

ACCREDITED

CERTIFICATE #'s 5990.01 & 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
06/25/2022

EUROPINS ATON
ANALYTICAL, LLC

Report: 1000369 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.



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

Enterococc		I		www.eu
Enteroocci	Test(s)	Method(s)	Potable	Waste
Escherichia coli	1631(3)	wiethou(s)	Water *	Water
Escherichia coli	Enterococci	Enterolert	Х	Х
CENUMERATION SM 9221 F				
Fecal Coliform (PiA and Enumeration)			Х	
Enumeration Enumeration Enterococci	7			
Entimetation			х	x
Enterococc SM 9/230 B		E (MTF/EC)		
Heterotophic Bacteria	Fecal Streptococci and	OM 0000 D		
Heterotrophic Bacteria	Enterococci	SM 9230 B	Х	Х
Legionella		SM 9215 B	¥	
Desire				
Pseudomonas aeruginosa	Legionella		^	
Total Coliform (P/A and Enumeration) Total Coliform, Total Coliform, Total Coliform with Chlorine Present Total Coliform E. odi (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure) Total Microcystins and Nodularins Yeast and Mold 12,3-Trichloropropane (TCP) at 5 PPT 1,4-Dioxane EPA 522 x 2,3,7,8-TCDD Modified EPA 1613 B X	Pseudomonas aeruginosa		x	
Enumeration		Pseudalert	n	
Entumeration Gezins sm ezir to	Total Coliform (P/A and		v	v
Coliform with Chlorine Present Total Coliform/E. coli (P/A and Enumeration, Ideax Colliert, Ideax Colliert 18, Colisure) Total Microcystins and Nodularins EPA 546 X Yeast and Mold SM 9610 X	Enumeration)	9221B, SM 9221 C	^	^
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Total Microcystins and Nodularins EPA 546		SIM 9223	Х	
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 EPA 350.1, Ammonia SM 4500-NH3 x Ammonia SM 4500-NH3 x x Asbestos EPA 350.1, x x Asbestos EPA 100.2 x x Bicarbonate Alkalinity as HCO3 SM 2330 B x x BOD/CBOD SM 5210 B x x Bromate *LCMS-2447 x x Carbonate as CO3 SM 2330 B x x Chemical Oxygen Demand EPA 410.4, SM 5220D x x Chlorine Dioxide EPA 410.4, SM 520D x x Chlorine Free, Combined, Total Residual, Chloramines SM 4500-CLO2 x		EPA 546	Х	
1,2,3-Trichloropropane		0110010		
TCP) at 5 PPT	Yeast and Mold	SM 9610	Х	
TCP) at 5 PPT	1007:11	04.001.5044		
1,4-Dioxane			¥	
Acrylamide	(TCP) at 5 PPT		^	
Acrylamide	1,4-Dioxane	EPA 522	Х	
Acrylamide				
Acrylamide	2,3,7,8-TCDD		Х	
Algal Toxins/Microcys in	A on d===:d=			
Alkalinity SM 2320B				
Ammonia	Algal Toxins/Microcys in	+ LCMS 3570	Х	
Ammonia	Alkalinity	SM 2320B	Х	Х
Ammonia		FDΔ 350 1		
H	Ammonio			.,
Asbestos	Ammonia			X
Bicarbonate Alkalinity as HCO3				
BODI/CBOD	Asbestos	EPA 100.2	X	Х
BODI/CBOD	Bicarbonate Alkalinity as	SM 2330 B		
BOD/CBOD			Х	Х
Bromate		SM 5210 B		v
Carbonate as CO3				^
Carbonyls EPA 556 X X Chemical Oxygen Demand EPA 410.4, SM 5220D Chlorinated Acids EPA 410.4, SM 5220D Chlorinated Acids PABIN Test Chlorine Dioxide Chlorine Dioxide 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 Cyanide (Free) SM 4500-CN G X X Cyanide (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 Oxygen SM 4500-C G X EDB/DCBP/TCP EPA 504.1 X Endothall EPA 548.1, †(LCMS-24445) X Fluoride SM 4500-C X X Glyphosate and AMPA †LCMS-3618 X				
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Total Residual, Chloramines	Chloring Free Combined			
Chloramines		SM 4500-CI G	v	
Color	· ·		^	
Conductivity				
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EDTA and NTA	I	EPA 001.1	Х	
Endothall		+ WC_2/45/	¥	
+(LCMS-2445)	EDIA GIIGINIA		^	
CLCMS-2445 Fluoride	Endothall		x	
Glyphosate				
Glyphosate	Fluoride	SM 4500F C	X	X
Glyphosate and AMPA + LCMS-3618 x				
Orosa Aipria anu Orosa dela EMA 900.0 X X				U
	Oross Alpria and Gross Beta	EPA 900.0	X	X

