

ACCREDITED

CERTIFICATE #'s \$890.01 & \$890.02

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
06/01/2022

Level Lank
EUROFINS & ATON
ANALYTICAL, LLC

Report: 998879
Project: RED-HILL

Group: Weekly TPH-8015_RED-HILL (2022) - EMAX

DEB: Debbie L Frank
Project Manager

- * 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.

Utah ELCP CA00006



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
ldaho	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) Water				WWW.Eui
Enterococi	Tost(s)	Method(s)	Potable	Waste
Escherichia coli	Test(s)	wethou(s)	Water *	Water
Escherichia coli	Enterococci	Enterolert	Y	Y
CEnumeration				
Fecal Coliform (P/A and Enumeration)			X	
Renumeration	,			
Entimeration		(MTF/FC) SM 9221	v	v
Enterococci	Enumeration)	E (MTF/EC)	^	^
Enterococci	Fecal Streptococci and			
Heterotrophic Bacteria		SM 9230 B	X	X
Legionella		OM 0045 D		
Desire				
Pseudomonas aeruginosa	Legionella	Legiolert®	X	
Total Coliform (P/A and Enumeration)		Idexx		
Total Coliform (P/A and Enumeration)	Pseudomonas aeruginosa	Pseudalert	X	
Enumeration S2218, SM 9221 C	Total Caliform (D/A and			
Total Coliform, Total Coliform with Chlorine Present	· · · · · · · · · · · · · · · · · · ·		х	х
Coliform with Chlorine Present Present		9221B, SM 9221 C		
Coliform with Chlorine Present Present	Total Coliform, Total			
Present	Coliform with Chlorine	01100015	х	х
Total Coliforn/E. coli (P/A and Enumeration, Ideax Colient, Idea		SM 9221 B		
Enumeration, Idexx Colliert, Idexx Colliert 18, Collier				
Idex		CM 0222	v	
Total Microcystins and Nodularins SM 9610 X		31VI 9223	^	
Nodularins				
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 Alkalinity SM 2320B x Alkalinity SM 2320B x Ammonia SM 4500-NH3 x Ammonia SM 4500-NH3 x Absestos EPA 350.1, x Asbestos EPA 100.2 x x Bicarbonate Alkalinity as HCO3 SM 2330 B x x Bicarbonate Alkalinity as HCO3 SM 2330 B x x Bromate *LCMS-2447 x x Carbonate as CO3 SM 2330 B x x Carbonate as CO3 SM 2330 B x x Chlorine Dioxide EPA 410.4, SM 5220D x x Chlorine Free, Combined, Total Residual, Chloramines SM 4500-CLO2 x Chlorine, Free, Combined, Total Residual, Chloramines		EPA 546	Χ	
1,2,3-Trichloropropane		011.0010		
TCP	Yeast and Mold	SM 9610	X	
TCP				
CICP) at 5 PP1		CA SRL 524M-	v	
Acrylamide	(TCP) at 5 PPT	TCP	^	
Acrylamide			Х	
Acrylamide	1,1 Dioxano		^	
Acrylamide	2,3,7,8-TCDD		X	
Algal Toxins/Microcystin	_,=,-,-	1613 B		
Alkalinity	Acrylamide	+LCMS 2440)	X	
Alkalinity	Algal Toxins/Microcystin	+ LCMS 3570	X	
Ammonia				V
Ammonia	Alkallility		^	^
H				
Asbestos	Ammonia	SM 4500-NH3		Х
Bicarbonate Alkalinity as		H		
Bicarbonate Alkalinity as	Ashestos	FPA 100 2	Y	Y
HCO3			^	^
BOD/CBOD	-	SIVI 2330 B	X	x
Bromate				
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 Palin Test Chlordio X Plus, SM 4500-CLO2 D x Chlorine, Free, Combined, Total Residual, Chloramines SM 4500-CL G x Conductivity EPA 120.1, SM 2510B x Conductivity EPA 120.1, SM 2510B x Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated SM 2330 B x Cyanide (Amenable) SM 4500-CN G x x Cyanide (Total) EPA 335.4 x x Cyanogen Chloride (Screen) (WC-24467) x x Diquat and Paraquat EPA 549.2 x x DBP and HAA SM 6251 B x Dissolved Organic Carbon Dissolved Oxygen SM 4500-O G x EDB/DCBP/TCP EPA 504.1 x EDB/DBP/TCP EPA 548.1, *(LCMS-24445) x EDTA and NTA *WC-2454 x <t< td=""><td>BOD/CBOD</td><td>SM 5210 B</td><td></td><td>X</td></t<>	BOD/CBOD	SM 5210 B		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 Palin Test Chlordio X Plus, SM 4500-CLO2 D x Chlorine, Free, Combined, Total Residual, Chloramines SM 4500-CL G x Conductivity EPA 120.1, SM 2510B x Conductivity EPA 120.1, SM 2510B x Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated SM 2330 B x Cyanide (Amenable) SM 4500-CN G x x Cyanide (Total) EPA 335.4 x x Cyanogen Chloride (Screen) (WC-24467) x x Diquat and Paraquat EPA 549.2 x x DBP and HAA SM 6251 B x Dissolved Organic Carbon Dissolved Oxygen SM 4500-O G x EDB/DCBP/TCP EPA 504.1 x EDB/DBP/TCP EPA 548.1, *(LCMS-24445) x EDTA and NTA *WC-2454 x <t< td=""><td>Bromate</td><td>+LCMS- 2447</td><td>X</td><td></td></t<>	Bromate	+LCMS- 2447	X	
Carbonyls EPA 556 x x Chemical Oxygen Demand EPA 410.4, SM 5220D x Chlorinated Acids EPA 515.4 x Palin Test Chlordio X Plus, SM 4500-CLO2 D x Chlorine, Free, Combined, Total Residual, Chloramines SM 4500-CL G x Corductivity EPA 120.1, SM 2510B x Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated SM 2330 B x Cyanide (Amenable) SM 4500-CN G x x Cyanide (Total) EPA 335.4 x x Cyanogen Chloride (Screen) (WC-24467) x x Diquat and Paraquat EPA 549.2 x x Dissolved Organic Carbon Dissolved Oxygen SM 4500-C G x x EDB/DCBP/TCP EPA 549.2 x x EDB/DCBP/TCP EPA 549.2 x x EDB/DCBP/TCP EPA 549.1 x x EDB/DCBP/TCP EPA 504.1 x x EDB/DCBP/TCP EPA 551.1 x x EDTA and NT				
Chemical Oxygen Demand Chlorinated Acids Chlorinated Acids EPA 515.4 Palin Test Chloridio X Plus, SM 4500-CLO2 D Chlorine, Free, Combined, Total Residual, Chloramines Color SM2120B Conductivity SM 2510B Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated Cyanide (Amenable) Cyanide (Free) SM 4500-CN G Cyanide (Total) Cyanogen Chloride (Screen) Cyacreen) Cyacreen Diquat and Paraquat Dissolved Organic Carbon Dissolved Oxygen EDB/DCBP/TCP EDB/DBCP and Disinfection Byproducts EPA 547 EIndoride SM 4500-C SM 2330 B X X X X X X X X X X X X X X X X X X X				
Chlorinated Acids Chlorine Dioxide Chlorine, Free, Combined, Total Residual, Chloramines Color Conductivity Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated Cyanide (Free) Cyanide (Total) Cyanogen Chloride (Screen) Diguat and Paraquat Dissolved Organic Carbon Dissolved Organic Carbon Dissolved Organic Carbon Dissolved Organic Carbon Disinfection Byproducts EPA 5481, *(LCMS-24445) EPA 5487, *(LCMS-2445) EPA 5487, *(LCMS-2648) EPA 5487, *(LCMS-2618) EPA 5487, *(LCMS-3618) EPA 5487, *	Carbonyis		Х	X
Chlorinated Acids	Chamical Owigan Damand	EPA 410.4,		v
Chlorinated Acids EPA 515.4 Palin Test Chlorine Dioxide Chlorine, Free, Combined, Total Residual, Chloramines Color SM 4500-CLO2 D Conductivity EPA 120.1, SM 2510B Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated Cyanide (Amenable) Cyanide (Free) SM 4500-CN G X X X X X X X X X X X X X	Chemical Oxygen Demand	SM 5220D		X
Palin Test Chlorine Dioxide	Chlorinated Acids		Y	
Chlorine Dioxide 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 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 4500-CN G X X Cyanide (Total) EPA 335.4 X X Cyanogen Chloride (Screen) (WC-24467) X X Diquat and Paraquat EPA 549.2 X X Dissolved Organic Carbon Dissolved Organic Carbon SM 5310 C X X Dissolved Oxygen EDB/DCBP/TCP EPA 504.1 X X EDB/DBP/TCP EPA 551.1 X EPA 551.1 X EDTA and NTA * WC-2454 X X EPA 548.1, *(LCMS-2445) X X Fluoride SM 4500F C X X X Glyphosate and AMPA * LCMS-3618 X	Onionnatod / toldo		Α	
Chilorine Dioxide				
SM 4500-CLO2	Chlorine Diovide		Y	
Chlorine, Free, Combined, Total Residual, Chloramines SM 4500-CI G x Color SM2120B x Conductivity EPA 120.1, SM 2510B 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 4500-CN G x x Cyanide (Total) EPA 335.4 x x Cyanogen Chloride (Screen) (WC-24467) x x Diquat and Paraquat EPA 549.2 x x x Dissolved Organic Carbon Dissolved Organic Carbon SM 5310 C x x Dissolved Oxygen EDB/DCBP/TCP EPA 504.1 x x EDB/DCBP/TCP EPA 551.1 x x EDTA and NTA * WC-2454 x EPA 548.1, *(LCMS-2445) x x Fluoride Silphosate EPA 547 x x Glyphosate and AMPA * LCMS-3618 x	Chlorine Dioxide	SM 4500-CLO2	^	
Total Residual, Chloramines		D		
Total Residual, Chloramines	Chlorine Free Combined	_		
Chloramines 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 x Cyanide (Amenable) SM 4500-CN G SW XW		SM 4500-CI G		
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 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) (WC-24467) x x Diquat and Paraquat EPA 549.2 x x DBP and HAA SM 6251 B x x Dissolved Organic Carbon SM 5310 C x x Dissolved Oxygen SM 4500-O G x x EDB/DCBP/TCP EPA 504.1 x EPA 551.1 x EDTA and NTA * WC-2454 x EPA 548.1, * * *(LCMS-24445) x x x Fluoride SM 4500F C x x			Х	
Conductivity EPA 120.1, SM 2510B x x Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated SM 2330 B x x Cyanide (Amenable) SM 4500-CN G x x x Cyanide (Free) SM 4500CN F x x x Cyanide (Total) EPA 335.4 x x x Cyanogen Chloride † 335 Mod (WC-24467) x x x x Diquat and Paraquat EPA 549.2 x	Chloramines			
Conductivity EPA 120.1, SM 2510B x x Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated SM 2330 B x x Cyanide (Amenable) SM 4500-CN G x x x Cyanide (Free) SM 4500CN F x x x Cyanide (Total) EPA 335.4 x x x Cyanogen Chloride † 335 Mod (WC-24467) x x x x Diquat and Paraquat EPA 549.2 x	Color	SM2120B	X	
Contactivity				
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	Conductivity		X	Х
Index), Carbonate as CO3, Hydroxide as OH Calculated		31VI 23 10D		
Hydroxide as OH Calculated SM 2330 B X				
Calculated Calculated Calculated Cyanide (Amenable) G		SM 2330 B	v	
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/DBP/TCP EPA 551.1 X EDTA and NTA + WC-2454 X EPA 548.1, +(LCMS-2445) X Fluoride SM 4500F C X X Glyphosate EPA 547 X Glyphosate and AMPA + LCMS-3618 X	Hydroxide as OH	OW 2000 D	^	
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/DBP/TCP EPA 551.1 X EDTA and NTA + WC-2454 X EPA 548.1, +(LCMS-2445) X Fluoride SM 4500F C X X Glyphosate EPA 547 X Glyphosate and AMPA + LCMS-3618 X				
Cyanide (Amenable) 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 4500-0 G X EDB/DCBP/TCP EPA 504.1 X EDB/DBP/TCP and Disinfection Byproducts EPA 551.1 X EDTA and NTA * WC-2454 X EPA 548.1, *(LCMS-2445) X Fluoride SM 4500F C X X Glyphosate EPA 547 X Glyphosate and AMPA * LCMS-3618 X	Carouratou	CM 4500 CN		
Cyanide (Free) SM 4500CN F X X Cyanide (Total) EPA 335.4 X X Cyanogen Chloride +335 Mod (Screen) (WC-24467) X Diquat and Paraquat EPA 549.2 X DBP and HAA SM 6251 B X Dissolved Organic Carbon SM 5310 C X EDB/DCBP/TCP EPA 504.1 X EDB/DBCP and Disinfection Byproducts EDTA and NTA +WC-2454 X Endothall EPA 548.1, *(LCMS-2445) X Fluoride SM 4500F C X X Glyphosate and AMPA +LCMS-3618 X	Cyanide (Amenable)		X	Х
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 EPA 548.1, *(LCMS-2445) x Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA + LCMS-3618 x	· · · · · · · · · · · · · · · · · · ·			
Cyanide (Total) EPA 335.4 x x Cyanogen Chloride (Screen) + 335 Mod (WC-24467) x x Diquat and Paraquat EPA 549.2 x x DBP and HAA SM 6251 B x x Dissolved Organic Carbon SM 5310 C x x Dissolved Oxygen SM 4500-O G x x EDB/DCBP/TCP EPA 504.1 x EPA 551.1 x EDTA and NTA + WC-2454 x EPA 548.1, +(LCMS-2445) x Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA + LCMS-3618 x	Cyanide (Free)	SM 4500CN F	X	Х
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 EPA 548.1, *(LCMS-2445) x Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA + LCMS-3618 x	Cyanide (Total)			
(Screen) (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 EPA 548.1, †(LCMS-2445) x Fluoride SM 4500F C x Glyphosate EPA 547 x Glyphosate and AMPA † LCMS-3618 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			X	
DBP and HAA SM 6251 B X Dissolved Organic Carbon SM 5310 C X Dissolved Oxygen SM 4500-0 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-24445) X Fluoride SM 4500F C X X Glyphosate EPA 547 X Glyphosate and AMPA * LCMS-3618 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-24445) x Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA * LCMS-3618 x			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-24445) x Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA * LCMS-3618 x	DBP and HAA	SM 6251 B	Х	
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				
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			^	V
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				X
Disinfection Byproducts EPA 581.1 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		EPA 504.1	X	
Disinfection Byproducts EPA 581.1 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	EDB/DBCP and	EDA FE4 4		7
EDTA and NTA † WC-2454 x Endothall EPA 548.1, †(LCMS-24445) x Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA * LCMS-3618 x		EPA 551.1	X	
Endothall EPA 548.1,		+ \\\\C 2454	V	
+(LCMS-2445)	LDTA dIU NTA		Α	
Tluoride	Endothall		¥	
Glyphosate EPA 547 x Glyphosate and AMPA +LCMS-3618 x	Endotriali	+(LCMS-2445)	^	
Glyphosate EPA 547 x Glyphosate and AMPA +LCMS-3618 x	Fluoride	SM 4500F C	X	Х
Glyphosate and AMPA + LCMS-3618 x				
Gross Alpha and Gross Beta EPA 900.0 x x				
	Gross Alpha and Gross Beta	EPA 900.0	X	X

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

^(*) 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 #: 998879 Project: RED-HILL

Sample Group: Weekly TPH-8015_RED-HILL (2022)

- EMAX

Project Manager: Debbie L Frank Phone: (626) 386-1149

PO #: C20525101 exp 05312023

The following samples were received from you on **April 13, 2022** at **1500**. 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
202204130730	MOANALUA WELLS (331-223-T	P202)	04/12/2022 0900
	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil	
202204130731	Travel Blank		04/12/2022 0900
	(SUB)Gas Fraction Hydrocarbons		
202204130732	RUSH		04/12/2022 0900
	RUSH		

Test Description

Reported: 06/01/2022

😍 eurofins

CHAIN OF CUSTODY RECORD

		Faton Analytical	Icoityler)		5		SOCIODI NECONE	.		
				EUROFINS EATON ANALYTICAL USE ONLY:	YTICAL U	SE ONL	نذ					
750 Mon	Royal C	750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629		LOGIN COMMENTS:					SAMPLES CH	SAMPLES 1	SAMPLES CHECKED AGAINST COC BY:	505
Phor	ne: 626	Phone: 626 386 1100		SAMPLE TEMP RECEIVED AT: Colton / No. California / Arizona	/ED AT:	la et	ů	C Compliance 4+2°C		REC'D DAY OF		(check for yes)
800	566 LA	800 566 LABS (800 566 5227)		Monrovia	! !		°°	°C (Compliance: 4±2°C)				
				METHOD OF SHIPMENT: Pick-Up	MENT:	Frozen_ Pick-Up	/ Walk-In (Partially Frozen	METHOD OF SHIPMENT: Pick-Up / Walk-In (FedEx UPS / DHL / Area Fast / Top Line / Other:	Wet Ice	No Ice	
TO BE C	OMPLET	TO BE COMPLETED BY SAMPLER:							(check for ves)			- Chock for you
COMPA	NY/AGE	COMPANY/AGENCY NAME:		PROJECT CODE:			-	COMPLIAN	COMPLIANCE SAMPLES		NON-COMPLIANCE SAMPLES	× (des)
		BWS HONOLULU		Red	Red Hill		Type	- Requires statements of samples (circle one):	Requires state forms RollTine Rectal	REGULATIC	REGULATION INVOLVED:	
EEA CL	EEA CLIENT CODE:	ODE: COC ID:	Ö	SAMPLE GROUP:			SEE	ATTACHED L	E ORDER	RANALYSE	NALYSES (check for yes), OR	es), <u>OR</u>
1	P .	Honolulu					+	ANALYSES RE	list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	of bottles ser	nt for each test for e	ach sample)
IAI red	uested:	IAT requested: rush by adv notice only		STD 1 wk _X_ 3 day _	2 day .	1 day	1	0				
SAMPLE 3TAG	SAMPLE 3MIT	SAMPLEID		CLIENT LAB ID	• XIЯТАМ	ATAO OJEN	атаа алэгя 2108 НЧТ	8015 Gas_			SA	SAMPLER COMMENTS
4-12-22	2000	MOANALUA WELLS	ELLS	HI0000331-223	CFW		×	×				
		Travel Blank	¥		CFW			×				
		Temperature Blank	lank								Temp Blank:	ınk: O.S. °C
* MAT	* MATRIX TYPES:	PES: RSW = Raw Surface Water RGW = Raw Ground Water	ırface Water round Water	CFW = Chlor(am)inated Finished Water FW = Other Finished Water	ed Finist Water	ned Wate		SEAW = Sea Water WW = Waste Water	BW = Bottled Water SW = Storm Water	sr SO = Soil SL = Sludge	- ag	O = Other - Please Identify
SAME		SIGNATURE				PRINT NAME	Ē		COMPANY/TITLE		DATE	TIME
DELINOLISHED BY:	DT.				۵	Derek Dotson	son		Honolulu Board of Water Supply	Supply	4-12-2022	
DECEMBER DX	SHED BY.				۵	Derek Dotson	son		Honolulu Board of Water Supply	Supply	4-12-222	1200
RELINQUISHED BY:	SHED BY:		N T	9	PEITNER	NER			EE EE		220251.40	15:00
	BY:											
Page							love love				PAGE	1 OF 1

5 of 43 pages

	-
10	ns
	50
	GI
	10 m

INTERNAL CHAIN OF CUSTODY RECORD

Eaton Analytical	5400
	EEA Folder Number:

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

No	
Yes/	
COLLECTION?	
DAY OF	
REC'D	
SAMPLES	

	N/A	
	Thawed	
16 °C) (Corr.Factor -0.3 °C) (Final = 1.3 °C)	CONDITION OF ICE: Frozen Partially Frozen	· Pickally / Walk-in (FedEx V UPS / DHI / Area Fast / Too Line / Other:
IR Gun ID = 649 (Observation= 1.6.	TYPE OF ICE: Real Synthetic No Ice	METHOD OF SHIPMENT: Pick-119 / Walk-In (Fedex)

Compliance Acceptance Criteria:

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

freceived after 2, hours of sample collection)	1 = (Obsarvation= 'C) (Corr.Factor 'C) (Final =
3) Microbiology, Surface Water: < 10°C (if received after 2,hours of sample collection)	If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the

=uc	*C) (Corr.Facior	corr.Factor "C) (Final =	(0.	Z = (Observation	1= 'C) (Corr.Factor 'C	*C) (Final =	ξ <u>.</u>
900	*C) (Corr.Factor *C) (Final =	*C) (Final =	7 (0.	= (Observi	sllon" (Corr.Factor C) (Fina	*C) (Final =	(C)

2
0
芸
9
\equiv
S
Θ
a
E
ω
S
0
S
Z
4
r 24 hrs
0
#
afte
f received
8
æ
Ö
rece
4
\sim
0
N
2
=
0
-
Ö
ပွဲ
4°C,
0-4°C,
n 0-4 °C, 1
een 0-4 °C, 1
ween 0-4 °C, 1
etween 0-4 °C, 1
between 0-4 °C, I
e between 0-4 °C, 1
be between 0-4 °C, I
st be between 0-4 °C, I
ust be between 0-4 °C, I
must be between 0-4 °C, I
): must be between 0-4 °C, I
D): must be between 0-4 °C, I
:DD): must be between 0-4 °C, I
CDD): must be between 0-4 °C, I
TCDD): must be between 0-4 °C, I
,8 TCDD): must be between 0-4 °C, 1
,7,8 TCDD): must be between 0-4 °C, 1
,3,7,8 TCDD): must be between 0-4 °C, 1
2,3,7,8 TCDD): must be between 0-4 °C, 1
or 2,3,7,8 TCDD): must be between 0-4 °C, 1
3 or 2,3,7,8 TCDD): must be between 0-4 °C, 1
13 or 2,3,7,8 TCDD): must be between 0-4 °C, 1
613 or 2,3,7,8 TCDD): must be between 0-4 °C, 1
(1613 or 2,3,7,8 TCDD): must be between 0-4 °C, 1
n (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, 1
xin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, 1
oxin (1613 or 2,3,7,8
Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, 1

Results:			~6mm
Re		al clients:	ttle # None/
Expiration Date		ow): bottles)	Samp ID Bottle # Mona/<8
X X		see bel Itional s using 40	Test
	Its	Samples with Headspace (see below): adon Internal COFC for additional bottle s, 558, 538, Anatoxin, LCMS methods using 40 ml Ma	Samp ID Bottle # None/<6 >6mm
ا ة	Results	h Head COFC xln, LCM	None/<
0 - 14		les wit iternal 86, Anato	Bottle #
_pH strip type: 0 - 14 or	Expiration Date:	Samp and Radon Ir	Samp ID
	Expir	ial VOC	Test
Lot Number:	safe. Lot No.:	A and Radon No Samples with Headspace: Idspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 515.4, HAA(6261,562), 505, SPME, @CH, 532LCMS, 556, 536, Antoxin, LCMS methods using 40 mi Mals, International clients:	Samp ID Bottle # None/<6 >6mm Test
cturer:	Manufacturer: Sar	No Samp Headspace Docu	Test Sa
5) pH Check. Manufacturer:	6) Chlorine check. Manufacturer: Sansafe. Lot No.:	VOA and Radon 7) Headspace: Exempt from headspa	Samp ID Bottle # None/<8 >6mm Test

			COMPANYITTL	
		dspace (i.e. potential sampling errors):	PRINT NAME	
		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	SIGNATURE	The state of the s

TLE DATE TIME	Analytical 04-13-20-72 15:00	TLE DATE TIME	vnalytical	
PRINT NAME	Eurofins Eaton Analytical	PRINT NAME COMPANY/TITLE	Eurofins Eaton Analytical	
SIGNATURE	RECEIVED BY:	SIGNATUŘE	SAMPLES CHECKED AGAINST COC BY:	

ECORD	line whether to proceed with analysis or not.		Thawed N/A			ction, within 8 hours)		C) (Corr.Factor 'C) (Final = 'C)	*C) (Corr.Factor *C) (Final = *C)	(-	Expiration DateResults:		e below): onal bottles)	Test Samp ID Bottle # None/<6 >6mm Test			DATE TIME	04.132022 15:00	DATE TIME	
INTERNAL CHAIN OF CUSTODY RECORD	SAMPLE TEMP RECEIVED: Note: if samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No	°C) (Corr.Factor ~ 0.3 °C) (Final = 1.2 °C)	ICE: Frozen Partially Frozen_	ast / Top Line / Other:	ple collection)	on ice the same day as sample colle	collection)		*C) (Final =	e between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	oe: 0 - 14	Expiration Date: Results	No Samples with Headspace: No Samples with Headspace (see below): Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)	Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, QCH, 53ZLCM3, 330, AllatoXIII, LONG Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Mm Test			COMPANYITLE	Eurofins Eaton Analytical	COMPANYITILE	Eurofins Eaton Analytical
INTERNAL CHA	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, I SAMPLES REC'D DAY OF CO	(Observation= 1.5 °C) (Corr.Factor -0.	No los CONDITION OF ICE: Frozen	In (FedEx / UPS / DHL / Area Fast / Top Line / Other.	AP) (if received after 24 hrs of sam	not frozen (can be ≥10°C if received	C (if received after 2, hours of sample collection)	1 = (Observation= C) (Corr.Fector	3 = (Observation= °C) (Corr.Faetor	be between 0-4 °C, not frozen (if rec	Jumber:	-	No Samples with Headspace:	ods 515.4, HAA(6251,552), 505, SPME, @CH, b. amp ID Bottle # None/<6 >6mm Test		space (i.e. potential sampling errors)	PRINT NAME	(3. RETWER	PRINT NAME	
eurofins	EEA Folder Number: 998879	IR Gun ID = 649A (Observal	nthe	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria:	2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	3) Microbiology, Surface Water: < 10°C	If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the	dupprialitie of sech questions and record sech tomporement.	4 Dioxin (1613 or 2,3,7,8 TCDD): must b	5) pH Check. Manufacturer:	6) Chlorine check, Manufacturer: Sansafe, Lot No.:	VOA and Radon No Sam 7) Headspace: Headspace Doc	Exempt from headspace concerns: Metho Samp ID Bottle # Nonel-6 >6mm Test S		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	# ALL PANCES	RECEIVED BY:	SIGNATURE	SAMPLES CHECKED AGAINST COC BY:

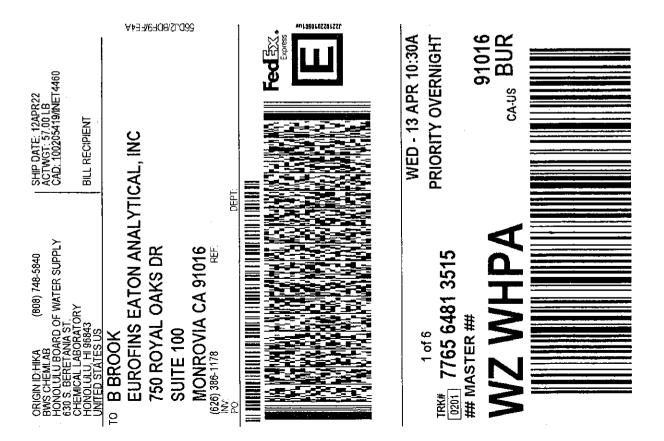
್ಯಿಸ್ eurofins	INTERNAL CHAIN OF CUSTODY RECORD	OF CUSTODY	RECORD	
EEA Folder Number: 948879		SAMPLE TEMP RECEIVED: Note: if samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysts or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No	itermine whether to proceed with an	alysis or not.
IR Gun ID = 649A (Obser	(Observation= 6.2 °C) (Corr.Factor -0.3 °	°C) (Final = 5.9 °C)	\	
TYPE OF ICE: Real Synthetic	No Ice CONDITION OF ICE:	Frozen Partially Frozen	zen Thawed	NA
METHOD OF SHIPMENT: Pick-Up / Walk-In	ilk-In (FedEx) UPS / DHL / Area Fast / Top Line / Other:	Top Line / Other:		
Compliance Acceptance Criteria:	o plamps to and 1/2 rotto positioner #1/ (DA 1914)	(no)toell		
2) Microbiology, Distribution: < 10	1) Chemistry: 70, 20 C, not nozen (Nation) (in produced and Ethins of complete confection, within 8 hours).	the same day as sample or	llection, within 8 hours)	
3) Microbiology, Surface Water: < 1	e Water: < 10°C (if received after 2 hours of sample collection)	stlon)		e.
If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the	3y (Corr,Factor) (C) (Corr,Factor)	.c) (Final =C) 2 = (Observation=	*C) (Corr.Factor *C) (Final =	(5,
lemperature of each quadrent and record each lemperature of the quadrents	the 3 = (Observation* C) (Corr.Fastor		"C) (Corr.Factor "C) (Final =	(2.
4 Dioxin (1613 or 2,3,7,8 TCDD): m	, not frozen (if receiv	after 24 hrs of sample collec	:tlon)	
5) pH Check, Manufacturer:	Lot Number:pH strip	pH strip type: 0 - 14 or	Expiration Date	Res
6) Chlorine check, Manufacturer: Sansafe. Lot No.:	Sansafe. Lot No.: Expiration Date:	e: Results		55
VOA and Radon Nó Sa 7) Headspace:	No Samples with Headspace: Samples with Headspace (see below):	Samples with Headspace (see below):	see below):	
m headspac	Teadspace Documentation (1956 and included and included and international clients: Methods 515.4, HAA(8251,522), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: Non-Test Samp ID Bottle # Non-Test Samp	, 556, 536, Anatoxin, LCMS method Samp ID Bottle # None/<6 >6mm	s using 40 ml vials, Internation	lonal clients: Bottle # None/<
Note Sample IDs which have dissimilar he	dissimilar headspace (i.e. potential sampling errors):	-		
	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	G. PECTIVER	Eurofins Eaton Analytical	04-13-2022	00:51
SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLES CHECKED AGAINST COC BY:		Eurofins Eaton Analytical		

euronns	INTERNAL CHAIN OF CUSTODY RECORD	OF CUSTODY	RECORD	
EEA Folder Number: 998874	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, SAMPLES REC'D DAY OF G	SAMPLE TEMP RECEIVED: Note: if samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysts or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No	termine whether to proceed with a	nalysis or not.
IR Gun ID = 649A (Observation= 6.0)	6.0 °C) (Corr.Factor 0.3 °C) (Final =	(Final = 5.7 °C)		
nthe	CONDITION OF ICE:	Frozen Partially Frozen	zen Thawed	N/A
METHOD OF SHIPMENT: Pick-Up / Walk-In Fedex	FedEx VPS / DHL / Area Fast / Top Line / Other:	op Line / Other:		
Compliance Acceptance Criteria: 1) Chemistry: >0, s 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	(if received after 24 hrs of sample colle	ection)		
2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	rozen (can be ≥10°C if received on ice	the same day as sample co	illection, within 8 hours	,
3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	eceived after 2, hours of sample collecti	ion)		
If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the	= (Observation=C) (Corr.Factor *C) Final =	1	*C) (Corr.Factor *C) (Final *	(0,
temperature of each quadrant and record each temperature of the quadrants	3 = (Observation= °C) (Corr.Factor °C) (Final =	al = *C) 4 = (Observation=	*C) (Corr.Factor *C) (Final =	(5. =
4 Dioxin (1613 or 2,3,7,8 TCDD): must be be	8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	ifter 24 hrs of sample collec	tion)	
5) pH Check. Manufacturer:	Lot Number: pH strip ty	pH strip type: 0 - 14 or	Expiration Date	Res
6) Chlorine check. Manufacturer: Sansafe. Lot No.:	e. Lot No.: Expiration Date:	Results		
7) VOA and Radon No Samples w	No Samples with Headspace:	Samples with Headspace (see below):	see below):	
h headspac 5 >6mm	leadspace Documentation (use additional VOC and Radon Internal COC 101 additional bottles) is concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 535, Anatoxin, LCMS methods using 40 ml vials, Test Samp ID Bottle # Nonel/6 >6mm Test	556, 536, Anatoxin, LCMS method amp ID Bottle # None/c6 >6mm	s using 40 ml vials, Internati	tional clients: None/< Bottle # mm
Note Sample IDs which have dissimilar headspace	dissimilar headspace (i.e. potential sampling errors):			
SIGNATURE >	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	S PETINGS	Eurofins Eaton Analytical	04.13.2022	15:00
SIGNANDRE	PRINT NAME	COMPANYITILE	DATE	TIME
SAMPLES CHECKED AGAINST COC BY:		Eurofins Eaton Analytical		

Test

D): must be between 0-4 °C, not frozen (if received Lot Number:	type: 0 - 14 or Expiration Date (a) Results Samples with Headspace (see below): don Internal COFC for additional bottles) samp ID Bottle # Nonel/6 >6mm Test Samp ID Bottle # Nonel/6 >6mm Test	Jate Results: International clients: Samp ID Bottle # Nonel/6 >6mn
ave dissimilar headspace (i.e. poten	DATE	TIME
WE Eurofi	CN-13-2022	15:00
TE PRINT NAME	DATE	Time
SAMPLES CHECKED AGAINST COC BY: Eurolins Eaton Analytical	ytical	

EEA Folder Number: 99879	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No	let the ASMs know. ASMs will dete	rrmine whether to proceed with a	nalysis or not.
R Gun ID = 649A (Observation=1.9	1.9 °C) (Corr.Factor -0.3 °C) (Final =	= 1.6 °C)	\	
TYPE OF ICE: Real Synthetic No Ice	CONDITION OF ICE: Frozen	Partially Frozen	an Thawed	N/A
METHOD OF SHIPMENT: Pick-Up / Walk-In	FedEx UPS / DHL / Area Fast / Top Line / Other:	e / Other:		
Compliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP)	pliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)			
2) Microbiology, Distribution: < 10°C, not f	< 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	me day as sample coll	ection, within 8 hours	,
obiology, Surface Water: < 10°C (if r	3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	9		
If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants	1 = (Observation= "C) (Corr.Factor "C) (Final = 3 = (Observation= "C) (Corr.Factor "C) (Final =	.c) 2 = (Observation=	*C) (Corr.Factor *C) (Final = *C) (Corr.Factor *C) (Final = *C)	(D, = N
n (1613 or 2,3,7,8 TCDD): must be b	4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	hrs of sample collect	(noı	e
5) pH Check. Manufacturer:	Lot Number:pH strip type: 0 - 14	- 14 or	Expiration Date	Results:
6) Chlorine check, Manufacturer: Sansafe, Lot No.:	. Lot No.: Expiration Date:	Results		
VOA and Radon No Samples v Headspace: Headspace Documen Exempt from headspace concerns: Methods 515.	vith Headspace: tation (use additional VOC and Ra 4, HAA(6251,522), 505, SPME, @CH, 532LCMS	Samples with Headspace (see below): don Internal COFC for additional bottle, see, 536, Anatoxin, LCMS methods using 40 ml vis. Samp ID Bottle # Nonel-c6 >6mm Test	ee below): ilonal bottles) using 40 ml vials, Internati	International clients: Samp ID Bottle # mm mm
100	WW W			
Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors);	(i.e. potential sampling errors):	- HILLIAM CONTROL	DATE	TIME
SIGNATURE	PHINI NAME EL	ytical	04.13.2022	15:00
SIGNATIBE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLES CHECKED AGAINST COO BY:	18	Furofins Eaton Analytical		



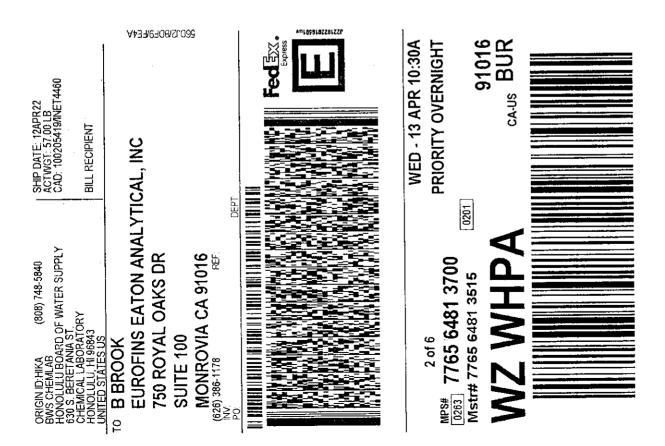
After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

FedEx Service Guide. precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any daim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attominantly and damage whether direct, incidental,consequential, or special is limited to the greater of \$100 or the authorized declared value. Secovery cannot exceed actual documently loss Maximum for items of extraordinary value is \$1.00 or the package.



:ledsl sinting this label:

FedEx Service Guide.

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

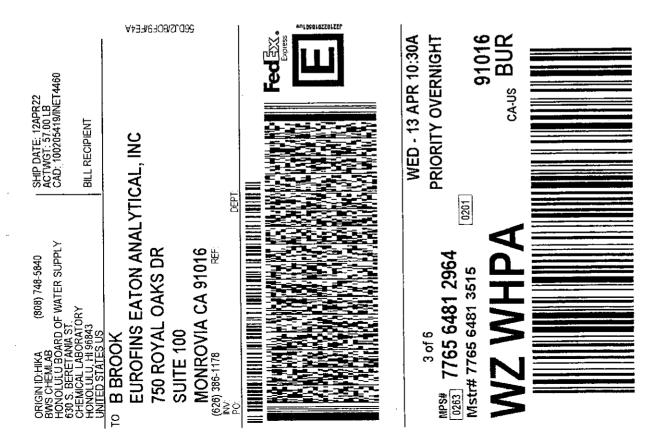
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

adortional orining charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx outless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$1000 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

eunitroOob=bortsmcfelbnsd.noitsAnoitsmnftnoOtnemqids\gniqqida\moo.xebef.www\\:eqtfd



:leds! sint unting this label:

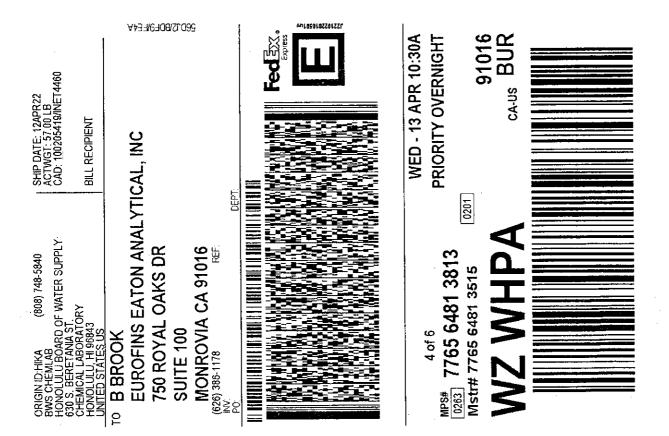
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned. 2. Fold the printed page along the horizontal line.

authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filled within strict time limits, see current FedEx Service Guide. unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Gervice Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the attorney's fees, rosts, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the Warming: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in:

additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be result of loss, damage, delay, non-delivery,misdelivery or misinformation, be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, or misinformation, repercently delays and file a timely claim. I imitations found in the current FedEx



After printing this label:

FedEx Service Guide.

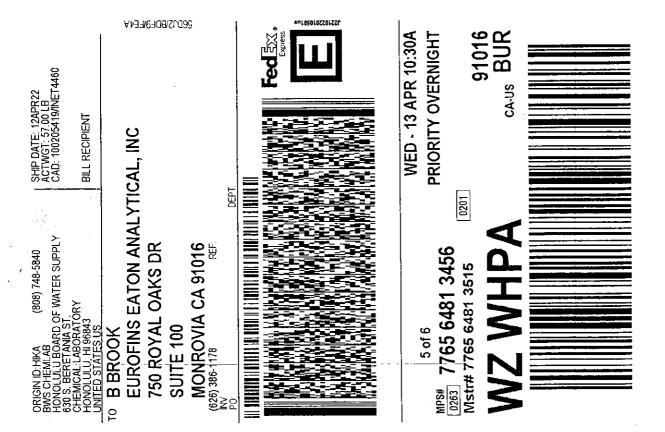
Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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



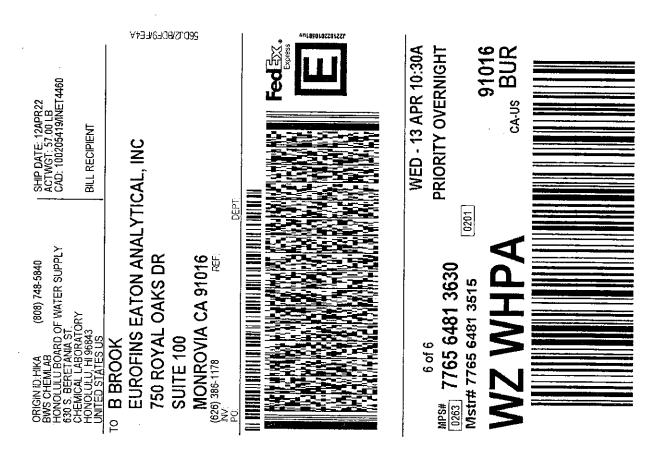
:leds! sint infing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

3. Place tabet in shipping pouch and affix it to your shipment so that the barcode portion of the tabel can be read and scanned. 2. Fold the printed page along the horizontal line.

additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation. Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in

FedEx Service Guide. precious metals, negotiable instruments and other items listed in our ServiceCuide. Written claims must be filed within strict time limits, see current authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry. unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, actioney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the



After printing this label:

FedEx Service Guide.

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer. 2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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



Tel: (626) 386-1100 Fax: (866) 988-3757

1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 998879 Project: RED-HILL

Group: Weekly TPH-8015_RED-HILL (2022)

- EMAX

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

Folder Comments

Analytical results for TPH Gas, Diesel, and Motor Oil are submitted by EMAX Laboratories, Inc., Torrance, CA

ND reporting (subcontract lab reports)
MDL is listed due to report format restrictions; it is not used in reporting. Analytical results reported as ND, are ND at the RL.



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

Report: 998879 Project: RED-HILL

Group: Weekly TPH-8015_RED-HILL (2022)

- EMAX

Samples Received on: 04/13/2022 1500

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

Honolulu, HI 96843

Analyzed Analyte Sample ID Result HI Limit Units MRL	
--	--



Laboratory Data

Report: 998879 Project: RED-HILL

Group: Weekly TPH-8015_RED-HILL (2022)

- EMAX

Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Tel: (626) 386-1100

Honolulu Board of Water Supply

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

Samples Received on: 04/13/2022 1500

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
MOANAL	LUA WELLS	(331-223-T	P202) (20220413	<u>80730)</u>		Sam	pled on 04/12	/2022 090	0
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
04/14/22	04/14/22 22:18			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
04/18/22	04/19/22 23:49			(SW 8015B)	TPH Diesel	ND	mg/L	0.026	1
04/18/22	04/19/22 23:49			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1
Travel B	lank (202204	<u>4130731)</u>				Sam	pled on 04/12	/2022 090	0
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
04/14/22	04/14/22 22:55			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



3051 Fujita Street Torrance, CA 90505 Tel: (310)-618-8889

Date: 04-26-2022

EMAX Batch No.: 22D143

Attn: Jackie Contreras

Eurofins Eaton Analytical 750 Royal Oaks Dr., Suite 100 Monrovia, CA 91016-3629

Subject: Laboratory Report

Project: 998879

Enclosed is the Laboratory report for samples received on 04/14/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202204130730	D143-01 04/12/22	WATER	TPH GASOLINE
			TPH DIESEL & MOTO

202204130731

D143-02 04/12/22

WATER

TOR OIL

TPH GASOLINE

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912021-19 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing California ELAP Accredited Certificate Number 2672

Eaton Analytica eurofins 🐫

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

Submittal Form

Date: 4/14/2022

220143

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 998879 Job # 1000014 Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.

EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605 Reports: Jackie Contreras Sub-Contracting Administrator nvoices to: Eurofins Eaton Analytical, LLC Phone (626) 386-1165 Fax (626) 386-1122

Exp Date for requested tests + matrix Specified StateCertification # and Provide in each Report the

Samples from: HAWAII

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

998879

04/20/2022

4 or 3 containers per sample for MS/MSD batch QC. Low level RL reporting only

SI PWSID Static ID: Clip Code Sample Date & Time Matrix 04/12/22 0900 DW Sample Point ID: Facility ID: Client Sample ID for reference onl MOANALUA WELLS (331-223-TP202) Sample Event: 202204130730 Sample type: Sample ID

(SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil **Analysis Requested Prep Method EPA 5030C EPA 3550B** SW 8015B SW 8015B Method

PWSID Static ID: Clip Code Sample Date & Time Matrix Sample Point ID: 0060 04/12/22 Facility ID Client Sample ID for reference onl Sample Event: Travel Blank 202204130731 Sample type: Sample ID

(SUB)Gas Fraction Hydrocarbons **Analysis Requested Prep Method EPA** 5030C SW 8015B Method

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Date 4-14-12 Time (200

Date

Sample Control

Relinquished by:

Received by:

Time Time

Date Date

Sample Control

Page 2 of 6

temp(

0.4/1.5(1

REPORT ID: 22D143750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Page 23 c.6

Received by:

Relinquished by:



REFERENCE: EMAX-SM02 Rev. 12 SAMPLE RECEIPT FORM 1

Type of De	livery		Airbill / Tracl	king Number	ECN 220143				
□ Fedex □ UPS □ GSO I				****	Recipient DOPOK SHOU				
☐ EMAX Courier ☐ Client Deliv	/ery				Date 4/14/22	Time 12500			
COC INSPECTION ,									
Client Name	Client PM/FC		□ Sampler Name	Sampling Date/Time	Sample ID	C) Matrix			
Address	Tel # / Fax #		Courier Signature	🗹 Analysis Required	Preservative (if any)	□ TAT			
Safety Issues (if any)	High concentrations exp	ected	☐ From Superfund Site	☐ Rad screening required					
Note:	· · · · · · · · · · · · · · · · · · ·								
PACKAGING INSPECTIO	N								
Container Condition	☑ Cooler		□ Box	☐ Other					
Condition ON VOICE			☐ Intact	☐ Damaged					
Packaging fam. V Temperatures -0.5	Bubble Pack		☐ Styrofoam	Popcorn	☐ Sufficient				
Temperatures -0 . S (Cool, ≤6 °C but not frozen)	Cooler 1 5.1/4.6 "C		oler 2°C	Cooler 3 43/3.8°C	Cooler 4 <u>31/26</u> °C	Cooler 5°C			
Thermometer:	☐ Cooler 6 "C A - S/N	∐ Coo	Cooler 7		Cooler 9°C	Cooler 10°C			
Comments: Temperature is out		a inan		CI S/N FIUCITORI	D - S/N				
Note:	Lorrange. The was informe	u Hvilvi	EDIATELT.						
DISCREPANCIES	1 1 1 C ID		Ol: 40 h r	1 115/1 (
LabSampleID	LabSampleContainerID	Code	CilentSample L	abel ID / Information	. Corrective .	Action			
2	13	DIO	acoumos -	13 not indicated	100				
	1.17	DI	100 (64 (11)		1-1				
			11 COC. 64/14						

				i ı					
				- Gylylvi					
pH holding time requirement	for water samples is 15 m	ins. W	ater samples for pH anal			PLS 4/17/2			
				.,	mates from bumping time.	, , , ,			
NOTES/OBSERVATIONS:	WATERO FLATO			n	•				
SAMPLE MATIRIX IS DRINKING	WATER? LIVES LINO	00	to the	200/6 =516	1000 00				
TOILO	The Company	LN.	JUNE 11/E	MU(3 343	1000 July 1	Men Chow			
11 FT -D & M	7164 (N		-						
LEGEND:					☐ Continue to next pag	~~			
Code Description- Sample Mana	gement	Code	Description-Sample Man	aggement	1	,			
(D1) Analysis is not indicated in	Y		Out of Holding Time	iagement	Code Description-Sample Mana R1 Proceed as indicated in CO				
D2 Analysis mismatch COC vs			Bubble is >6mm		R2 Refer to attached instruction	C Labor			
D3 Sample ID mismatch COC v			No trip blank in cooler		R3 Cancel the analysis				
D4 Sample ID is not indicated in			Preservation not indicated	lin	R4 Use vial with smallest bubble:	first			
D5 Container -[improper] [lëaki			Preservation mismatch CC		R5 Log-in with latest sampling da				
D6 Date/Time is not indicated in			Insufficient chemical pres		R6 Adjust pH as necessary	a *-			
D7 Date/Time mismatch COC v			Insufficient Sample	<i>y</i>	R7 Filter and preserved as necessa	iry / la. A			
D8 Sample listed in COC is not		D20	No filtration info for disso	olved analysis	R8 Thomas	Went.			
D9 Sample received is not listed	~~	D21	No sample for moisture dete	rmination	R9				
D10 No initial/date on correction	_	D22			R10 V				
D11 Container count mismatch C	10	D23			RII				
D12 Container size mismatch CC REVIEWS:	1/ /	D24		//	R12	10			
Sample Labeling	JHOWIN /	Jui.) sr	F (Cloubia)	PM	145			
		7Y V		- (/T) M33					

REPORT ID: 22D143

EMAX Laboratories, Inc. 3051 Fujita St., Torrance, CA 90505

Page 3 of 23 Page 23 of 43 pages

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
В	В	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

998879

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 22D143

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 998879

SDG : 22D143

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 04/14/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39D04B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. VG39D04L/VG39D04C were within LCS limits. Refer to LCS summary form for details.

Matrix OC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in D140-01M/D140-01S. Refer to Matrix QC summary form for details.

Surrogate

Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: EUROFINS EATON ANALYTICAL	NALYTICAL							SDG NO.	: 22D143
	: 998879								Instrumen	Instrument ID : GCT039

					WATER	ËR				
Slient		Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	Datelime	Data FN	Data FN	Batch	Notes
		1 1 1 1 1	1 1 1 1	1 1 1		1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
MBLK1W		VG39D04B	_	NA	04/14/2212:30	04/14/2212:30	ED14004A	ED14003A	22VG39D04	22VG39D04 Method Blank
CSTW		VG39D04L	_	NA	04/14/2213:07	04/14/2213:07	ED14005A	ED14003A	22VG39D04	22VG39D04 Lab Control Sample (LCS)
LCD1W		VG39D04C	_	NA N	04/14/2213:44	04/14/2213:44	ED14006A	ED14003A	22VG39D04	22VG39D04 LCS Duplicate
02204130730	0,	D143-01	_	NA	04/14/2222:18	04/14/2222:18	ED14020A	ED14012A	22VG39D04	22VG39D04 Field Sample
102204130731	5.1	D143-02	- -	NA	04/14/2222:55	04/14/2222:55	ED14021A	ED14012A	22VG39D04	22VG39D04 Field Sample

SAMPLE RESULTS

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/12/22 09:00

Project : 998879 Date Received: 04/14/22 Batch No. : 22D143 Sample ID : 202204130730 Date Extracted: 04/14/22 22:18

Date Analyzed: 04/14/22 22:18 Lab Samp ID: D143-01 Dilution Factor: 1

Matrix: WATER Lab File ID: ED14020A % Moisture: NA Ext Btch ID: 22VG39D04 Calib. Ref.: ED14012A Instrument ID: 39

RESULTS PARAMETERS (mg/L) (mg/L) (mg/L) ------GASOLINE ND 0.020 0.010

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0342 0.0400 86 60-140

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml Analyzed by : SCerva Prepared by : SCerva

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/12/22 09:00

Project : 998879 Date Received: 04/14/22 Batch No. : 22D143 Date Extracted: 04/14/22 22:55 Sample ID : 202204130731 Date Analyzed: 04/14/22 22:55

Sample ID : 202204130731 Date Analyzed: 04/14/22 22:55
Lab Samp ID: D143-02 Dilution Factor: 1
Lab File ID: ED14021A Matrix: WATER

Ext Btch ID: 22VG39D04 % Moisture: NA Calib. Ref.: ED14012A Instrument ID: 39

 RESULTS
 RL
 MDL

 PARAMETERS
 (mg/L)
 (mg/L)

 GASOLINE
 ND
 0.020
 0.010

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT

Bromofluorobenzene 0.0347 0.0400 87 60-140

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml Prepared by : SCerva Analyzed by : SCerva

REPORT ID: 22D143

Page 10 of 23
Page 30 of 43 pages

QC SUMMARIES

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/14/22 12:30

Date Received: 04/14/22 Date Extracted: 04/14/22 12:30

Project : 998879 Batch No. : 22D143 Sample ID : MBLK1W Date Analyzed: 04/14/22 12:30

Lab Samp ID: VG39D04B Dilution Factor: 1 Lab File ID: ED14004A Matrix: WATER Ext Btch ID: 22VG39D04 % Moisture: NA Calib. Ref.: ED14003A Instrument ID: 39

RESULTS RL MDL (mg/L) (mg/L) PARAMETERS -----ND 0.020 0.010 GASOLINE

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0363 0.0400 91 60-140

Notes:

H-C Range Parameter Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml

Prepared by : SCerva Analyzed by : SCerva

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 998879 BATCH NO. : 22D143 METHOD : 5030B/8015B

: WATER MATRIX % MOISTURE:NA DILUTION FACTOR: 1 1 SAMPLE ID : MBLK1W LCS1W LCD1W LAB SAMPLE ID : VG39D04B VG39D04L VG39D04C LAB FILE ID : ED14004A ED14005A ED14006A 04/14/22 13:07 DATE PREPARED : 04/14/22 12:30 04/14/22 13:44 DATE ANALYZED : 04/14/22 12:30 PREP BATCH : 22VG39D04 04/14/22 13:07 04/14/22 13:44 22VG39D04 22VG39D04 CALIBRATION REF: ED14003A ED14003A ED14003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.491	98	0.500	0.484	97	1	60-130	30
	ME THE THE THE THE THE THE THE THE THE TH	THE PART LAW THE THE THE TANK THE THE THE THE	THE THE SHE SHE SHE SHE SHE SHE SHE SHE SHE S				:======	======		
SURROGATE PARAMETER		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0462	116	0.0400	0.0463	116		70-130	•
		========		======			=======	=======		:=======

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 998896
BATCH NO. : 22D140
METHOD : 5030B/8015B

CALIBRATION REF: ED14012A

ED14012A

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1 1

SAMPLE ID : 202204130762 202204130762MS 202204130762MSD LAB SAMPLE ID : D140-01 D140-01M D140-01S LAB FILE ID : ED14013A ED14014A ED14015A DATE PREPARED : 04/14/22 18:01 04/14/22 18:38 04/14/22 19:15 DATE ANALYZED : 04/14/22 18:01 PREP BATCH : 22VG39D04 04/14/22 18:38 04/14/22 19:15 22VG39D04 22VG39D04

ED14012A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.445	89	0.500	0.473	95	6	50-130	30
=======================================				======	========		=======	======		
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0441	110	0.0400	0.0453	113		60-140	

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

998879

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22D143

CASE NARRATIVE

Client: EUROFINS EATON ANALYTICAL

Project: 998879

SDG : 22D143

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 04/14/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

The sample was analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSD017WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSD017WL. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22D122-01M/22D122-01S. Refer to Matrix QC summary form for details.

Surrogate

Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met. Sample D143-01 displayed a light fuel pattern.

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

client :	: EUROFINS EATON ANALYTICAL							SDG NO.	: 22D143
	: 998879							Instrumen	Instrument ID : D5
				WA	WATER				
Client	Laboratory	_aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
 - - - -	1 1 1 1 1 1 1		1 1 1	1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
MBLK1W	DSD017WB	-	Ν	04/19/2217:01	04/18/2210:45	LD19010A	LD19004A	22DSD017W	22DSD017W Method Blank
LCS1W	DSD017WL	-	NA	04/19/2217:20	04/18/2210:45	LD19011A	LD19004A	22DSD017W	22DSD017W Lab Control Sample (LCS)
202204130730	D143-01	-	NA	04/19/2223:49	04/18/2210:45	LD19032A	LD19022A	22DSD017W	22DSD017W Field Sample

FN - Filename % Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/12/22 09:00 Project : 998879 Date Received: 04/14/22

Batch No. : 22D143 Date Extracted: 04/18/22 10:45
Sample ID : 202204130730 Date Analyzed: 04/19/22 23:49

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.026	0.013	
Motor Oil	ND	0.052	0.026	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.550	0.515	107	60-130
Hexacosane	0.128	0.129	100	60-130

Notes:

Parameter H-C Range Diesel C10-C24

Motor 0i1 C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 970ml Final Volume : 5ml

Prepared by : POreto Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

: EUROFINS EATON ANALYTICAL Date Collected: 04/18/22 10:45 Client

Project : 998879 Batch No. : 22D143 Date Received: 04/18/22

Date Extracted: 04/18/22 10:45 Date Analyzed: 04/19/22 17:01 Sample ID : MBLK1W

Lab Samp ID: DSD017WB Dilution Factor: 1 Lab File ID: LD19010A Matrix: WATER Ext Btch ID: 22DSD017W % Moisture: NA Calib. Ref.: LD19004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.466	0.500	93	60-130
Hexacosane	0.119	0.125	95	60-130

Notes:

Parameter H-C Range Diesel C10-C24 Motor Oil C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml Analyzed by : SDeeso

: POreto Prepared by

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 998879
BATCH NO. : 22D143
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSD017WB DSD017WL
LAB FILE ID : LD19010A LD19011A
DATE PREPARED : 04/18/22 10:45 04/18/22

DATE PREPARED : 04/18/22 10:45
DATE ANALYZED : 04/19/22 17:01
PREP BATCH : 22DSD017W 22DSD017W
CALIBRATION REF: LD19004A LD19004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.63	105	50-130
****************	=======	========	.=======	=======	========
		SpikeAmt	LCSResult	LCSRec	QCLimit

	SpikeAmt	LCSResult	LUSRec	QCL1m1t
SURROGATE PARAMETERS	(mg/L)	(mg/L)	(%)	(%)
Bromobenzene	0.500	0.384	77	60-130
Hexacosane	0.125	0.118	94	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 998532 : 22D122

METHOD

: 3520C/8015B

MATRIX DILUTION FACTOR: 1

: WATER

0.131

% MOISTURE:NA

SAMPLE ID : 202204120564 LAB SAMPLE ID : 22D122-01

202204120564MS 22D122-01M

202204120564MSD 22D122-01S

DATE ANALYZED : 04/19/22 18:53

LAB FILE ID : LD19016A DATE PREPARED : 04/18/22 10:45 LD19017A 04/18/22 10:45 04/19/22 19:11

LD19018A 04/18/22 10:45 04/19/22 19:30

60-130

PREP BATCH : 22DSD017W CALIBRATION REF: LD19004A

22DSD017W LD19004A

22DSD017W LD19004A

0.132

101

ACCESSION:

Hexacosane

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.62	3.34	127	2.62	2.94	112	13	50-130	30
=======================================	:========	=======		======			:======			=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Promobonzono		0.525	0.522	00	0 525	0.440	8/.		40-130	

104

0.131

0.136

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate