 Gas	8015 Gas	SAMPLER COMMENTS	
1/27/22	1100	N050504-01-02	RGW			1	4	2	Kit#313824 Provided by EEA	
			BW							

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

Bill and Report to EEA-Monrovia

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

SAMPLE DATE	SAMPLE TIME	PRINT NAME	COMPANY/TITLE	DATE	TIME
1/27/22	1100	Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	1/26/22	1100
		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	1/26/22	1240
		<i>Siobhán Spauling</i>	ASSET LABS	1/27/22	0945

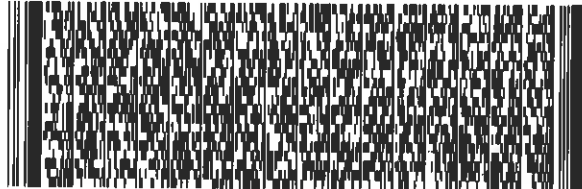


NV-US LAS
89118
AHS

WR LASA

WED - 27 APR 10:30A
PRIORITY OVERNIGHT

TRK# 2724 6063 7910
0201



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE BY A CONTROL NUMBER OR DATE AND TIME IN A FOOTNOTE

DEPT: (702) 307-2658
REF:

LAS VEGAS NV 89118

TO
ATTM: MARLON CARTIN
ASSET LABORATORIES
3151 WEST POST ROAD

Part # 15620/15620/15620/15620/15620/01/23

SHIP DATE: 28APR22
ACTWGT: 46.05 LB
CAD: 6994241/SSFE2300
DIMS: 24x13x13 IN
BILL THIRD PARTY

ORIGIN ID:HNLA (808) 382-6853
KEVIN GOODING
INTERA INC
74 KIHAPAI ST
KAILUA, HI 96734
UNITED STATES US

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

Laboratory Comments

Report: 1001625
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

Folder Comments

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

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

Report: 1001625
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:
04/27/2022 0945

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
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 1 800 566 LABS (1 800 566 5227)

Report: 1001625
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:
 04/27/2022 0945

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<u>BWS2253-J1-AQ (202204270701)</u>						Sampled on 04/26/2022 1110			
Variable ID: N050504-01									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/29/22	04/29/22 12:49			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
04/29/22	04/29/22 17:08			(SW 8015B)	TPH Diesel	ND	ug/L	50	1
04/29/22	04/29/22 17:08			(SW 8015B)	TPH Motor Oil	ND	ug/L	50	1
<u>BWS2253-J1-TB (202204270702)</u>						Sampled on 04/26/2022 1110			
Variable ID: N050504-02									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/29/22	04/29/22 12:18			(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.

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1 800 566 LABS (1 800 566 5227)

Report: 1001625
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:
04/27/2022 0945

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
----------	---------	-----------	--------	-------------	-------	-----

May 02, 2022

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

Workorder No.: N050504

RE: Red Hill

Attention: Debbie Frank

Enclosed are the results for sample(s) received on April 27, 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

"Serving Clients with Passion and Professionalism"

CLIENT: Eurofins
Project: Red Hill
Lab Order: N050504

CASE NARRATIVE

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: N050504
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N050504-001A	1001625_202204270701_B WS2253-J1-AQ	Raw Groundwater	4/26/2022 11:10:00 AM	4/27/2022	5/2/2022
N050504-001B	1001625_202204270701_B WS2253-J1-AQ	Raw Groundwater	4/26/2022 11:10:00 AM	4/27/2022	5/2/2022
N050504-002A	1001625_202204270702_B WS2253-J1-TB	Bottled Water	4/26/2022 11:10:00 AM	4/27/2022	5/2/2022



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 02-May-22

CLIENT: Eurofins	Client Sample ID: 1001625_202204270701_BWS2253-
Lab Order: N050504	Collection Date: 4/26/2022 11:10:00 AM
Project: Red Hill	Matrix: RAW GROUNDWATER
Lab ID: N050504-001	

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_220429A	QC Batch: 92643	PrepDate: 4/29/2022	Analyst: MCC		
Diesel Range Organics (C10-C28)	ND	50	ug/L	1	4/29/2022 05:08 PM
Oil Range Organics (C28-C40)	ND	50	ug/L	1	4/29/2022 05:08 PM
Surr: p-Terphenyl	87.4	33-138	%REC	1	4/29/2022 05:08 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_220429A	QC Batch: E22VW050	PrepDate:	Analyst: CA		
GRO	ND	0.050	mg/L	1	4/29/2022 12:49 PM
Surr: Chlorobenzene - d5	108	69-130	%REC	1	4/29/2022 12:49 PM

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
	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

ANALYTICAL RESULTS

Print Date: 02-May-22

CLIENT: Eurofins
Lab Order: N050504
Project: Red Hill
Lab ID: N050504-002

Client Sample ID: 1001625_202204270702_BWS2253-
Collection Date: 4/26/2022 11:10:00 AM
Matrix: BOTTLED WATER

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

EPA 8015B

RunID: NV00922-GC4_220429A	QC Batch: E22VW050				PrepDate:	Analyst: CA
GRO	ND	0.050		mg/L	1	4/29/2022 12:18 PM
Surr: Chlorobenzene - d5	111	69-130		%REC	1	4/29/2022 12:18 PM

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
	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 SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N050504
Project: Red Hill

TestCode: 8015DM_W_CC

Sample ID: MB-92643	SampType: MBLK	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/29/2022	RunNo: 162011						
Client ID: PBW	Batch ID: 92643	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/29/2022	SeqNo: 4625795						
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	62.146		80.00			77.7	33	138			

Sample ID: LCS-92643	SampType: LCS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/29/2022	RunNo: 162011						
Client ID: LCSW	Batch ID: 92643	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/29/2022	SeqNo: 4625796						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	764.035	50	1000	0	76.4	48	120				
Surr: p-Terphenyl	60.714		80.00		75.9	33	138				

Sample ID: N050504-001A-MS	SampType: MS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/29/2022	RunNo: 162011						
Client ID: ZZZZZZ	Batch ID: 92643	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/29/2022	SeqNo: 4625798						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	686.242	50	1000	0	68.6	48	120				
Surr: p-Terphenyl	59.558		80.00		74.4	33	138				

Sample ID: N050504-001A-MSD	SampType: MSD	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/29/2022	RunNo: 162011						
Client ID: ZZZZZZ	Batch ID: 92643	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/29/2022	SeqNo: 4625799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	648.212	50	1000	0	64.8	48	120	686.2	5.70	20	
Surr: p-Terphenyl	63.486		80.00		79.4	33	138		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
DO	Surrogate Diluted Out		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
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

TestCode: 8015GAS_WP

CLIENT: Eurofins
 Work Order: N050504
 Project: Red Hill

Sample ID: E220429LCS	SampType: LCS	TestCode: 8015GAS_WP	Units: mg/L	Prep Date: 161999							
Client ID: LCSW	Batch ID: E22VW050	TestNo: EPA 8015B		SeqNo: 4625109							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.133	0.050	1.000	0	113	69	143				
Surr: Chlorobenzene - d5	45.797		50.00		91.6	69	130				

Sample ID: E220429MB	SampType: MBLK	TestCode: 8015GAS_WP	Units: mg/L	Prep Date: 161999							
Client ID: PBW	Batch ID: E22VW050	TestNo: EPA 8015B		SeqNo: 4625110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050	50.00		84.0	69	130				
Surr: Chlorobenzene - d5	42.003										

Sample ID: N050504-001BMS	SampType: MS	TestCode: 8015GAS_WP	Units: mg/L	Prep Date: 161999							
Client ID: ZZZZZZ	Batch ID: E22VW050	TestNo: EPA 8015B		SeqNo: 4625113							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.084	0.050	1.000	0	108	49	156				
Surr: Chlorobenzene - d5	46.342		50.00		92.7	69	130				

Sample ID: N050504-001BMSD	SampType: MSD	TestCode: 8015GAS_WP	Units: mg/L	Prep Date: 161999							
Client ID: ZZZZZZ	Batch ID: E22VW050	TestNo: EPA 8015B		SeqNo: 4625114							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.097	0.050	1.000	0	110	49	156	1.084	1.19	20	
Surr: Chlorobenzene - d5	50.349		50.00		101	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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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WU

CLIENT: Eurofins
 Work Order: N050504
 Project: Red Hill

Sample ID: E220429LCS	SampType: LCS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 161999	RunNo: 161999						
Client ID: LCSW	Batch ID: E22VW050	TestNo: EPA 8015B		Analysis Date: 4/29/2022	SeqNo: 4625116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.133	0.050	1.000	0	113	69	143				
Surr: Chlorobenzene - d5	45.797		50.00		91.6	69	130				

Sample ID: E220429MB	SampType: MBLK	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 161999	RunNo: 161999						
Client ID: PBW	Batch ID: E22VW050	TestNo: EPA 8015B		Analysis Date: 4/29/2022	SeqNo: 4625117						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050	50.00		84.0	69	130				
Surr: Chlorobenzene - d5	42.003										

Sample ID: N050504-001BMS	SampType: MS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 161999	RunNo: 161999						
Client ID: ZZZZZZ	Batch ID: E22VW050	TestNo: EPA 8015B		Analysis Date: 4/29/2022	SeqNo: 4625120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.084	0.050	1.000	0	108	49	156				
Surr: Chlorobenzene - d5	46.342		50.00		92.7	69	130				

Sample ID: N050504-001BMSD	SampType: MSD	TestCode: 8015GAS_WU	Units: mg/L	Prep Date: 161999	RunNo: 161999						
Client ID: ZZZZZZ	Batch ID: E22VW050	TestNo: EPA 8015B		Analysis Date: 4/29/2022	SeqNo: 4625121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.097	0.050	1.000	0	110	49	156	1.084	1.19	20	
Surr: Chlorobenzene - d5	50.349		50.00		101	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

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 RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ **SAMPLES CHECKED AGAINST COC BY:** _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 2-6 2 10#3 **SAMPLES LOGGED IN BY:** _____

Colton / No. California / Arizona °C (Compliance: 4 ± 2 °C) **SAMPLES REC'D DAY OF COLLECTION?** (check for yes)

Monrovia °C (Compliance: 4 ± 2 °C) *FedEx# 7910*

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Partially Frozen _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Honolulu Board of Water Supply		PROJECT CODE: RED HILL		COMPLIANCE SAMPLES <input type="checkbox"/> NON-COMPLIANCE SAMPLES <input checked="" type="checkbox"/>	
EEA CLIENT CODE: HONOLULU		SAMPLE GROUP: MW - INTERA Albuquerque +		- Requires state forms <input type="checkbox"/> REGULATION INVOLVED: _____ (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 <input checked="" type="checkbox"/> (check for yes), OR	
SAMPLE DATE	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	SAMPLER COMMENTS
7/15	N050504-01	BWS2253-J1-AQ	RGW	8015 Gas 4	Kit# 313824
	-02	BWS2253-J1-TB	BW	8015 Gas Travel Blank 2	Provided by EEA
				TPH 8015 Diesel and Motor Oil 4	

SHIP TO: Asset Laboratories
3151 West Post Road
Las Vegas NV 89118
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 WW = Waste Water BW = Bottled Water SW = Storm Water SO = Soil SL = Sludge

SAMPLED BY: <i>[Signature]</i>	PRINT NAME: Kevin Gooding	COMPANY/TITLE: INTERA Incorporated / Senior Hydrogeologis	DATE: 4/26/22	TIME: 1110
RELINQUISHED BY: <i>[Signature]</i>	Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	4/26/22	1240
RECEIVED BY: <i>[Signature]</i>	<i>[Signature]</i>	ASSET LABS	4/27/22	0945
RELINQUISHED BY:				
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: 4/27/2022 Workorder: N050504
 Rep sample Temp (Deg C): 2.6 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 7910 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?
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?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments: Sample 2: Same collection date and time of the associated field sample (sample 1).

Checklist Completed By: GGJ *GGarcia* 4/27/2022

Reviewed By:  4/28/2022

ASSET Laboratories

WORK ORDER Summary

28-Apr-22

WorkOrder: N050504

Client ID: EUROF01

Project: Red Hill

Comments: MRLonly

QC Level: RTNE

Date Received: 4/27/2022

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N050504-001A	1001625_202204270701_BW S0753 11 AC	4/26/2022 11:10:00 AM	4/29/2022	Raw Groundwater	EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N050504-001B			4/29/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			4/29/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050504-002A	1001625_202204270702_BW S0753 11 TB		4/29/2022	Bottled Water	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050504-003A	FOLDER	4/29/2022	4/29/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			4/29/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