s.com/Eaton		D-4-11	1016-
Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	х	х
Hardness	SM 2340 B	Х	Х
Hexavalent Chromium	EPA 218.6,	Х	Х
Hexavalent Chromium	EPA 218.7,	X	
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	x	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			
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 537, EPA 537.1	х	
PPCP and EDC	+LCMS-2443	Х	
pH	EPA 150.1 SM 4500-H+ B	x	х
Phenolics – Low Level	⁺ WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	х
Phenylurea Pesticides/Herbicides	+LCMS-2448	х	
Radium-226, Radium-228	GA Tech (Rad- 2374)	х	
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	X	Х
Surfactants	SM 5540C	X	Х
Taste and Odor	SM 6040 E	Х	
Total Organic Carbon	SM 5310 C	Х	Х
Total Phenols	EPA 420.1		Х
Total Phenols	EPA 420.4	X	Х
Triazine Pesticides and their Degradates	+LCMS-3617	X	
Turbidity	EPA 180.1	Х	Х
Uranium by ICP/MS	EPA 200.8	Х	
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 #: 1000369 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 20**, **2022** at **1501**. 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
202204200846	MOANALUA WELLS (331-223-TP202)	04/18/2022 1112
	(SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil	
202204200847	TB:MOANALUA WELLS (331-223-TP202)	04/18/2022 1112
	(UB)Gas Fraction Hydrocarbons	

Test Description

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Eaton Analytical

CHAIN OF CUSTODY RECORD

(none

(check for yes) ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...) O = Other - Please Identify list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample) 10:51 (check for yes) COMMENTS TIME SAMPLER X (check for yes), OR NON-COMPLIANCE SAMPLES X Temp Blank 04.20.20.22 April 18, 2022 4/19/2027 SAMPLES REC'D DAY OF COLLECTION? SAMPLES CHECKED AGAINST COC BY: REGULATION INVOLVED: SAMPLES LOGGED IN BY DATE No Ice SEE ATTACHED BOTTLE ORDER FOR ANALYSES SL = Sludge METHOD OF SHIPMENT: Pick-Up / Walk-In / (FedEx)/ UPS / DHL / Area Fast / Top Line / Other. SO = Soil Wet Ice Honolulu Board of Water Supply Honolulu Board of Water Supply BW = Bottled Water SW = Storm Water (check for yes) COMPLIANCE SAMPLES Requires state forms Thawed °C (Compliance: 4 ± 2 °C) °C (Compliance: 4 ± 2 °C) Type of samples (circle one): ww = Waste Water SEAW = Sea Water Red Hill weekly × 3.7 J. PERTNER ATAG GJEI CFW = Chlor(am)inated Finished Water PRINT NAME 1 day L. Bailey L. Bailey EUROFINS EATON ANALYTICAL USE ONLY. CONDITION OF BLUE ICE: Frozen ATAG GJEI Colton / No. California / Arizona 2 day CFW SAMPLE TEMP RECEIVED AT: FW = Other Finished Water · XISTAM RED HILL STD_ 1 wk X 3 day LOGIN COMMENTS: SAMPLE GROUP: H10000331-223 PROJECT CODE: CLIENT LAB ID Monrovia * MATRIX TYPES: RSW = Raw Surface Water RGW = Raw Ground Water COC ID: SAMPLE ID TAT requested: rush by adv notice only 750 Royal Oaks Drive, Suite 100 BWS HONOLULU 800 566 LABS (800 566 5227) Moanalua Wells Monrovia, CA 91016-3629 TO BE COMPLETED BY SAMPLER. COMPANY/AGENCY NAME: Phone: 626 386 1100 Fax: 626 386 1101 EEA CLIENT CODE: RELINQUISHED BY: RELINQUISHED BY TIME RECEIVED BY: RECEIVED BY: **BJGMAS** SAMPLED BY 04/18/22 **BTAG** SAMPLE

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PAGE

Prenared Bv

of Coolers

Code

• eurofins

seen snalytical

Note: Sampler Please return this paper with your samples

Client ID: HONOLULU

Red-Hill Expanded List (Albuquerque+)

Project Code: RED-HILL Bottle Orders

Group Name: PO#/JOB#: Description:

AIEA WELLS PUMPS 1&2 (260) - 1

C20525101 exp 05312023

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

Created Date & Time: 1/3/2022 12:06:33AM

(626) 386-1100 FAX (866) 988-3757 750 Royal Oaks Drive, Sulte 100 Monrovia, California 91016-3629

Created By: - [AutoGenerated] STG: Bottle Orders Deliver By: 02/02/2022 Ice Type: G

Ship Sample Kits to Pre Registered

Honolulu Board of Water Supply

530 South Beretania Street

Attn: Ron Fensternacher Phone: 808-748-5841

Fax: 808-550-5572

Honolulu, HI 96843

Chemistry Lab

Honolulu Board of Water Supply 630 South Beretania Street Send Report to

Public Service Bldg." Room 308 Honolulu, HI 96843 Attr: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018

Honolulu Board of Water Supply Public Service Bidg." Room 308 Honolulu, HI 96843 630 South Beretania Street Billing Address

Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018 UN DOT#

Total

9

Bottle Qty - Type [preservative information] (6 →1L amber glass [1 ml Thio 8%] TPH 8015 Diesel and Motor OILC, TPH 8015 Jet Fuel 5_C, TPH Sum Bottles: 11

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

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

NEA-WELLS PUMPS 182 (250) (331-203-TP400) Comments

@504MOD TB C, 8015 Gas_C TB

Sum Tests: 3

8015 Jet Fuel 8 C

Sample Tests

8015 Gas C

SAMPLER: Four 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Six 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES.

SHIPPING:

fravel Blanks - TBA/NTBE, VOASDWA - Prepare TBs in the VOA LAB.

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

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

Page 6 of 37 pages

	analysis or not.		N/A			(9		al = .C)	nal =		Results:		Ilonal clients: Bottle # None/<6 >6mm Test		TIME	100	(5.6)	TIME	
RECORD	will determine whether to proceed with Yes/No	\	zen Thawed			ollection, within 8 hours		'C) (Corr.Factor 'C) (Final =	'C) (Corr.Factor 'C) (Final =	ction)	Expiration Date		See below): Itional bottles) s using 40 ml vials, Interna		DATE		04.20.2025	DATE	
I OF CUSTODY	et the ASMs know. ASMs	°C) (Final = 3.7 °C)	: Frozen Partially Frozen	/ Top Line / Other:	sollection)	ce the same day as sample co	ection)	·C) (Final - ·C) 2 = (Observation=	·C) (Final = C) 4 = (Observation=	d after 24 hrs of sample collec	oe: 0 - 14	ate:Results	Samples with Headspace (see below): kadon Internal COFC for additional bottle As, 556, 536, Anatoxin, LCMS methods using 40 ml vis Samp ID Bottle # Nonel'48 >6mm Test		- ENTRY CARRETTE	COMPANIE	Eurofins Ealon Analytical	COMPANYITILE	Eurofins Eaton Analytical
INTERNAL CHAIN OF CUSTODY RECORD	SAMPLE TEMP RECEIVED: Note: f samples are out of temperature range, SAMPLES REC'D DAY OF C	4.6 °C) (Corr.Factor -0.3	No Ice CONDITION OF ICE: Frozen	FedEx) UPS / DHL / Area Fast / Top Line / Other.	AP) (If received after 24 hrs of sample of	ot frozen (can be ≥10°C if received on	(If received after 2 hours of sample collection)	1 = (Observation* C) (Corr.Facior	3 = (Observation= 'C) (Corr.Fecior 'C	oe between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	Lot Number:pH str	safe. Lot No.: Expiration Date:	A and Radon No Samples with Headspace: Idspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exampl from headspace concerns: Methods 515.4, HAA(6281,552), 505, SPME; @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: Nonel-66 Nonel-66 Samp ID Bottle # Nonel-66	WW Carrier and the	pace (i.e. potential sampling errors):	PRINT NAME	() PENTIVER	PRINT NAME	
្នំ eurofins	EEA Folder Number: [UBYL]	IR Gun ID = $\frac{6999}{1000}$ (Observation=	ynthetic	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria: 1) Chemistry: >0, s 6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)	2) Microblology, 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	If out of temperature range for both Chemistry and Microbiology semples and temperature does not confirm, then meseure the person of neority and temperature of the	quadrants	4 Dioxin (1613 or 2,3,7,8 TCDD); must be	5) pH Check. Manufacturer:	6) Çhlorine check, Manufacturer: Sansafe. Lot No.:	VO, Hea	SempiD Bottle # mm >omim less	Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	SIGNATURE	RECEIVED BY:	SIGNATURE	SAMPLES CHECKED AGAINST GOC BT.

	ith analysis or not.		N/A			urs)		(C) (Final = C)		Results:	[national clients: ID Bottle # None/<6 >6mm Test			TIME	10:51	TIME	
RECORD	termine whether to proceed w	`	zen Thawed			llection, within 8 ho		(C) (Corr.Factor (C)		Expiration Date		see below): tional bottles) s using 40 ml vials, internati	<u> </u>		DATE	04.202022	DATE	
OF CUSTODY	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) (Final = $\frac{4.9}{0.0}$ °C)	Frozen Partially Frozen	Top Line / Other:	ollection)	se the same day as sample co	iction)	(c) (Final *	ved after 24 hrs of sample collec	pH strip type: 0 - 14 or	ite: Kesulis	Samples with Headspace (see below): adon internal COFC for additional bottlis, 556, 536, Anatoxin, LCMS methods using 40 ml vi Samp ID Bottle # None/6 >6mm Test			COMPANYITILE	Eurofins Ealon Analytical	COMPANYITITLE	Eurofins Eaton Analylical
INTERNAL CHAIN OF CUSTODY RECORD	SAMPLE TEMP RECEIVED: Note: if samples are out of temperature range, is SAMPLES REC'D DAY OF C	°C) (Corr.Factor -0.3	No Ice CONDITION OF ICE: Frozen	(FedEx) UPS / DHL / Area Fast / Top Line / Other:	AP) (If received after 24 hrs of sample c	ot frozen (can be ≥10°C If received on io	(If received after 2, hours of sample collection)	1 = (Observation* 'C) (Corr.Factor	be between 0-4 °C, not frozen (if receive	Lot Number:pH strip	safe. Lot No.: Expiration Date:	No Samples with Headspace: ace Documentation (use additional VOC and Radon Internal COFC for additional bottles) as: Methods 615.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mivals, International clients: Samp ID Bottle # Nonel/6 >6mm Test Samp ID Sam		pace (i.e. potential sampling errors):	PRINT NAME	() SELTIVER	PRINT NAME	
និទ្ធក្នុ eurofins	EEA Folder Number: Laton Analytical	IR Gun ID = 649A (Observation= 5.2	TYPE OF ICE: Real Synthelic N	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria: () Chemistry: >0, s6°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)	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 temperature of each quadrant and record each temperature of the quadrants	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)	5) pH Check. Manufacturer:	6) Chlorine check, Manufacturer: Sansafe, Lot No.:	adon Headsp m headspace concer	mm	Speed relimination	Note Sample IDS Which Have dissimilar neaded	RECEIVED BY:	RIGNAPURE	SAMPLES CHECKED AGAINST BGC BY:

QA FO.FRMS504 (9.28.21) Ver 9

	inalysis or not.		N/A			. (5		İ	(C) = a-		Results:		lonal clients:	Bottle # None/<6 >6mm Test			TIME	15:01	TIME		
RECORD	s will determine whether to proceed with s Yes / No	`	ozen Thawed			sollection, within 8 hours			*C) (Corr.Factor 'C) (Final =	ection)	Expiration Date	(see helow):	ditional bottles)	DI qmas Samp ID			DATE	04.20.2022	DATE		
JOF CUSTODY	let the ASMs know. ASM: OLLECTION?	°C) (Final = 4.1 °C)	E: Frozen Partially Frozen	/ Top Line / Other:	collection)	ice the same day as sample o	iection)	(5.	·C) (Final = ·C) 4 = (Observation=_	ed after 24 hrs of sample colle	pH strip type: 0 - 14 oratlon Date: Results	Milh Headenare (see helow):	Radon Internal COFC for ad	Samp ID Bottle # Mm			COMPANYITICE	Eurofins Ealon Analytical	COMPANYITILE	Eurofins Eaton Analylical	
INTERNAL CHAIN OF CUSTODY RECORD	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, SAMPLES REC'D DAY OF G	4.4 °C) (0	CONDITION OF ICE: Frozen	/ FedEx/ UPS / DHL / Area Fast / Top Line / Other:	AP) (if received after 24 hrs of sample collection)	ot frozen (can be ≥10°C if received on	If received after 2, hours of sample col)* (Observation" (O' (Corr,Feelor	3 = (Observation= 'C) (Corr.Factor 'C	e between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	Jumber:Expir		No Samples with Headspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)	Exampt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, See, 33e, Anatoxin, Lons manner and Semp ID Bottle # Nonel-Ke Semm Test Samp ID Bottle # Manner Semp ID Bottle # Nonel-Ke Semm Test Semp ID Bottle # Manner Test	-	"(some profile profile).	ace (i.e. potential samping cross)	P. PERTAPP			
နှံ့နှံ့ eurofins	EEA Folder Number: (MC712)	IR Gun ID = CYGIN (Observation=	TYPE OF ICE: Real Synthetic No	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria: 1) Chemistry: >0. s 6°C, not frozen (NELA	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 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 and record each temperature of the	quadrants	4 Dloxin (1613 or 2,3,7,8 TCDD): must be	5) pH Check, Manufacturer: Lot No.:	מ) כוווסווופ כוופטיי אומוימימים מיידי	7) YOA and Nadon 7) Headspace: Headspace Docur	Exempt from headspace concerns: Methods Samp ID Bottle # Nonel/6 >6mm Test Sam			ave dissimilar neadsp	RECEIVED BY:	Bullynois	SAMPLES CHECKED ADAINST COC BY:	

QA FO-FRMS504 (9.28.21) Ver 9



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.



After printing this label:

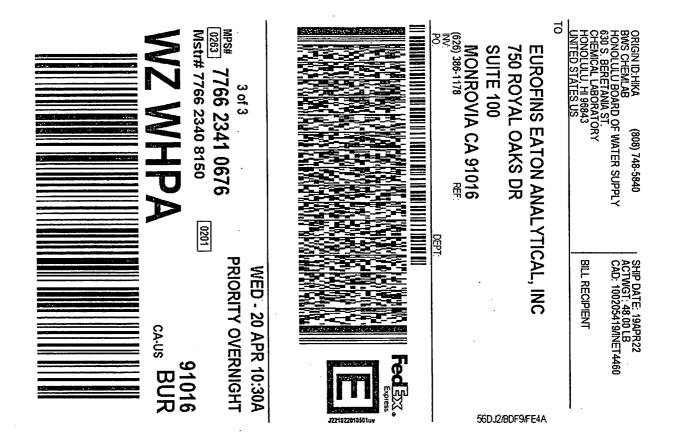
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

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

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

1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 1000369 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

Results for Gas, Diesel and Motor Oil are submitted by Emax Laboratories



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

Report: 1000369 Project: RED-HILL

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

- EMAX

Samples Received on: 04/20/2022 1501

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: 1000369 Project: RED-HILL

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

- EMAX

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

1 800 566 LABS (1 800 566 5227)

Honolulu Board of Water Supply

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

Samples Received on: 04/20/2022 1501

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
MOANAL	UA WELLS	331-223-T	P202) (20220420	0846)		Sam	pled on 04/18	/2022 111	2
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
04/22/22	04/22/22 17:09			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
04/25/22	04/27/22 16:07			(SW 8015B)	TPH Diesel	ND	mg/L	0.027	1
04/25/22	04/27/22 16:07			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.055	1
TB:MOAI	NALUA WE	LLS (331-22	3-TP202) (20220	<u>4200847)</u>		Sam	pled on 04/18	/2022 111:	2
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
04/22/22)4/22/22 17:46			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



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

Date: 04-29-2022

EMAX Batch No.: 22D211

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 1000369

Enclosed is the Laboratory report for samples received on 04/21/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202204200846	D211-01 04/18/22	WATER	TPH GASOLINE
			TPH DIESEL & MOTOR (
	DD44 0D 07 (4D (22	LIATED	TOU CACOLINE

202204200847

D211-02 04/18/22

WATER

OII.

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

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

Date: 4/21/2022

12022

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 1000369 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 Provide in each Report the Specified StateCertification # and

Samples from: HAWAII

Fax: 310-618-0818

Phone: 310-618-8889

PWSID Clip Code Sample Date & Time Matrix Client Sample ID for reference on! Report Due: 04/25/2022

GS

Static ID:

Sample Point ID:

Facility ID:

MOANALUA WELLS (331-223-TP202)

202204200846

Sample ID

Folder #: 1000369 Sample Event:

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

വട്ട **PWSID** Static ID: Clip Code Sample Date & Time Matrix 30 Sample Point ID: 04/18/22 1112 Facility ID: Client Sample ID for reference onl TB:MOANALUA WELLS (331-223-TP202) Sample Event: 202204200847 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 4/21/2/1ime 11:43

Date

Sample Control

Relinquished by:

Received by:

Time Time

Date Date

Sample Control

Relinquished by:

@ 0.0/11.0 Temp: Q 0.3/0.5

G: 10.2

Page 2 of 3

REPORT ID: 22D211750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Page 2 of 22

Page 17 of 37 pages

Received by:



REPORT ID: 22D211

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

Page 3 of 22 Page 18 of 37 pages

Type of Delivery			Airbill / Tracki	ing Number	ECN 22021				
<u> </u>	□ Others	-	7,		Recipient Alan Ram	Lu			
□ EMAX Courier ☐ Client Deliv		 			Date 04/21/22	Time 11: 43			
COC INSPECTION .	<u> </u>					-			
Client Name	Client PM/FC		·□ Sampler Name	Sampling Date/Time	☑ Sample ID	D Matrix			
Address	1 Tel # / Fax #		☐ Courier Signature	Analysis Required	Preservative (if any)	Z TAT			
Safety Issues (if any)	☐ High concentrations exp	ected	☐ From Superfund Site	Rad screening required	_ ; recerrative (i. iii.y)				
Note:	E Tilgii concentrations exp	ceted	E From Superfund Site	Li Rad Screening required					
					A				
PACKAGING INSPECTIO)N		:						
Container	Cooler		□ Box	☐ Other		, , , , , , , , , , , , , , , , , , ,			
Condition	/		☐ Intact	☐ Damaged					
Packaging Concection	Custody Seal Bubble Pack Cooler 1 0.5°C		☐ Styrofoam	Popcom	☐ Sufficient				
1 4711/111 1 1/1/	1/Cooler 10:3/0.5°C	1	oler 2 0.8/1.0°C	□ Cooler 3 °C					
Temperatures (Cool, ≤6 °C but not frozen)	Cooler 6°C		oler 7"C						
Thermometer:	A) S/N 2105 83479		B - S/N		□ Cooler 9°C	☐ Cooler 10°C			
Comments: Temperature is out				C-S/N 210271399	D - S/N				
Note:				W000704750000000000000000000000000000000					
DISCREPANCIES									
LabSampleID	LabSampleContainerID	Code	ClientSample La	bel ID / Information	Corrective	Action			
1	4-0	DIO			nx	,			
i	5	DV	TOT FUEL C ICI	ncivded on label,					
<u> </u>	· y	-	not listed on co						
2/	1)	07	two dates on						
ν	11	17 1							
			and 04/18/22	/					
			· · · · · · · · · · · · · · · · · · ·						
					V-Academic residence and a second residence a				
·									
	-								
			are a second	1 1					
				-cu/2/22					
☐ pH holding time requirement	for water-samples is 15 m	ins. W	ater samples for pH analy	sis are received beyond 15 n	ninutes from sampling time.	11/2 4/12/12			
NOTES/OBSERVATIONS:						10 10			
SAMPLE MATRIX IS DRINKING									
OTEN ED PETITION TO DESTRUCT	WHIER. GIES BIO				*	<u></u>			

				· · · · · · · · · · · · · · · · · · ·					
LEGEND:	1100-200-0				☐ Continue to next pag	ge.			
Code Description-Sample Mana	gement	Code	Description-Sample Mana	gement	Code Description-Sample Mana	gement			
D1 Analysis is not indicated in		D13	Out of Holding Time		R1 Proceed as indicated in CO	F 4			
D2 Analysis mismatch COC vs	label	D14	Bubble is >6mm		R2 Refer to attached instruction				
D3 Sample ID mismatch COC v					R3 Cancel the analysis				
D4 Sample ID is not indicated in	•			n	R4 Use vial with smallest bubble	first			
D5 Container -[improper] [leaki		Preservation mismatch CO		R5 Log-in with latest sampling da					
				rvative	R6 Adjust pH as necessary				
D7 Date/Time mismatch COC vs label			Insufficient Sample		R7 Filter and preserved as necessary	d [1 -1 .			
D8 Sample listed in COC is not received			No filtration info for dissolv	ved analysis	R8 Dranec	* (lent'			
			No sample for moisture determ	5	R8 DAVING CHEN				
			,		R10				
D10 No initial/date on corrections in COC(label) D11 Container count mismatch COC vs received D22					R11	*			
D12 Container size mismatch CC	•	D24		$\overline{\Omega}$	R12				
REVIEWS: JUCKYNE //									
Sample Labeling	SIGHTRAMS CERCLE	\mathcal{L}	SRF	Ugirla	PM	116			

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

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.
Е	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

1000369

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

SDG#: 22D211

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1000369

SDG : 22D211

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 04/21/22 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. VG39D09B - 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. VG39D09L/VG39D09C 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. For this SDG, one(1) set of MS/MSDS was analyzed. Gasoline was within MS QC limits in D210-01M/D210-01S. 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.

REPORT ID: 22D211

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

WATER TY Dilution % Analysis Extraction Sample Calibration Factor Moist DateTime DateTime Data FN Data FN ED22003A 1 NA 04/22/2212:14 04/22/2212:51 ED22006A ED22003A 1 NA 04/22/2213:28 04/22/2213:28 ED22007A ED22003A 1 NA 04/22/2217:09 04/22/2217:46 ED22013A ED22003A 1 NA 04/22/2217:46 04/22/2217:46 ED22014A ED22003A	Client	Client : EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO.	: 220211
MATER Laboratory Dilution % Analysis Extraction Sample Calibration F Sample ID Factor Moist DateTime DateTime Data FN Bata FN B C4/22/2212114 04/22/221214 ED22005A ED22003A 2039D09L 1 NA 04/22/2212151 04/22/2212151 ED22006A ED22003A 2039D09C 1 NA 04/22/2217:09 04/22/2213:28 ED22007A ED22003A 2045C D211-01 1 NA 04/22/2217:09 04/22/2217:09 ED22013A ED22003A 2047C D211-01 1 NA 04/22/2217:04 ED22013A ED22003A 2047C D211-02 1 NA 04/22/2217:04 ED22014A ED22003A 2047C D211-02 1 NA 04/22/2217:04 ED22014A ED22003A 2047C D211-02 1 NA 04/22/2217:04 04/22/2217:05 ED22014A ED22003A 2047C D211-02 1 NA 04/22/2217:04 04/22/2217:04 ED22014A ED22003A 2047C D211-02 1 NA 04/22/22177:04 ED22014A ED22003A 2047C D211/20177 ED22014A ED22003A 2047C D211/20177 ED22014A ED22014A ED2	Project	: 1000369								Instrume	Instrument ID : GCTO39
Laboratory Dilution % Analysis Extraction Sample Calibration Fample ID Factor Moist DateTime DateTime DateTime Date FN E DESCOGS); 					======================================	ER		II II II II II II II II II	ii 	
Sample ID Factor Moist DateTime DateTime DateFile Date FN E E VG39D09B 1 NA 04/22/2212:14 04/22/2212:14 ED22005A ED22003A 2039D09L 1 NA 04/22/2212:51 04/22/2212:51 ED22006A ED22003A 2039D09C 1 NA 04/22/2217:09 04/22/2213:28 ED22007A ED22003A 202003A 20211-01 1 NA 04/22/2217:09 04/22/2217:09 ED22013A ED22003A 2022003A	Client		Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibratio	in Prep.	
VG39D09B 1 NA 04/22/2212;14 04/22/2212;14 ED22005A ED22003A 2 VG39D09B 1 NA 04/22/2212;14 04/22/2212;14 ED22005A ED22003A 2 VG39D09C 1 NA 04/22/2217;59 04/22/2213;28 ED22007A ED22003A 2 D211-01 1 NA 04/22/2217;09 04/22/2217;09 ED22013A ED22003A 2 D211-02 1 NA 04/22/2217;46 04/22/2217;46 ED22014A ED22003A 2 D211-02 1 NA 04/22/2217;46 D4/22/2217;46 ED22014A ED22003A 2 D211-02 1 NA 04/22/2217;46 D4/22/2217;46 ED22014A ED22003A 2 D22003A 2 D22003	Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
VG39D09B 1 NA 04/22/2212:14 04/22/2212:14 ED22005A ED22003A 2 VG39D09L 1 NA 04/22/2212:51 04/22/2212:51 ED22006A ED22003A 2 VG39D09C 1 NA 04/22/2213:28 04/22/2213:28 ED22007A ED22003A 2 D211-01 1 NA 04/22/2217:09 04/22/2217:09 ED22013A ED22003A 2 D22003A 2 D211-01 1 NA 04/22/2217:46 04/22/2217:46 ED22013A ED22003A 2 D22003A	1 1 1 1		1 1 1 1 1 1 1 1 1 1		1111	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		:		
VG39D09L 1 NA 04/22/2212:51 604/22/2212:51 ED22006A ED22003A 2 VG39D09C 1 NA 04/22/2213:28 04/22/2213:28 ED22007A ED22003A 2 00846 D211-01 1 NA 04/22/2217:09 04/22/2217:09 ED22013A ED22003A 2 00847 D211-02 1 NA 04/22/2217:46 04/22/2217:46 ED22014A ED22003A 2	MBLK1W		VG39D09B	,-	NA	04/22/2212:14	04/22/2212:14	ED22005A	ED22003A	22VG39D09	22VG39D09 Method Blank
VG39D09C 1 NA 04/22/2213:28 04/22/2213:28 ED22007A ED22003A 2 00846 D211-01 1 NA 04/22/2217:09 04/22/2217:09 ED22013A ED22003A 2 00847 D211-02 1 NA 04/22/2217:46 04/22/2217:46 ED22014A ED22003A 2	LCS1W		VG39D09L	-	NA	04/22/2212:51	04/22/2212:51	ED22006A	ED22003A	22VG39D09	22VG39D09 Lab Control Sample (LCS)
00846 D211-01 1 NA 04/22/2217:09 04/22/2217:09 ED22013A ED22003A 2 00847 D211-02 1 NA 04/22/2217:46 04/22/2217:46 ED22014A ED22003A 2	LCD1W		VG39D09C	-	NA	04/22/2213:28	04/22/2213:28	ED22007A	ED22003A	22VG39D09	22VG39D09 LCS Duplicate
D211-02 1 NA 04/22/2217:46 04/22/2217:46 ED22014A ED22003A 2	2022042008	978	D211-01	-	NA	04/22/2217:09	04/22/2217:09	ED22013A	ED22003A	22VG39D09	22VG39D09 Field Sample
	2022042008	24.2	D211-02	_	NA	04/22/2217:46	04/22/2217:46	ED22014A	ED22003A	22VG39D09	22VG39DO9 Field Sample

SAMPLE RESULTS

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/18/22 11:12 Project : 1000369 Date Received: 04/21/22

 Project
 : 1000369
 Date Received: 04/21/22

 Batch No.
 : 22D211
 Date Extracted: 04/22/22 17:09

 Sample ID
 : 202204200846
 Date Analyzed: 04/22/22 17:09

Lab Samp ID: D211-01 Dilution Factor: 1
Lab File ID: ED22013A Matrix: WATER

Ext Btch ID: 22VG39D09 % Moisture: NA Calib. Ref.: ED22003A 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 0.0333 0.0400 83 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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/18/22 11:12

Project : 1000369 Batch No. : 22D211 Sample ID : 202204200847 Date Received: 04/21/22 Date Extracted: 04/22/22 17:46

Date Analyzed: 04/22/22 17:46 Lab Samp ID: D211-02 Dilution Factor: 1 Lab File ID: ED22014A Matrix: WATER

Ext Btch ID: 22VG39D09 % Moisture: NA Calib. Ref.: ED22003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY Bromofluorobenzene 0.0331 0.0400 83 60-140

Notes:

H-C Range Parameter C6-C10 Gasoline

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

QC SUMMARIES

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

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

Project : 1000369 Batch No. : 22D211 Sample ID : MBLK1W Date Received: 04/22/22 Date Extracted: 04/22/22 12:14 Date Analyzed: 04/22/22 12:14

Lab Samp ID: VG39D09B Dilution Factor: 1 Lab File ID: ED22005A Matrix: WATER Ext Btch ID: 22VG39D09 % Moisture: NA Calib. Ref.: ED22003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0340 0.0400 85 60-140

Notes:

Parameter H-C Range C6-C10 Gasoline

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 5ml

Prepared by Analyzed by : SCerva : SCerva

REPORT ID: 22D211

Page 12 of 22 Page 27 of 37 pages

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 22D211 METHOD : 5030B/8015B

: 1000369

1

MAIRIX	:	WATER
DILUTION	FACTOR:	1

DILUTION FACTOR: 1
SAMPLE ID : MBLK1W LAB SAMPLE ID : VG39D09B LAB FILE ID : ED22005A

DATE PREPARED : 04/22/22 12:14 DATE ANALYZED : 04/22/22 12:14 PREP BATCH : 22VG39D09 CALIBRATION REF: ED22003A

% MOISTURE:NA LCS1W LCD1W

VG39D09L VG39D09C ED22006A ED22007A 04/22/22 12:51 04/22/22 13:28 04/22/22 12:51 04/22/22 13:28 22VG39D09 22VG39D09 ED22003A ED22003A

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	0.484	97	0.500	0.475	95	2	60-130	30
			=========	=======	.========	========	=======	======	========	======
SURROGATE PARAMETER		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0447	112	0.0400	0.0434	109		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 BATCH NO. METHOD

: 1000367 : 22D210 : 5030B/8015B

MATRIX : WATER

202204200839MS

04/22/22 14:41

% MOISTURE:NA

DILUTION FACTOR: 1 SAMPLE ID : 202204200839

202204200839MSD

LAB SAMPLE ID : D210-01

D210-01M D210-01S

ED22009A

ED22010A

LAB FILE ID : ED22008A DATE PREPARED : 04/22/22 14:04

04/22/22 15:18

04/22/22 15:18

DATE ANALYZED : 04/22/22 14:04 PREP BATCH : 22VG39D09

04/22/22 14:41

22VG39D09

22VG39D09

CALIBRATION REF: ED22003A

ED22003A

ED22003A

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	0.451	90	0.500	0.455	91	1	50-130	30
	=======================================	=========	=========	======	========	-=======		======	:=======	
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0430	108	0.0400	0.0434	109		60-140	•
***************************************		========	========	=======	========	:========	=======		:=======	

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

1000369

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22D211

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1000369

SDG : 22D211

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 04/21/22 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. DSD022WB - 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 DSD022WL. Both opening and closing calibration verifications were within QC limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

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.

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

# ≥0.	SDG NO. : 22D211 Instrument ID : D5	WATER	Dilution % Analysis Extraction Sample Calibration Prep.	Factor Moist DateTime DateTime Data FN Data FN Batch Notes		1 NA 04/27/2214:34 04/25/2210:15 LD27008A LD27004A 22DSD022W Method Blank	04/25/2210:15 LD27009A LD27004A	1 NA 04/27/2216:07 04/25/2210:15 LD27013A LD27004A 22DSD022W Field Sample
# >0.			Jilution			_	_	-
· ii	Client : EUROFINS EATON ANALYTICAL Project : 1000369		Laboratory L	Sample ID	1 1 1 1 1	DSD022WB	DSD022WL	D211-01

SAMPLE RESULTS

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/18/22 11:12

Project : 1000369 Batch No. : 22D211 Sample ID : 202204200846 Date Received: 04/21/22 Date Extracted: 04/25/22 10:15 Date Analyzed: 04/27/22 16:07

Lab Samp ID: 22D211-01 Dilution Factor: 1

Lab File ID: LD27013A Matrix: WATER Ext Btch ID: 22DSD022W % Moisture: NA Calib. Ref.: LD27004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.027 0.055	0.014 0.027	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.413	0.545	76	60-130

89 60-130 0.136 Hexacosane 0.121

Notes:

H-C Range Parameter C10-C24 Diesel Motor Oil c24-c36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 920ml

Prepared by : JMuert Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 04/25/22 10:15

Project : 1000369 Batch No. : 22D211 Sample ID : MBLK1W Date Received: 04/25/22 Date Extracted: 04/25/22 10:15 Date Analyzed: 04/27/22 14:34

Lab Samp ID: DSD022WB Dilution Factor: 1 Matrix: WATER Lab File ID: LD27008A Ext Btch ID: 22DSD022W % Moisture: NA Instrument ID: D5 Calib. Ref.: LD27004A

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	0.392	0.500	78	60-130
Hexacosane	0.103	0.125	82	60-130

Notes:

H-C Range Parameter C10-C24 Diesel 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 Prepared by : JMuert

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 1000369

METHOD

: 22D211 : 3520C/8015B

MATRIX DILUTION FACTOR: 1

: WATER

% MOISTURE:NA

SAMPLE ID : MBLK1W

LAB SAMPLE ID : DSD022WB

LCS1W DSD022WL

DATE PREPARED : 04/25/22 10:15

LAB FILE ID : LD27008A

LD27009A

04/25/22 10:15 04/27/22 14:53

DATE ANALYZED : 04/27/22 14:34 PREP BATCH : 22DSD022W

22DSD022W

CALIBRATION REF: LD27004A

LD27004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.16	86	50-130
=======================================	=========		=======================================		
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.481 0.117	96 94	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample