

ACCREDITED
CERTIFICATE #'s 5890.01 & 5690.02

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
03/31/2022

EUROPINS ATON
ANALYTICAL, LLC

DEB: Debbie L Frank

Project Manager



Report: 993701 Project: RED-HILL

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

- \* 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
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

<sup>\*</sup> 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)
Enterococci
Enterococci
Escherichia coli
CEnumeration   SM 9221 F   X   SM 9221 F   Fecal Coliform (P/A and Enumeration)   M 9271 G   X   X   X   E(MTFEC). SM 9221   X   X   X   E(MTFEC). SM 9221   X   X   X   E(MTFEC). SM 9221   X   X   X   E(MTFEC). SM 9230 B   X   X   X   E(MTFEC). SM 9231 C   X   X   X   E(MTFEC). SM 9231 C   X   X   X   E(MTFEC). SM 9221 C   X   X   E(MTFEC). SM 9223 C
Fecal Coliform (P/A and Enumeration) Fecal Streptococci and Enterococci Heterotrophic Bacteria Legionella Resudomonas aeruginosa  Total Coliform (P/A and Enumeration) Total Coliform, Total Coliform with Chlorine Present Total Coliformel Coil (P/A and Enumeration, Idexx Colilert, Idexx Colilert, Idexx Colilert, Idexx Colilert, Idexx Colilert, Idexx Colilert, Idexx Colilet 18, Colisure) Total Microcystins and Nodularins Yeast and Mold SM 9610  1,2,3-Trichloropropane (TCP) at 5 PPT T,4-Dioxane  EPA 566 Acrylamide LCMS 2440) Algal Toxins/Microcys in LCMS 3570 Alkalinity SM 2320B Acrylamide LEMS 2440) Ammonia SM 4500-N1-3 BOD/CBOD SM 5210 B Bromate LCMS -2447 Carbonate as CO3 Carbonyls EPA 410.4, SM 5220D Chlorine Dioxide SM 4500-CI G Corosivity (Langelier Index), Carbonate as CO3 Hydroxide as CH Carculated Cyanide (Free) SM 4500-CN F X X X X X X X X X X X X X X X X X X X
Fecal Streptococci and
Fecal Streptococci and Enterococci   SM 9230 B   X   X
Fecal Streptococci and Enterococci Heterotrophic Bacteria SM 9215 B x Legionella Legiolert® X Idexx Pseudomonas aeruginosa Pseudalert X Pseudomonas aeruginosa Total Coliform (P/A and Enumeration) SM 92216, SM 9221 c X X X X X X X X X X X X X X X X X X
Enterococci
Heterotrophic Bacteria Legionella Legiolert®
Legionella   Legiolert®   X
Total Coliform (P/A and Enumeration)
Pseudomonas aeruginosa
Pseudomonas aeruginosa
Total Coliform (P/A and Enumeration)
Enumeration   G221B, SM 9221 C   X   X     Total Coliform, Total Coliform with Chlorine Present   SM 9221 B   X   X     Total ColiformEctoli (P/A and Enumeration, Idexx Colilert, Idexx Colilert, 18, Colisure)   Total Microcystins and Nodularins   EPA 546   X     Total Microcystins and Nodularins   EPA 546   X     Yeast and Mold   SM 9610   X     1,2,3-Trichloropropane (TCP) at 5 PPT   TCP   X     1,4-Dioxane   EPA 522   X     2,3,7,8-TCDD   Modified EPA   1613 B   X     Acrylamide   +LCMS 2440   X     Algal Toxins/Microcys in   +LCMS 3570   X     Alkalinity   SM 2320B   X   X     EPA 350.1,   Ammonia   SM 4500-NH3   X     Asbestos   EPA 100.2   X   X     Bicarbonate Alkalinity as   HCO3   BOD/CBOD   SM 5210 B   X     Bromate   +LCMS -2447   X     Carbonate as CO3   SM 2330 B   X   X     Carbonate as CO3   SM 2330 B   X   X     Carbonate as CO3   SM 2330 B   X   X     Carbonate as CO3   EPA 410.4   SM 5220D   X     Chlorinated Acids   EPA 515.4   X     Palin Test   Chlorino Dioxide   Chlorino X Plus, SM 4500-CL O2   D     Chlorine, Free, Combined, Total Residual, Chloramines   Color   SM 230 B   X     Comosivity (Langelier Index), Carbonate as CO3   SM 2330 B   X     Corrosivity (Langelier Index), Carbonate as CO3   SM 2330 B   X     Corrosivity (Langelier Index), Carbonate as CO3   SM 2330 B   X     Corrosivity (Langelier Index), Carbonate as CO3   SM 2330 B   X     Cyanide (Amenable)   SM 4500-CN   G   X     Cyanide (Free)   SM 4500-CN   X
Coliform with Chlorine
Coliform with Chlorine   Present
Present
Present
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert, Idexx Colilert, Idexx Colilert (Scotilert)
Enumeration, Idexx Colliert, Idexx Colliert, Idexx Colliert 18, Colisure)   Total Microcystins and Nodularins   EPA 546   X     Yeast and Mold   SM 9610   X     1,2,3-Trichloropropane (TCP) at 5 PPT   TCP   X     1,4-Dioxane   EPA 522   X     2,3,7,8-TCDD   Modified EPA   1613 B   X     Acrylamide   †LCMS 2440)   X     Algal Toxins/Microcys in   LCMS 3570   X     Alkalinity   SM 2320B   X   X     EPA 350.1,
Idexx Collier' 18, Colisure)
Total Microcystins and Nodularins
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           Algal Toxins/Microcys in         *LCMS 3570         x           Alkalinity         SM 2320B         x         x           Ammonia         *LCMS 3570         x         x           EPA 350.1, SM 4500-NH3         x         x         x           Ammonia         EPA 350.1, SM 4500-NH3         x         x         x           Asbestos         EPA 100.2         x         x         x           Bicarbonate Alkalinity as HCO3         SM 2330 B         x         x         x           Bromate         *LCMS-2447         x         x         x           Carbonate as CO3         SM 2330 B         x         x         x           Chemical Oxygen Demand         EPA 410.4, SM 5220D         x         x           Chlorine Dioxide         EPA 515.4         x         x           Chlorine, Free, Combined, Total Residual, Chloramines         SM 4500-CLO2         x         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/Microcys in         †LCMS 3570         X           Alkalinity         SM 2320B         X           Ammonia         SM 2320B         X           Asbestos         EPA 350.1, SM 4500-NH3         X           Asbestos         EPA 100.2         X           Bicarbonate Alkalinity as HCO3         SM 2330 B         X           BoD/CBOD         SM 5210 B         X           Bromate         †LCMS-2447         X           Carbonyls         EPA 556         X           Carbonyls         EPA 556         X           Chemical Oxygen Demand         EPA 410.4, SM 5220D         X           Chlorine Dioxide         EPA 515.4         X           Chlorine, Free, Combined, Total Residual, Chloramines         SM 4500-CLO2 D         X           Conductivity         EPA 120.1, SM 2510B         X           Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated         SM 4500-CN G         X           Cyanide (Amenable)
TCP
TCP
TCP
1,4-Dioxane
2,3,7,8-TCDD
Acrylamide
Acrylamide
Algal Toxins/Microcys in
Alkalinity
Alkalinity
Ammonia
Ammonia  Asbestos  EPA 100.2  Bicarbonate Alkalinity as HCO3  BOD/CBOD  Bromate  **LCMS-2447**  Carbonate as CO3  Carbonyls  EPA 556  Chemical Oxygen Demand  Chlorine Dioxide  Chlorine, Free, Combined, Total Residual, Chloramines  Color  Conductivity  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  Cyanide (Amenable)  EPA 100.2  X  X  X  X  X  X  X  X  X  X  X  X  X
H
Asbestos
Asbestos
Bicarbonate Alkalinity as HCO3
HCO3
BOD/CBOD
Bromate
Carbonate as CO3
Carbonate as CO3
Carbonyls EPA 556 x x x  Chemical Oxygen Demand SM 5220D  Chlorinated Acids EPA 410.4, SM 5220D  Chlorinated Acids EPA 515.4 x  Palin Test Chlordio X Plus, SM 4500-CLO2 D  Chlorine, Free, Combined, Total Residual, Chloramines  Color SM2120B x  Conductivity EPA 120.1, SM 2510B x  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G x x  Coyroide (Free) SM 4500-CN x x
Chemical Oxygen Demand  Chlorinated Acids  Chlorinated Acids  EPA 515.4  Palin Test Chlorine Dioxide  Chlorine Dioxide  Chlorine, Free, Combined, Total Residual, Chloramines  Color  SM 4500-CL O2 D  Chlorine, Free, Combined, Total Residual, Chloramines  Color  SM 2120B  EPA 120.1, SM 2510B  X  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  SM 4500-CN G X  X  X
Chemical Oxygen Demand  Chlorinated Acids  Chlorine Dioxide  Chlorine Dioxide  Chlorine, Free, Combined, Total Residual, Chloramines  Color  Conductivity  Conductivity  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  Cyanide (Free)  SM 5220D  X  A SM 5220D  X  A SM 450.CI G  X  Chlorine, Free, Combined, SM 4500-CI G  X  Color  SM 4500-CI G  X  X  X  X  X  X  X  X  X  X  X  X  X
Chlorinated Acids  EPA 515.4  Palin Test Chlorine Dioxide  Chlorine, Free, Combined, Total Residual, Chloramines  Color  Conductivity  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  Cyanide (Free)  SM 4500-Cl G  X  X  X  X  X  X  X  X  X  X  X  X  X
Chlorinated Acids  EPA 515.4  Palin Test Chlorine Dioxide  Chlorine, Free, Combined, Total Residual, Chloramines  Color  SM 4500-Cl G  X  SM 4500-Cl G  X  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
Chlorine Dioxide  Chlorine, Free, Combined, Total Residual, Chloramines  Color  Conductivity  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  Cyanide (Free)  Chlorine, Free, Combined, SM 4500-CI G  SM 4500-CI G  X  X  X  X  X  X  X  X  X  X  X  X  X
Chlorine Dioxide  Chlorine X Plus, SM 4500-CLO2 D  Chlorine, Free, Combined, Total Residual, Chloramines  Color SM2120B X  Conductivity EPA 120.1, SM 2510B X  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G X X  Cyanide (Free) SM 4500CN F X X
Chlorine, Free, Combined, Total Residual, Chloramines  Color  Conductivity  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  SM 4500-CLO2  X  X  X  X  X  X  X  X  X  X  X  X  X
Chlorine, Free, Combined, Total Residual, Chloramines  Color SM2120B x  Conductivity EPA 120.1, SM 2510B x  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G x x  Cyanide (Free) SM 4500CN F x x
Chlorine, Free, Combined, Total Residual, Chloramines  Color SM2120B x  Conductivity EPA 120.1, SM 2510B x  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G x x x C
Chlorine, Free, Combined, Total Residual, Chloramines  Color SM2120B x  Conductivity EPA 120.1, SM 2510B x  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G x x x C
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 Cyanide (Amenable) SM 4500-CN G X X X  Cyanide (Free) SM 4500CN F X X
Chloramines  Color SM2120B X  Conductivity EPA 120.1, SM 2510B X  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G X X X  Cyanide (Free) SM 4500CN F X X
Color SM2120B x  Conductivity EPA 120.1, SM 2510B x  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN G x x  Cyanide (Free) SM 4500CN F x
Conductivity  EPA 120.1, SM 2510B  X  X  X  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  Cyanide (Free)  SM 4500-CN G X X  X
Conductivity SM 2510B X X  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN
Conductivity SM 2510B X X  Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable) SM 4500-CN
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated  Cyanide (Amenable)  Cyanide (Free)  SM 4500-CN
Index), Carbonate as CO3, Hydroxide as OH Calculated   SM 2330 B   x
Hydroxide as OH
Hydroxide as OH   Calculated   Cyanide (Amenable)   SM 4500-CN   x   x   x
Cyanide (Amenable)         SM 4500-CN G         x         x           Cyanide (Free)         SM 4500CN F         x         x
Cyanide (Amenable)         SM 4500-CN G         x         x           Cyanide (Free)         SM 4500CN F         x         x
Cyanide (Amenable)         G         X         X           Cyanide (Free)         SM 4500CN F         X         X
Cyanide (Free) SM 4500CN F x x
Cvanide (Total) EPA 335.4 x x
Cyanogen Chloride +335 Mod
(Screen) (WC-24467)
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
EDD/DDODI
EDB/DBCP and FPA 551.1 x
Disinfection Byproducts EPA 551.1 X
FPA 551 1 Y
Disinfection Byproducts
Disinfection Byproducts  EDTA and NTA  + WC-2454  EPA 591.1  X  EPA 591.1  X  EPA 591.1  X  EPA 591.1
Disinfection Byproducts
Disinfection Byproducts
Disinfection Byproducts
Disinfection Byproducts

.com/Eaton			
Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	х	x
Hardness	SM 2340 B	Х	Х
Hexavalent Chromium	EPA 218.6,	Х	Х
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)	x	
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 Disinfec ion	EPA 317.0	v	
Byproducts	EPA 317.0	Х	
Perchlorate	EPA 331.0	Х	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA	х	
PPCP and EDC	537, EPA 537.1 + LCMS-2443	Х	
	EPA 150.1		
pH	SM 4500-H+ B	х	Х
Phenolics – Low Level	*WC 2493 (EPA		
Theriones Low Level	420.2 and EPA	X	x
Phenylurea	420.4 MOD)		
Pesticides/Herbicides	+LCMS-2448	х	
Radium-226, Radium-228	GA Tech (Rad- 2374)	x	
Radon-222	SM 7500RN	Х	
Residue (Filterable)	SM 2540C	Х	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	x	x
Sulfide	SM 4500-S D		Х
Sulfite	SM 4500-SO3 B	Х	Х
Surfactants	SM 5540C	Х	Х
Taste and Odor	SM 6040 E	X	
Total Organic Carbon	SM 5310 C	Х	X
Total Phenols	EPA 420.1		X
Total Phenols Triazine Pesticides and	EPA 420.4	Х	Х
their Degradates	+LCMS-3617	х	
Turbidity	EPA 180.1	Х	Х
Uranium by ICP/MS	EPA 200.8	Х	
UV 254 Organic Constituents	SM 5910B	х	
VOCs	EPA 524.2	X	
¥003	+(GCMS 2412)	^	
VOCs	by EPA 524.2	x	
	modified		

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

<sup>(+)</sup> 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 #: 993701 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 **March 17, 2022** at **1530**. 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
202203180055	AIEA GULCH WELLS P1 (331-201-TP071)	03/15/2022 1033
	TPH 8015 Diesel and Motor Oil	
202203180056	AIEA GULCH WELLS P2 (331-202-TP072)	03/15/2022 1059
	TPH 8015 Diesel and Motor Oil	

#### **Test Description**

## 💸 eurofins

# CHAIN OF CUSTODY RECORD

Eaton Analytical EUROFINS EATON ANALYTICAL USE ONLY:
LOGIN COMMENTS:

750 Royal Oaks Drive Strife 100	LOGIN COMMENTS:		98			SAMPLES CHECKED AGAINST COC BY:	D AGAINS	T COC BY:	1
Monrovia, CA 91016-3629						SAMP	LES LOG	SAMPLES LOGGED IN BY:	
Phone: 626 386 1100	SAMPLE TEMP RECEIV	ED AT: IR Gun ID =		(Observation=	1	SAMPLES REC'D DAY OF COLLECTION?  °C) (Corr.Factor°C) (Final =	DAY OF COLLE  "C) (Final =	ွ	(check for yes)
800 566 LABS (800 566 5227)	Monrovia	IR Gun ID =	= 649	AA (Observation=	on= 5.7	°C) (Corr.Factor -0.3	°C) (Final =	al = 5.4 °C)	
com	Compliance Acceptance Criteria: (Chemistry: 4±2°C) (Microbiology: <10°C  TYPE OF ICE: Real Synthetic CONDI	riteria: (Chemis Synthetic	stry: 4±2°C	°C) (Microbiology: < 10° No Ice CON	CONDITION OF ICE: F	Frozen Partial	Partially Frozen	Thawed	N/A
	METHOD OF SHIPMENT: Pick-Up / Walk-In	MENT: Pic	k-Up / W.		/ UPS / DHL / Ar	FedEX / UPS / DHL / Area Fast / Top Line / Other:	/ Other:		
TO BE COMPLETED BY SAMPLER:				- W-0-1		ck for yes)		(chec	(check for yes)
COMPANY/AGENCY NAME:	PROJECT CODE:			00	COMPLIANCE SAMPLES	I	I-COMPLIA	NON-COMPLIANCE SAMPLES	7
	RED-HILL			Type of sample	- Requires state forms Type of samples (circle one): ROUTI	NE SPECIAL	CONFIRMATION	WOLVED.	(eg. SDWA, NPDES, etc.)
EEA CLIENT CODE: COC ID: HONOLULU	SAMPLE GROUP: AIEA GULCH	WELLS		SEE ATTAC	HED KIT ORDE ALYSES REQUIR	SEE ATTACHED KIT ORDER FOR ANALYSES (check for yes). <u>OR</u> List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	ES f bottles ser	(check for yes),	s), <u>OR</u> each sample)
TAT requested: rush by adv notice only	STD 1 wk 3 day	2 day	1 day	)					
SAMPLE ID	CLIENT LAB ID	• XIRTAM	ATAG DATA ATAG DATA	198HdL				SAN	SAMPLER
3-15-22 10:33 AIEA GUCH WELLS PI	331-201			1					
3.15.22 10:59 ATEA GUICH WELLS P.2	331-004			3					
		200		P					
				<i>J</i>					
							+		
						7 10	+		
	x							-	
* MATRIX TYPES; RSW = Raw Surface Water RGW = Raw Ground Water	CFW = Chlor(am)inated Finished Water FW = Other Finished Water	ted Finished Water	d Water	SEAW = Sea Water WW = Waste Water		BW = Bottled Water SW = Storm Water S	SO = Soil SL = Sludge		O = Other - Please Identify
SIGNATURE		PRI	PRINT NAME		99	COMPANY/TITLE		DATE	TIME
SAMPLED BY:									
RELINQUISHED BY:	10						10		
RECEIVED BY:	Ó	REITHER	AI.	144	1	3年	)	2202- 4150	15:30
RELINQUISHED BY:									
RECEIVED BY:			18						
QA FO 0029.2 (Version 2) (08/28/2014)					0			PAGE	OF

# Kit Order for BOARD OF WATER SUPPLY, CITY AND COUNTY OF

Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager

Eaton Analytical

eurofins ...

Created Date & Time: 12/10/2021 9:13:30PM

# Note: Sampler Please return this paper with your samples

Client ID: HONOLULU

Kit #: 307682

(626) 386-1100 FAX (866) 988-3757

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

Created By: - [AutoGenerated]

STG: Bottle Orders

Ice Type: G

Pre Registered

Deliver By: 01/05/2022

Red-Hill Expanded List (Albuquerque+) RED-HILL Bottle Orders Project Code: Group Name:

C20525101 exp 05312023 PO#/JOB#: Description:

AIEA GULCH WELLS PUMP 2 - de

Honolulu Board of Water Supply 630 South Beretania Street Attn: Ron Fenstemacher Phone: 808-748-5841 Ship Sample Kits to Honolulu, HI 96843 Fax: 808-550-5572 Chemistry Lab

Honolulu Board of Water Supply Public Service Bldg." Room 308 630 South Beretania Street Attn: Erwin Kawata Phone: 808-748-5091 Honolulu, HI 96843 Fax: 808-550-5018 Send Report to

Honolulu Board of Water Supply Public Service Bldg." Room 308 630 South Beretania Street Attn: Erwin Kawata Phone: 808-748-5091 Honolulu, HI 96843 Billing Address

Fax: 808-550-5018

# LOG NO Total 6 Bottle Qty - Type [preservative information] 9 - 1L amber glass [ 1 ml Thio 8% ] TPH 8015 Diesel and Motor Oil C, TPH 8015 Jet Fuel 5\_C, TPH 8015 Jet Fuel 8\_C

3 - 40ml amber glass viat [1 drop Thio (8%)]

2 - 40ml amber glass vial [1 drop Thio (8%) + H20

Sum Bottles: 14

3

Sum Tests: 3

@504MOD TB C, 8015 Gas\_C TB

8015 Gas\_C

Comments

1st MS/MSD

SITE ID:

331-202 AIEA GULCH WELLS PUMP 2

SAMPLER

EIGHT 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND NINE 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES. THIS IS A MS/MSD SITE. SHIPPING:

-abel Cooler on TOP and right below both Handles with Site description of contents (use extra Contaienr Labels)

Travel Blanks - TBA/MTBE, VOASDWA - Prepare TBs in the VOA LAB.

ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624

Sample Tests to#

N

Prepared By GJY

7

# of Coolers

Tracking # 549140324875

Via FEDEX

Date Shipped 01/04/2022

Status

Code

Page 6 of 28 pages



#### 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.

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 \$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 FedEx Service Guide.

	Pageof
[ <b>*</b> ]	

RECORD	etermine whether to proceed with analysis or not. S $/$ NO	,	zen Thawed N/A			ollection, within 8 hours)		(3.   [ethal] (3.	(C) (Cott-Factor (C) (Final w	ctlon) .	Expiration DateResults:		see below):	s using 40 mi viais, international silants:  Test Samp ID Bottle # None - Samm Test  Test Samp ID Bottle # None - Samp ID Bott			DATE TIME	03:17-2012 15:30	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	on= 5.7 °C) (Corr. Factor -0.3 °C) (Final = 5.4 °C)	lo Ice CONDITION OF ICE: Frozen Partially Frozen	(/ FedEx /) UPS / DHL / Area Fast / Top Line / Other:	pliance Acceptance Criteria:	ot frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	(if received after 2 hours of sample collection)	1 = (Observation - (C) (Carr, Factor - (C) (Final - (C) 2 = (Observation - (C) 2 = (Observa	3 = (Observation = (Corr.Factor	e between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	Lot Number:pH strip type: 0 - 14 or	safe. Lot No.: Expiration Date: Results	No Samples with Headspace:  Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)	Exempt from headspace concerns: Methods 515.4, HAA(9231,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi vials, International clients: International clients and Internationa			nace (i.e. potential sampling errors):	Eurol		Eurofins Eaton Analytical	
eurofins	EEA Folder Number: CCCT A Tralytical	IR Gun ID = 649A (Observation= 5.7	TYPE OF ICE: Real Synthetic N	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria:	2) Microbiology, Distribution: < 10°C, n	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	(smpsrature of each quadrant and record each temparature of the quadrants	4 Dloxin (1613 or $\dot{2}$ ,3,7,8 TCDD): must b	5) pH Check. Manufacturer:	6) Chlorine check, Manufacturer: Sansafe. Lot No.:	VOA and Radon No Sampl 7) Headspace:	Exampt from headspace concerns: Method. Samp ID Bottle # None/<6 >6mm Test Sar.	Ш		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	RECEIVED BY:	SIGNATURE	SAMPLES CHËCKED AGAINST COD BY:	



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

1 800 566 LABS (1 800 566 5227)

#### **Laboratory Comments**

Report: 993701 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 8015 Diesel and Motor Oil are submitted by Emax Laboratories, Inc. Torrance, CA



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

Report: 993701 Project: RED-HILL

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

- EMAX

Samples Received on: 03/17/2022 1530

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
--	-----------



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

1 800 566 LABS (1 800 566 5227)

#### **Laboratory Data**

**Report**: 993701 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

Samples Received on: 03/17/2022 1530

Prepped	Analyzed F	Prep Batch	Analytical Batch	Method		Analyte	Result	Units	MRL	Dilution
AIEA GU	ILCH WELLS P	1 (331-20	1-TP071) (2022	03180055)			Samı	oled on 03/15	/2022 103	3
	SV	W 8015B -	TPH 8015 Dies	el and Motor	Oil					
03/21/22	03/22/22 21:14			(SW 8015B)	TPH Diesel		ND	mg/L	0.027	1
03/21/22	03/22/22 21:14			(SW 8015B)	TPH Motor Oil		ND	mg/L	0.054	1
AIEA GU	ILCH WELLS P	P2 (331-20	2-TP072) (2022)	<u>03180056)</u>			Samı	oled on 03/15	/2022 105	9
	SV	W 8015B -	TPH 8015 Dies	el and Motor	Oil					
03/21/22 0	03/22/22 21:33			(SW 8015B)	TPH Diesel		ND	mg/L	0.025	1
03/21/22	03/22/22 21:33			(SW 8015B)	TPH Motor Oil		ND	mg/L	0.050	1



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

#### **Laboratory QC Summary**

**Report:** 993701 Project: RED-HILL

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

- EMAX

Honolulu	Board	of	Water	Supply
----------	-------	----	-------	--------

**Analytical Batch:** Analysis Date: Analyzed by:



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

1 800 566 LABS (1 800 566 5227)

Laboratory QC

Report: 993701 Project: RED-HILL

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

- EMAX

Honolulu Board of Water Supply

QC Type Analyte Spiked Recovered Units Yield(%) Limits (%) RPD%

by

Analytical Batch: Analysis Date:



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

1 800 566 LABS (1 800 566 5227)

#### **Laboratory Hits**

Report: 993701 Project: RED-HILL

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

- EMAX

Samples Received on: 03/17/2022 1530

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

Honolulu, HI 96843

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



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

Date: 03-28-2022 EMAX Batch No.: 22C225

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 993701

Enclosed is the Laboratory report for samples received on 03/18/22.

Enclosed is the Laboratory report for samples received on 03/18/22. The data reported relate only to samples listed below:

Sample ID	Control # Co	ol Date	Matrix	Analysis
202203180055	C225-01 03	3/15/22	WATER	TPH DIESEL & MOTOR OIL
202203180056	C225-02 03	3/15/22	WATER	TPH DIESEL & MOTOR OIL

The results are summarized on the following pages.

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

Sincerely, yours,

ɗaspar 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

Date: 3/18/2022

\*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder# 993701 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 Reports: Jackle Contreras Sub-Contracting Administrator

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St

Torrance, CA 90505

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

Samples from: HAWAII

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

993701

03/24/2022

2-3 day rush

Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Invoices to: Eurofins Eaton Analytical, LLC

Phone (626) 386-1165 Fax (626) 386-1122

ST **PWSID** Static ID: Clip Code Sample Date & Time Matrix 03/15/22 1033 DW Sample Point ID: Facility ID: AIEA GULCH WELLS P1 (331-201-TP071) Client Sample ID for reference onl Sample Event: 202203180055 Sample type: Sample ID

Analysis Requested Prep Method SW 8015B Method

TPH 8015 Diesel and Motor Oil **EPA 3550B** 

Facility ID: AIEA GULCH WELLS P2 (331-202-TP072) Client Sample ID for reference onl Sample Event: 202203180056 Sample type: Sample ID

SJ.

**PWSID** 

Clip Code

Sample Date & Time Matrix

03/15/22 1059

Sample Point ID:

Static ID:

TPH 8015 Diesel and Motor Oil **Analysis Requested** Prep Method **EPA 3550B** 

SW 8015B

Method

C

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS Date @2-(8-22 Time 10-34 S.P. An Acknowledgement of Receipt is requested to attn. Jackie Contreras

Temp 2,5,

Page 1 of 1

Time (3.54 Time 17:36

3/18

Date

Sample Control

Date 3/15

Sample Control ( ) AE (TNE)

Relinquished by:

Time (3:54

Date 3/

Page 2 of 14

REPORT 10: 22C225/50 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Relinquished by: Received by:

Received by: Page 16 of 28 pages

REPORT ID: 22C225

Reference: Addendum SM02.11.2

Form: SM02F1

Type of I	• • • • • • • • • • • • • • • • • • • •		Airbill / Tracl	king Number	Recipient JHOWIN TAMORA		
□ Fedex □ UPS □ GSO	□ Others						
☐ EMAX Courier ☐ Client De	livery	Ц			Date 3/18/22	Time 13:54	
ÇOC INSPECTION	,						
Client Name	Client PM/FC		☐ Sampler Name	Sampling Date/Time	□ Sample ID	Matrix	
☑ Address	Tel # / Fax #		Courier Signature	Analysis Required	☐ Preservative (if any)	<b>T</b> AT	
Safety Issues (if any)	☐ High concentrations ex	pected	☐ From Superfund Site	☐ Rad screening required			
Note:			•				
-				·			
PACKAGING INSPECTI	ON					***************************************	
	Z Cooler		□ Вох	□ Other			
Container * Correction	☐ Custody Seal		☐ Intact				
Packaging factor	Bubble Pack			□ Damaged	<b>D</b> o cc		
-50	,		Styrofoam	□ Popcorn	☐ Sufficient	<b>=</b>	
Temperatures (Cool, ≤6 °C but not frozen)	Z Cooler 1 25/20 °C		oler 2°C	Cooler 3°C	□ Cooler 4°C	Cooler 5°C	
·	□ Cooler 6°C	□ Co	oler 7°C	Cooler 8°C	☐ Cooler 9°C	☐ Cooler 10°C	
Thermometer:	A - S/N		B - S/N	(C-)S/N_210271399	D - S/N	• • • • • •	
Comments: Temperature is o	ut of range. PM was inform	ed IMM	IEDIATELY.				
Note:					1		
DISCREPANCIES		······································			- Marie Vanda (Antonio		
LabSampleID	LabSampleContainerID	Code	ClientSample L	abel ID / Information	Corrective	Action	
1,2	1-8	DI	Jet fuel 5 ind		n8		
		+			100	· · · · · · · · · · · · · · · · · · ·	
1.0	1. 2. 2 6	D10	labels, not in	ω.			
110	1,213-8	DIO	~		<u> </u>		
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						<del>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>	
	<del>                                     </del>	1		1			
-	<del> </del>				2/	AA al-1	
☐ pH holding time requiremen	at for water complex is 15 m	inc W	eter complex for pH and	- 2/1 y 4		1/19 3/12/20	
in pri notating time requiremen	it for water samples is 13 if	11115. VV	ater samples for pri anal	ysis are received beyond 15	minutes from sampling time.		
NOTES/OBSERVATIONS	•			• • • • • • • • • • • • • • • • • • • •			
SAMPLE MATRIX IS DRINKIN	G WATER? □ VES □ NO						
STANT EE MITTIGE IS DIGITALITY	G WAILK: LILS LINO						
***************************************		<del></del>					
					· · · · · · · · · · · · · · · · · · ·		
LEGEND:					☐ Continue to next pa	ge.	
Code Description- Sample Mar	nagement		Description-Sample Man	agement	Code Description-Sample Mana	agement	
(Di) Analysis is not indicated in	COC	D13	Out of Holding Time	•	R1 Proceed as indicated in $\square$ CC	C 🗆 Label	
D2 Analysis mismatch COC v	s label	D14	Bubble is >6mm	. •	R2 Refer to attached instruction		
D3 Sample ID mismatch COC	vs label	D15	No trip blank in cooler		R3 Cancel the analysis		
D4 Sample ID is not indicated	in	D16	Preservation not indicated	in	R4 Use vial with smallest bubble	first	
D5 Container -[improper] [leal			Preservation mismatch CO		R5 Log-in with latest sampling da	and the second s	
D6 Date/Time is not indicated		D18	Insufficient chemical prese	ervative	R6 Adjust pH as necessary		
D7 Date/Time mismatch COC			Insufficient Sample		R7 Filter and preserved as necess	and I	
D8 Sample listed in COC is no			No filtration info for dissol	ved analysis	R8 Dikomed	Chen	
D9 Sample reseived is not liste			No sample for moisture deter	•	R9	00-0-1	
D10) No (nitial/date on correction	<del>-</del> \	D21	sample for moisture deter		R10		
D11 Container count mismatch	ι /	D22 .			RII		
D12 Container size mismatch C	_	D23	,		R11 R12		
REVIEWS:	1//	1 -		-1	7	. 1	
Sample Labeling	JHOWIN /	1.	) SRI	· Chuila	) PM	0/6	
	311812 / 3/1	175	Date	- <del>42177</del>	• •	7 150 100	
Date	- Tinton 1 - 11	y i L	, Date	- Jily	Date	- Juju	

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

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#### **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**

993701

### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22C225

#### CASE NARRATIVE

Client: EUROFINS EATON ANALYTICAL

Project: 993701

SDG : 22C225

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 03/18/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSC029WB - 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. DSC029WL/DSC029WC were within LCS limits. 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 22C219-01M/22C219-01S. 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

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 EXTRACTION

	· FIROFINS FALON ANALY LICAL							, or a co	. 25055
Project : 993701	1701							Instrumen	Instrument ID : D5
		15 15 16 11 11 11 11 11	                   	:=====================================	======================================				
i jent	Laboratorv	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID		Moist	DateTime	DateTime	Data FN	Data FN	Betch	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 1 1 1 1 1 1 1 1	: : : : : :			
MRI K1U	DSC029WB	•	NA	03/22/2218:29	03/21/2210:15	LC21100A	LC21098A	22DSC029W	22DSC029W Method Blank
210	IM620080	•	AN	03/22/2218:47	03/21/2210:15	LC21101A	LC21098A	22DSC029W	22DSC029W Lab Control Sample (LCS)
100 JW	DSC02360	-	NA	03/22/2219:05	03/21/2210:15	LC21102A	LC21098A	22DSC029W	22DSC029W LCS Duplicate
02203180055	C225-01	_	NA	03/22/2221:14	03/21/2210:15	LC21109A	LC21098A	22DSC029W	22DSC029W Field Sample
02203180056	C225-02	•	NA	03/22/2221:33	03/21/2210:15	LC21110A	LC21098A	22DSC029W	22DSC029W Field Sample

### **SAMPLE RESULTS**

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 03/15/22 10:33

Lab Samp ID: 22C225-01 Dilution Factor: 1
Lab File ID: LC21109A Matrix: WATER
Ext Btch ID: 22DSC029W % Moisture: NA
Calib. Ref.: LC21098A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.027	0.014	
Motor Oil	ND	0.054	0.027	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.493	0.540	91	60-130
Hexacosane	0.152	0.135	113	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 : 930ml Final Volume : 5ml
Prepared by : POreto Analyzed by : SDeeso

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 03/15/22 10:59

Lab Samp ID: 22C225-02
Lab File ID: LC21110A
Ext Btch ID: 22DSC029W
Calib. Ref.: LC21098A
Dilution Factor: 1
Matrix: WATER
% Moisture: NA
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	0.446	0.495	90	60-130
Hexacosane	0.146	0.124	118	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 : 1010ml Final Volume : 5ml

Prepared by : POreto Analyzed by : SDeeso

### **QC SUMMARIES**

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

\_\_\_\_\_\_

Client : EUROFINS EATON ANALYTICAL Date Collected: 03/21/22 10:15

Date Received: 03/21/22

Project : 993701 Batch No. : 22C225 Sample ID : MBLK1W Date Extracted: 03/21/22 10:15 Date Analyzed: 03/22/22 18:29

Lab Samp ID: DSC029WB Dilution Factor: 1

Lab File ID: LC21100A Matrix: WATER Ext Btch ID: 22DSC029W % Moisture: NA Instrument ID: D5 Calib. Ref.: LC21098A

\_\_\_\_\_

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.025 0.050	0.012 0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.403	0.500 0.125	81 109	60~130 60~130

\_\_\_\_\_\_

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml

: POreto Prepared by

Analyzed by : SDeeso

#### EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO.

METHOD

: 993701 : 22c225 : 3520c/8015B

MATRIX DILUTION FACTOR: 1

: WATER

1

% MOISTURE:NA

SAMPLE ID : MBLK1W

LCS1W

LCD1W

1

LAB SAMPLE ID : DSC029WB

DSC029WL

DSC029WC

LAB FILE ID : LC21100A

LC21101A

LC21102A

DATE PREPARED : 03/21/22 10:15

03/21/22 10:15

03/21/22 10:15

03/22/22 18:47

03/22/22 19:05

DATE ANALYZED : 03/22/22 18:29 PREP BATCH : 22DsC029W

22DSC029W

22DSC029W

CALIBRATION REF: LC21098A

LC21098A

LC21098A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.48	99	2.50	2.41	96	3	50-130	30
		=========	=========	= = = = = = = = = = = = = = = = = = =	=========	=========	=======	=======		
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.500 0.125	0.450 0.143	90 114	0.500 0.125	0.421 0.146	84 117		60-130 60-130	

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

#### EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT PROJECT : EUROFINS EATON ANALYTICAL

BATCH NO.

: 993222

METHOD

: 22C219 : 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202203160673

202203160673MSD

LAB SAMPLE ID : 22C219-01

22C219-01S

LAB FILE ID : LC21103A

DATE PREPARED : 03/21/22 10:15

LC21104A

LC21105A 03/21/22 10:15

DATE ANALYZED : 03/22/22 19:24 PREP BATCH : 22DSC029W

03/21/22 10:15

202203160673MS

03/22/22 20:00

03/22/22 19:42

22DSC029W

CALIBRATION REF: LC21098A

22DSC029W

22C219-01M

LC21098A

LC21098A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.78	3.04	110	2.65	2.77	105	9	50-130	30
	=======================================	========		======	========		:=======			:======================================
		SpikeAmt	MSResult	MSRec	SpikeAmt	MSDResult	MSDRec		QCLimit	
SURROGATE PARAMETERS		(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)		(%)	
										•
Bromobenzene		0.555	0.539	97	0.530	0.498	94		60-130	
Hexacosane		0.139	0.159	115	0.132	0.138	104		60-130	
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PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate