

ACCREDITED

CERTIFICATE #'s 5890.01 & 5890.02

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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
02/02/2022

Lebel Cank
EUROPINS KATON
ANALYTICAL, LLC

DEB: Debbie L Frank

Project Manager



Report: 979935 Project: RED-HILL

Group: Red-Hill Expanded List (Albuquerque+)

- * Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
- * Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.
- * As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
- * Test results relate only to the sample(s) tested.
- * Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- * This report shall not be reproduced except in full, without the written approval of the laboratory.
- * This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.



STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

^{*} NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA. Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

https://www.eurofinsus.com/Eaton

Test(s) Method(s) Water				WWW.Eui
Enterococi	Tost(s)	Method(s)	Potable	Waste
Escherichia coli	Test(s)	wethou(s)	Water *	Water
Escherichia coli	Enterococci	Enterolert	Y	Y
CEnumeration				
Fecal Coliform (P/A and Enumeration)			X	
Renumeration	,			
Entimeration		(MTF/FC) SM 9221	v	v
Enterococci	Enumeration)	E (MTF/EC)	^	^
Enterococci	Fecal Streptococci and			
Heterotrophic Bacteria		SM 9230 B	X	X
Legionella		OM 0045 D		
Desire				
Pseudomonas aeruginosa	Legionella	Legiolert®	X	
Total Coliform (P/A and Enumeration)	Б .	Idexx		
Total Coliform (P/A and Enumeration)	Pseudomonas aeruginosa	Pseudalert	X	
Enumeration S2218, SM 9221 C	Total Caliform (D/A and			
Total Coliform, Total Coliform with Chlorine Present	· · · · · · · · · · · · · · · · · · ·		х	х
Coliform with Chlorine Present Present		9221B, SM 9221 C		
Coliform with Chlorine Present Present	Total Coliform, Total			
Present	Coliform with Chlorine	01100015	х	х
Total Coliforn/E. coli (P/A and Enumeration, Ideax Colient, Idea		SM 9221 B		
Enumeration, Idexx Colliert, Idexx Colliert 18, Collier				
Idex		CM 0222	v	
Total Microcystins and Nodularins SM 9610 X		31VI 9223	^	
Nodularins				
Yeast and Mold SM 9610 x 1,2,3-Trichloropropane (TCP) at 5 PPT CA SRL 524M-TCP x 1,4-Dioxane EPA 522 x 2,3,7,8-TCDD Modified EPA 1613 B x Acrylamide *LCMS 2440) x Alkalinity SM 2320B x Alkalinity SM 2320B x Ammonia SM 4500-NH3 x Ammonia SM 4500-NH3 x Absestos EPA 350.1, x Asbestos EPA 100.2 x x Bicarbonate Alkalinity as HCO3 SM 2330 B x x Bicarbonate Alkalinity as HCO3 SM 2330 B x x Bromate *LCMS-2447 x x Carbonate as CO3 SM 2330 B x x Carbonate as CO3 SM 2330 B x x Chlorine Dioxide EPA 410.4, SM 5220D x x Chlorine Free, Combined, Total Residual, Chloramines SM 4500-CLO2 x Chlorine, Free, Combined, Total Residual, Chloramines		EPA 546	Χ	
1,2,3-Trichloropropane		011.0010		
TCP	Yeast and Mold	SM 9610	X	
TCP				
CICP) at 5 PP1		CA SRL 524M-	v	
Acrylamide	(TCP) at 5 PPT	TCP	^	
Acrylamide			Х	
Acrylamide	1,1 Dioxano		^	
Acrylamide	2,3,7,8-TCDD		X	
Algal Toxins/Microcystin	_,=,=,=====	1613 B		
Alkalinity	Acrylamide	+LCMS 2440)	X	
Alkalinity	Algal Toxins/Microcystin	+ LCMS 3570	X	
Ammonia				V
Ammonia	Alkallility		^	^
H				
Asbestos	Ammonia	SM 4500-NH3		Х
Bicarbonate Alkalinity as		H		
Bicarbonate Alkalinity as	Ashestos	FPA 100 2	Y	Y
HCO3			^	^
BOD/CBOD	-	SIVI 2330 B	X	x
Bromate				
Carbonate as CO3 SM 2330 B x x Carbonyls EPA 556 x x Chemical Oxygen Demand EPA 410.4, SM 5220D x Chlorinated Acids EPA 515.4 x Palin Test Chlordio X Plus, SM 4500-CLO2 D x Chlorine, Free, Combined, Total Residual, Chloramines SM 4500-CL G x Conductivity EPA 120.1, SM 2510B x Conductivity EPA 120.1, SM 2510B x Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated SM 2330 B x Cyanide (Amenable) SM 4500-CN G x x Cyanide (Total) EPA 335.4 x x Cyanogen Chloride (Screen) (WC-24467) x x Diquat and Paraquat EPA 549.2 x x DBP and HAA SM 6251 B x Dissolved Organic Carbon Dissolved Oxygen SM 4500-O G x EDB/DCBP/TCP EPA 504.1 x EDB/DBP/TCP EPA 548.1, *(LCMS-24445) x EDTA and NTA *WC-2454 x <t< td=""><td>BOD/CBOD</td><td>SM 5210 B</td><td></td><td>X</td></t<>	BOD/CBOD	SM 5210 B		X
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Tluoride	Endothall		¥	
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Glyphosate EPA 547 x Glyphosate and AMPA +LCMS-3618 x	Fluoride	SM 4500F C	X	Х
Glyphosate and AMPA + LCMS-3618 x				
Gross Alpha and Gross Beta EPA 900.0 x x				
	Gross Alpha and Gross Beta	EPA 900.0	X	X

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	X	х
Hardness	SM 2340 B	Х	Х
Hexavalent Chromium	EPA 218.6,	X	X
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	X
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	Х	Х
Odor	SM2150B	X	
Organohalide Pesticides and PCB	EPA 505	х	
Ortho Phosphate	SM 4500P E	Х	
Oxyhalides Disinfection			
Byproducts	EPA 317.0	X	
Perchlorate	EPA 331.0	Х	
Perchlorate (Low and High Levels)	EPA 314.0	х	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	х	
PPCP and EDC	*LCMS-2443	Х	
рН	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	*WC 2493 (EPA 420.2 and EPA 420.4 MOD)	х	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	х	х
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	X	Х
Total Phenols	EPA 420.1		Х
Total Phenols	EPA 420.4	Х	Х
Triazine Pesticides and their Degradates	+LCMS-3617	Х	
Turbidity	EPA 180.1	X	Х
Uranium by ICP/MS	EPA 200.8	Х	
UV 254 Organic Constituents	SM 5910B	Х	
VOCs VOCs	EPA 524.2 + (GCMS 2412) by EPA 524.2 modified	X X	

^(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

⁽⁺⁾ In-House Method



Acknowledgement of Samples Received

Addr: Honolulu Board of Water Supply

630 South Beretania Street Public Service Bldg." Room 308

Honolulu, HI 96843

Attn: Erwin Kawata Phone: 808-748-5091 Client ID: HONOLULU Folder #: 979935 Project: RED-HILL

Sample Group: Red-Hill Expanded List

(Albuquerque+)

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

PO #: C20525101 exp 05312023

The following samples were received from you on **January 12, 2022** at **1425**. 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
202201120740	AIEA GULCH WELLS PUMP 1 (33	1-201-TP071)		01/11/2022 0828
	(SUB)Gas Fraction Hydrocarbons TPH 8015 Jef Fuel 8	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
202201120741	TRAVEL BLANK::AIEA GULCH W	ELLS PUMP 1 (331-201-TP071)		01/11/2022 0828
	(SUB)Gas Fraction Hydrocarbons			

Test Description

Reported: 02/02/2022



CHAIN OF CUSTODY RECORD

26999

EUROFINS EATON ANALYTICAL USE ONLY: Eaton Analytical

(check for yes) O = Other - Please Identify Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,... list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample) check for yes) 8886 COMMENTS 227 8 SAMPLER (check for yes), OR Temp Blank: 0 NON-COMPLIANCE SAMPLES X 22/21 SAMPLES LOGGED IN BY: 1/11/2022 SAMPLES REC'D DAY OF COLLECTION? 1/11/2022 SAMPLES CHECKED AGAINST COC BY: REGULATION INVOLVED: No Ice SO = Soil SL = Sludge SEE ATTACHED BOTTLE ORDER FOR ANALYSES METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: Wet Ice Honolulu Board of Water Supply Honolulu Board of Water Supply **BW** = Bottled Water **SW** = Storm Water check for yes) COMPANY/TITLE - Requires state forms COMPLIANCE SAMPLES Thawed °C (Compliance: 4 ± 2 °C) °C (Compliance: 4 ± 2 °C) SEAW = Sea Water ww = Waste Water Partially Frozen 8015 Gac_C TB S015 Gac_C IO rotoM 8015 Diesel & 0 Olaf Happe ATAO 01317 Olaf Happe CFW = Chlor(am)inated Finished Water PRINT NAME 1 day CONDITION OF BLUE ICE: Frozen ATAG GJEIF Colton / No. California / Arizona 2 day CFW SAMPLE TEMP RECEIVED AT: FW = Other Finished Water · XIATAM 200 Red Hill STD__ 1 wk_X_ 3 day LOGIN COMMENTS: SAMPLE GROUP: **CLIENT LAB ID** PROJECT CODE: H10000331-201 Monrovia RGW = Raw Ground Water * MATRIX TYPES: RSW = Raw Surface Water Aiea Gulch Wells Pump 1 fAT requested: rush by adv notice only SAMPLE ID COC ID: SIGNATURE 750 Royal Oaks Drive, Suite 100 **BWS HONOLULU** 800 566 LABS (800 566 5227) 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: RECEIVED BY: 45 pages Q500 2211110 TIME RECEIVED BY: SAMPLED BY: SAMPLE **BTAQ** SAMPLE

PAGE 1 OF 1

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INTERNAL CHAIN OF CUSTODY RECORD

Eaton Analytical

97999

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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

		N/A
		Thawed
	رن (ئ	Partially Frozen
۲	<u>=</u>	ادر ادر
	;) (Final =	Froze
,	Corr.Factor 6 6 °C	CONDITION OF ICE: F
	(0, 7	-
(vation= 3	No Ice
	Obser	tic
,	いろり	Synthe
	 	Real
	IR Gun	TYPE OF ICE:

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

Compliance Acceptance Criteria:

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

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the

ation=	*C) (Corr.Factor	*C) (Final =	٥.	2 = (Observation=	*C) (Corr.Factor	*C) (Final =	(c)
vation=	°C) (Corr.Factor	*C) (Final =	() .	4 = (Observation=	*C) (Corr.Factor_	*C) (Final =	(0.

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)

PH strip type: 0 - 14 or Expiration DateResul	Expiration Date: Results
5) pH Check, Manufacturer: Lot Number:	6) Chlorine check. Manufacturer: Sansafe. Lot No.:

		onal clients:	Samp ID Bottle # None/ mm
	s)	ls, Internati	Samp ID
Samples with Headspace (see below):	Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)		t Samp ID Bottle # None/<5 >6mm Test
	nal VC	PME, @C	n Tes
No Samples with Headspace:	space Documentation (use additio	cerns: Methods 515.4, HAA(6251,552), 505, S	Samp ID Bottle # None/<6 >6mm Test
7) VOA and Radon Headspace:	Heads	Exempt from headspace cond	Samp ID Bottle # None/<6 >6mm Test

mm

Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling error	g error	
e Sample IDs which have dissimilar headspace (i.e.	samplin	
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	SIGNATURE	1		PRINT NAME	20		COMPANY/TITLE	DATE	TIME
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	SIGNATURE			PRINT NAME			COMPANY/TITLE	DATE	TIME
SAMPLES CHECKED A	SAINST COC BY:						Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

Created Date & Time: 12/10/2021 8:12:49PM

Eaton Analytical ំ ្នំ៖ eurofins

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

Kit Order for Honolulu Board of Water Supply

Note: Sampler Please return this paper with your samples

Red-Hill Expanded List (Albuquerque+)

Group Name: PO#/JOB#:

Client ID: HONOLULU

Project Code: RED-HILL Bottle Orders

Description: MOANALUA WELLS - Every 1 wee

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

Send Report to

C20525101 exp 05312023

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

Kit #: 307680

STG: Bottle Orders

Pre Registered

Created By: - [AutoGenerated] Deliver By: 12/29/2021 Ice Type: G

Honolulu Board of Water Supply **630 South Beretania Street** Ship Sample Kits to Honolulu, HI 96843 Chemistry Lab

Attn: Ron Fenstemacher Phone: 808-748-5841 Fax: 808-550-5572

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

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

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

UN DOT#

Total	-8	6
Bottle Qty - Iype [preservative information]	@825A_Physis.C., @625BN_Physis.C., @625PAH_Physts_TtCS_C-8-1L ambor glacs [1 ml Thio 8%.]	TPH 8015 Diesel and Motor Oil C, TPH 8015 Jet Fuel 5. C, TPH 9-1 L amber glass [1 ml Thio 8%] 1 11
le Te		F

3 - 40ml amber glass vial [1 drop Thio (8%)] 🏌 (1L amber glass [1 ml | nio 8%] (1 1 (**7.7** מות יאינה אינה וירם ורון, יבוש היום ואינה ליבוש ואינה ביום 8015 Jet Fuel 8

8015 Gas C

Sample Tests

3 40ml amber glass vial [25mg Ascorbic I drop 2ml 1:1 HCL] 3 - 40ml amber glass vial [25mg AA+ H20+10 drop 1:1 HCL] 2 - 40ml amber glass vial [1 drop Thio (8%) + H20] 1(4 - 40ml ember glass vial | no preservative | **@VOASDWA G plus plus TICS IBC** @VOASDWA G-plus plus TICs C. @8015 Ethanol_Subbed 8015 Gas_C TB

UN1789 UN1789

ત

ന 2 Sum Bottles: 32

Sum Tests: 7

Comments 3rd MS/MSD

MOANALUA WELLS (331-223 -TP202) SITE ID:

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 for 600 and 8000 series testing Travel Blanks - TBA/MTBE, VOASDWA - Prepare TBs in the VOA LAB. SHIPPING:

-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

Date Shinned Status

Σ

of Coolers



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

Report: 979935 Project: RED-HILL

Group: Red-Hill Expanded List (Albuquerque+)

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

Folder Comments

Results for TPH Gas, Diesel, Motor Oil, Jet Fuels are submitted by EMAX Laboratories



Tel: (626) 386-1100

Laboratory Hits

Report: 979935 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

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: 01/12/2022 1425

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)

Report: 979935 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

Honolulu Board of Water Supply

Erwin Kawata 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843 Samples Received on: 01/12/2022 1425

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
AIEA GL	JLCH WELL	S PUMP 1 (331-201-TP071) ((20220112074	0)	Sam	pled on 01/11	/2022 082	8
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/13/22	01/13/22 18:33			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
01/13/22	01/14/22 22:43			(SW 8015B)	TPH Diesel	ND	mg/L	0.028	1
01/13/22	01/14/22 22:43			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.057	1
		EPA 8015 -	Jet Fuel 5 C8-C	:18					
01/13/22	01/14/22 22:43			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.057	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
	01/14/22 22:43			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.057	1
TRAVEL	BLANK::AI	EA GULCH	WELLS PUMP 1	(331-201-TP	<u>071) (202201120741)</u>	Sam	pled on 01/11	/2022 082	8
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/13/22	01/13/22 19:09			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



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

Date: 01-26-2022

EMAX Batch No.: 22A119

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 979935

Enclosed is the Laboratory report for samples received on 01/13/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202201120740	A119-01 01/11/22	WATER	TPH GASOLINE TPH
202201120741	A119-02 01/11/22	WATER	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 ${\tt EMAX}$.

 ${\tt EMAX}$ 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

Submittal Form

Date: 1/13/2022

224119

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder# 979935 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.

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

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

3 day rush

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

979935

01/17/2022

SI PWSID Static ID: Clip Code Sample Date & Time Matrix Sample Point ID: Facility ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071) Client Sample ID for reference onl Sample Event: 202201120740 Sample type: Sample ID

Method	Prep Method	Analysis Requested
SW 8015B	EPA 5030C	(SUB)Gas Fraction Hydrocarbons
SW 8015B	EPA 3550B	TPH 8015 Diesel and Motor Oil
EPA 8015	EPA 8015	Jet Fuel 5 C8-C18
EPA 8015		Jet Fuel 8 C8-C18

Static ID: Clip Code Sample Date & Time Matrix 01/11/22 0828 DW Sample Point ID: Facility ID: *Client Sample ID for reference on!* TRAVEL BLANK::AIEA GULCH WELLS PUMP 1 (331-201-TP071) **Analysis Requested** Sample Event: **Prep Method** 202201120741 Sample type: Sample ID Method

(SUB)Gas Fraction Hydrocarbons

EPA 5030C

SW 8015B

SI

PWSID

Date 01/13/22 Time 11: 40 Time Page 1 of 4 Time Date Date Date Sample Control Sample Control Relinquished by: Relinquished by: Received by: Received by:

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Temp: (0 2.3" (2) 3.1" Page 2 of 35

REPORT ID: 22A119⁷⁵⁰ Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Page 12 of 45 pages

Reference: Addendum SM02.11.1

Form: SM02F1

Type o	f Delivery .	1	Airbill / Track	cing Number	ECN 22 h 1/0	
□ Fedex □ UPS □ GS0		-	Anom/ Hack	ang Number	ECN 22A 119 Recipient JOCE 19NE	Wit- Paper
□ EMAX Courier ☐ Client		 			Date 0//13/22	Time 11:40
COC INSPECTION					1 Date 0//19/00	11me //. 40
Client Name	Client PM/FC		☐ Sampler Name	Sampling Datc/Time		
Address	Tel # / Fax #				Sample ID	Matrix
Safety Issues (if any)	/	. ,	☐ Courier Signature	Analysis Required	☐ Preservative (if any)	Z I TAT
Note:	☐ High concentrations exp	pected	☐ From Superfund Site	☐ Rad screening required		
Note.		<u> </u>				
PACKAGING INSPEC						
Container	☑ Cooler		□ Box	☐ Other		
Condition	☐ Custody Seal		☐ Intact	☐ Damaged		
Packaging	Bubble Pack		☐ Styrofoam	□ Popcorn ·	☐ Sufficient	
Temperatures	Ø Cooler 1 <u>2.3</u> ℃	øc₀	oler 2 <u>3. </u> °C	□ Cooler 3 °C	□ Cooler 4°C	□ Cooler 5°C
(Cool, ≤6 °C but not frozen)	Cooler 6 °C	C₀	oler 7 °C	□ Cooler 8°C	□ Cooler 9°C	☐ Cooler 10°C
Thermometer:	☐ Cooler 6 °C A - S/N 210191066 ~ 1	Jids.	B-S/N 210271396	C-S/N 210271399	D - S/N	La Coolei 10 C
Comments: Temperature is	s out of range. PM was inform	/ 14 ed IMM	EDIATELY.		2 0/11	
Note:	U					

DICORPOLINGING						
DISCREPANCIES			I			
LabSampleID	LabSampleContainerID	Code	· · · · · · · · · · · · · · · · · · ·	abel ID / Information	Corrective .	Action
2		D5	received 1 br	oken vial for	128	
		<u> </u>	SW8015B		. i	
	4-7	DZ	Jettuel 8 15 h	not indicated on		
			iabel			
					Charles and the second	

			A STATE OF THE STA			
				_0/10/00		
☐ pH holding time requirem	ent for water samples is 15 mi	ns. Wa	iter samples for pH analy	sis are received beyond 15 m	ninutes from sampling time	1/2 1114/22
					mated from samping time.	100 1111
NOTES/OBSERVATION	(8:			·		
	*		•			
LEGEND:				:	☐ Continue to next page	2.
Code Description-Sample Ma	anagement	Code	Description-Sample Mana	gement	Code Description-Sample Manag	
D1 Analysis is not indicated	in		Out of Holding Time	5	R1 Proceed as indicated in \square COC	
(D2) Analysis mismatch COC	vs label		Bubble is >6mm		R2 Refer to attached instruction	_ Euoci
D3 Sample ID mismatch CO			No trip blank in cooler		R3 Cancel the analysis	
D4 Sample ID is not indicate			Preservation not indicated in	1	R4 Use vial with smallest bubble fit	
(D5) Container -[improper] [le			Preservation mismatch COC			
D6 Date/Time is not indicate			nsufficient chemical preserv		R5 Log-in with latest sampling date	and time+1 min
D7 Date/Time mismatch CO			nsufficient Sample	vauvo	R6 Adjust pH as necessary	101
D8 Sample listed in COC is a			No filtration info for dissolve	ed analysis	R7 Filter and preserved as necessary	(Nagar
D9 Sample received is not lis			vo mitration into for dissolve vo sample for moisture determ	-	R8 bb/hla	Choral ;
D10 No initial/date on correct		D21 P	o sample for moisture determ		R9	
D11 Container count mismate	i	_			R10 V	
D12 Container size mismatch	· ·	D23_			R11	
REVIEWS:	To celyhe	D24_		1)	R12	
	igsolis-Ramos Rey		Cram and	(leul.)		p A
oampie Labein	te 01/13/22 11/3/12	_	SRF	- 1/17/55/	PM	- Hiller
Da	16 21 11/10 11/10/100	٠.	Date	412100	Date_	1/14/20
	1 /			1 1		÷ •

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.

REPORT ID: 22A119 Pages of at 515 pages

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

979935

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

SDG#: 22A119

Client : EUROFINS EATON ANALYTICAL

Project: 979935

SDG : 22A119

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 01/13/22 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. VG39A07B - 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. VG39A07L/VG39A07C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG. Gasoline was within MS QC limits in A100-01M/A100-01S. 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: 22A119

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

client Project	lient : EUROFINS EATON ANALYTICAL			## ##)) 1) 1) 11 11 11 11 11 12 13 14		SDG NO. Instrumen	SDG NO. : 224119 Instrument ID : GCT039
			11 	 	======================================	WATER			i i i i i i i i	
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
			!	1 1 1 1	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1	!	1 1 1 1 1 1 1	1 1 1	
MRI K10		VG39A07B	_	N	01/13/2205:12	01/13/2205:12	EA12028A	EA12025A	22VG39A07	22VG39A07 Method Blank
I CS1W		VG39A07L	_	Ą	01/13/2205:49	01/13/2205:49	EA12029A	EA12025A	22VG39A07	22VG39A07 Lab Control Sample (LCS)
LCD 1W		VG39A07C	_	AN	01/13/2206:25	01/13/2206:25	EA12030A	EA12025A	22VG39A07	22VG39A07 LCS Duplicate
202201120740	.40	A119-01	1	NA	01/13/2218:33	01/13/2218:33	EA12050A	EA12047A	22VG39A07	22VG39A07 Field Sample
202201120741	741	A119-02	-	NA	01/13/2219:09	01/13/2219:09	EA12051A	EA12047A	22VG39A07	22VG39A07 Field Sample

FN - Filename % Moist - Percent Moisture

SAMPLE RESULTS

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/11/22 08:28

 Project
 : 979935
 Date Received: 01/13/22

 Batch No.
 : 22A119
 Date Extracted: 01/13/22 18:33

 Sample ID
 : 202201120740
 Date Analyzed: 01/13/22 18:33

Lab Samp ID: A119-01 Dilution Factor: 1
Lab File ID: EA12050A Matrix: WATER
Ext Btch ID: 22VG39A07 % Moisture: NA
Calib. Ref.: EA12047A Instrument ID: 39

 RESULTS
 RL
 MDL

 PARAMETERS
 (mg/L)
 (mg/L)
 (mg/L)

 GASOLINE
 ND
 0.020
 0.010

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT

Bromofluorobenzene 0.0320 0.0400 80 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: 01/11/22 08:28
Project : 979935 Date Received: 01/13/22

Batch No. : 22A119 Sample ID : 202201120741 Date Extracted: 01/13/22 19:09 Date Analyzed: 01/13/22 19:09

Lab Samp ID: A119-02 Dilution Factor: 1 Lab File ID: EA12051A Matrix: WATER % Moisture: NA Ext Btch ID: 22VG39A07 Calib. Ref.: EA12047A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT _____ 0.0330 0.0400 82 60-140 Bromofluorobenzene

Notes:

Parameter H-C Range Gasoline C6-c10 Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 5ml

Analyzed by : SCerva Prepared by : SCerva

QC SUMMARIES

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/13/22 05:12 Date Received: 01/13/22

Project : 979935 Batch No. : 22A119 Sample ID : MBLK1W Date Extracted: 01/13/22 05:12 Date Analyzed: 01/13/22 05:12

Lab Samp ID: VG39A07B Dilution Factor: 1 Matrix: WATER Lab File ID: EA12028A % Moisture: NA Ext Btch ID: 22VG39A07 Instrument ID: 39 Calib. Ref.: EA12025A

RESULTS RL MDL (mg/L) (mg/L) (mg/L) PARAMETERS -----ND 0.020 0.010 GASOLINE QC LIMIT RESULT SPK_AMT %RECOVERY SURROGATE PARAMETERS

Bromofluorobenzene 0.0328 0.0400 82 60-140

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.

Final Volume : 5ml Sample Amount : 5ml

Analyzed by : SCerva Prepared by : SCerva

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO.

: 979935 : 22A119

METHOD

: 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1

1

SAMPLE ID : MBLK1W LAB SAMPLE ID : VG39A07B LAB FILE ID : EA12028A LCS1W VG39A07L EA12029A LCD1W VG39A07C EA12030A

DATE PREPARED : 01/13/22 05:12 DATE ANALYZED : 01/13/22 05:12 PREP BATCH : 22VG39A07 CALIBRATION REF: EA12025A

01/13/22 05:49 01/13/22 05:49 22VG39A07 EA12025A

01/13/22 06:25 01/13/22 06:25 22VG39A07 EA12025A

% MOISTURE:NA

ACCESSION:

Bromofluorobenzene

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	0.498	100	0.500	0.482	96	3	60-130	30
	=========	=======	:=======			985555555	=======			:======
SURROGATE PARAMETER		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0427	107	0.0400	0.0427	107		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 : 979513

BATCH NO. : 22A100

METHOD : 5030B/8015B

MATRIX: WATER % MOISTURE:NA
DILUTION FACTOR: 1 1 1

SAMPLE ID : 202201110305 202201110305MSD

LAB SAMPLE ID : A100-01 A100-01M A100-01S LAB FILE ID : EA12039A EA12040A EA12041A DATE PREPARED : 01/13/22 11:52 01/13/22 12:28 01/13/22

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	0.456	91	0.500	0.482	96	6	50-130	30
=======================================		========	=======		========		:======		========	======
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0415	104	0.0400	0.0413	103		60-140	

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

979935

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22A119

Client : EUROFINS EATON ANALYTICAL

Project: 979935

SDG : 22A119

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 01/13/22 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. DSA010WB - 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 DSA010WL. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22A116-01M/22A116-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

Client : EUROFINS EATON ANALYTICAL

Project: 979935

SDG : 22A119

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 01/13/22 to be analyzed for 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. DSA010WB - 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 JP5 was within LCS QC limits in J5A010WL. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG. One (1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22A116-01M/22A116-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

Client : EUROFINS EATON ANALYTICAL

Project: 979935

SDG : 22A119

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 01/13/22 to be analyzed for 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. DSA010WB - 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 JP8 was within LCS QC limits in J8A010WL. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG. One(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22A116-01M/22A116-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

## ## ## ## ## ## ##										
Client	: EUROFINS EATON ANALYTICAL	NALYTICAL							SDG NO.	: 22A119
	: 979935								Instrumen	Instrument ID : D5
## 		# # # # # # # # # # # # # # # # # # # #	######					# # # # # # # # # # # # # # # # # # #		
					WA	WATER				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
		\$ \$ 1 1	; ; ;	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		: : : :			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MBLK1W		DSA010WB		N	01/14/2218:53	01/13/2216:00	LA14012A	LA14004A	22DSA010W I	22DSA010W Method Blank
LCS1W		DSA010WL	_	NA	01/14/2219:11	01/13/2216:00	LA14013A	LA14004A	22DSA010W	22DSA010W Lab Control Sample (LCS)
202201120740	0	A119-01	-	AN	01/14/2222:43	01/13/2216:00	LA14025A	LA14004A	22DSA010W	22DSA010W Field Sample

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

								011	. 224110
Client	: EUROFINS EATON ANALYTICAL							SUG NO.	: 224119
	: 979935							Instrument ID : D5	
				M	WATER				
Client	Laboratory	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	Se
	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 1	;			
MRI K1W	DSA010WB	,	AN	01/14/2218:53	01/13/2216:00	LA14012A	LA14005A	22DSA010W Method Blank	od Blank
I CS1W	J5A010WL	-	AN	01/14/2219:28	01/13/2216:00	LA14014A	LA14005A	22DSA010W Lab	22DSA010W Lab Control Sample (LCS)
202201120740	4	-	NA	01/14/2222:43	01/13/2216:00	LA14025A	LA14005A	22DSA010W Field Sample	d Sample

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : E	: EUROFINS EATON ANALYTICAL	CAL							SDG NO.	: 22A119
	: 979935								Instrumen	Instrument ID : D5
				H H H H H						######################################
					WAT	WATER				
Client	Labora	atory D	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	e ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
	1 1 1 1 1 1	111111		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
MBLK1W	DSA010WB	OWB	_	NA	01/14/2218:53	01/13/2216:00	LA14012A	LA14006A	22DSA010W	22DSA010W Method Blank
LCS1W	J8A010WL	OWL	-	NA	01/14/2219:46	01/13/2216:00	LA14015A	LA14006A	22DSA010W	22DSA010W Lab Control Sample (LCS)
202201120740	A119-01	10	-	NA	01/14/2222:43	01/13/2216:00	LA14025A	LA14006A	22DSA010W	22DSA010W Field Sample

SAMPLE RESULTS

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/11/22 08:28

Project : 979935 Date Received: 01/13/22
Batch No. : 22A119 Date Extracted: 01/13/22 16:00
Sample ID : 202201120740 Date Analyzed: 01/14/22 22:43

Sample ID : 202201120740 Date Analyzed: 01/14/22 22:43
Lab Samp ID: 22A119-01 Dilution Factor: 1
Lab File ID: LA14025A Matrix: WATER

Ext Btch ID: 22DSA010W % Moisture: NA Calib. Ref.: LA14004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.028	0.014	
Motor Oil	ND	0.057	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.426	0.570	75	60-130
Hexacosane	0.110	0.142	77	60-130

Hexacosane 0.110 0.142 77 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 : 880ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

: EUROFINS EATON ANALYTICAL Date Collected: 01/11/22 08:28 Date Received: 01/13/22

Project : 979935
Batch No. : 22A119
Sample ID : 202201120740 Date Extracted: 01/13/22 16:00 Date Analyzed: 01/14/22 22:43

Lab Samp ID: 22A119-01 Dilution Factor: 1 Matrix: WATER Lab File ID: LA14025A % Moisture: NA Ext Btch ID: 22DSA010W Calib. Ref.: LA14005A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.057	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.426 0.110	0.570 0.142	75 77	60-130 60-130

Notes:

: Reporting Limit H-C Range Parameter

C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 880ml

Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/11/22 08:28

Project : 979935 Batch No. : 22A119 Date Received: 01/13/22

Date Extracted: 01/13/22 16:00 Sample ID : 202201120740 Date Analyzed: 01/14/22 22:43

Lab Samp ID: 22A119-01 Dilution Factor: 1 Lab File ID: LA14025A Matrix: WATER Ext Btch ID: 22DSA010W % Moisture: NA Calib. Ref.: LA14006A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.057	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.426	0.570	75	60-130
Hexacosane	0.110	0.142	77	60-130
				=========

Notes:

: Reporting Limit RL Parameter H-C Range

JP8 c8-c18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 880ml

Final Volume: 5ml

Prepared by : JMuert Analyzed by : SDeeso

QC SUMMARIES

REPORT ID: 22A119

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/13/22 16:00

 Project
 : 979935
 Date Received: 01/13/22

 Batch No.
 : 22A119
 Date Extracted: 01/13/22 16:00

 Sample ID
 : MBLK1W
 Date Analyzed: 01/14/22 18:53

Lab Samp ID: DSA010WB
Lab File ID: LA14012A
Ext Btch ID: 22DSA010W
Calib. Ref.: LA14004A

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	0.386	0.500	77	60-130
Hexacosane	0.109	0.125	87	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 979935 BATCH NO. : 22A119 METHOD : 3520C/8015B

MATRIX: WATER % MOISTURE:NA DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W LAB SAMPLE ID : DSA010WB DSA010WL LAB FILE ID : LA14012A LA14013A

DATE PREPARED : 01/13/22 16:00 01/13/22 16:00
DATE ANALYZED : 01/14/22 18:53 01/14/22 19:11
PREP BATCH : 22DSA010W 22DSA010W
CALIBRATION REF: LA14004A LA14004A

ACCESSION:

Hexacosane

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.39	96	50-130
	=======	:=======	=========	=======	=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene		0.500	0.465	93	60-130

0.125

0.118

94

60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/13/22 16:00

Project : 979935 Date Received: 01/13/22
Batch No. : 22A119 Date Extracted: 01/13/22 16:00
Sample ID : MBLK1W Date Analyzed: 01/14/22 18:53

Lab Samp ID: DSA010WB
Lab File ID: LA14012A
Ext Btch ID: 22DSA010W
Calib. Ref.: LA14005A

Dilution Factor: 1
Matrix: WATER
% Moisture: NA
Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.386 0.109	0.500 0.125	77 87	60-130 60-130

Notes:

RL: Reporting Limit
Parameter H-C Range
JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml

Prepared by : JMuert

Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

: EUROFINS EATON ANALYTICAL CLIENT

PROJECT : 979935 BATCH NO. : 22A119 METHOD : 3520C/8015B

: WATER MATRIX % MOISTURE:NA

DILUTION FACTOR: 1 1 DILUTION FACTOR: 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSA010WB J5A010WL

LAB FILE ID : LA14012A LA14014A

DATE PREPARED : 01/13/22 16:00 01/13/22 16:00

DATE ANALYZED : 01/14/22 18:53 01/14/22 19:28

PREP BATCH : 22DSA010W 22DSA010W LA14005A CALIBRATION REF: LA14005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.12	85	30-160
	==========			=======	:
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.477 0.115	95 92	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/13/22 16:00

Project : 979935 Date Received: 01/13/22 Date Extracted: 01/13/22 16:00

Batch No. : 22A119 Sample ID : MBLK1W Date Analyzed: 01/14/22 18:53

Lab Samp ID: DSA010WB Dilution Factor: 1 Lab File ID: LA14012A Matrix: WATER % Moisture: NA Ext Btch ID: 22DSA010W Instrument ID: D5 Calib. Ref.: LA14006A

PARAMETERS .	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.386 0.109	0.500 0.125	77 87	60-130 60-130

RL : Reporting Limit Parameter H-C Range JP8 C8-C18

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 CLIENT : EURUFII
PROJECT : 979935

: EUROFINS EATON ANALYTICAL

BATCH NO. : 22A119 METHOD : 352OC/8015B

: WATER MATRIX DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : MBLK1W

LCS1W

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	1.99	80	30-160
=======================================		=========	=========	========	========
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.519 0.107	104 86	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 979946 BATCH NO. : 22A116 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : 202201120772 LAB SAMPLE ID : 22A116-01 202201120772MS 202201120772MSD 22A116-01M 22A116-01S LAB FILE ID : LA14016A LA14018A LA14017A DATE PREPARED : 01/13/22 16:00 01/13/22 16:00 01/13/22 16:00 DATE ANALYZED : 01/14/22 20:03 01/14/22 20:21 01/14/22 20:39 PREP BATCH : 22DSA010W 22DSA010W 22DSA010W CALIBRATION REF: LA14004A LA14004A LA14004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.95	2.66	90	2.95	2.70	92	1	50-130	30
		========	ne dour root from hard bank hard while daths date date and		=======	=======================================	======	======		=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.590 0.148	0.441 0.124	75 84	0.590 0.148	0.482 0.128	82 87		60-130 60-130	

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO.

: 979946 : 22A116

METHOD

: 3520C/8015B

MATRIX : WATER

DILUTION FACTOR: 1

0.139

% MOISTURE:NA

SAMPLE ID

: 202201120772

202201120772MS

202201120772MSD

LAB SAMPLE ID : 22A116-01 LAB FILE ID : LA14016A

22A116-01M LA14019A

22A116-01S LA14020A

DATE ANALYZED : 01/14/22 20:03

DATE PREPARED : 01/13/22 16:00

01/13/22 16:00 01/14/22 20:57

01/13/22 16:00 01/14/22 21:15

60-130

PREP BATCH : 22DSA010W

22DSA010W

22DSA010W

Hexacosane

CALIBRATION REF: LA14005A

LA14005A

LA14005A

0.126

90

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.78	2.37	85	2.80	2.86	102	19	30-160	30
		=======	========	======	=========	1========			.========	=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene		0.555	0.496	89	0.560	0.540	96		60-130	

86

0.120

0.140

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 22A116 METHOD : 3520C/8015B

: 979946

: WATER MATRIX DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202201120772

202201120772MS

202201120772MSD

22A116-01M

22A116-01S

LAB SAMPLE ID : 22A116-01 LAB FILE ID : LA14016A DATE PREPARED : 01/13/22 16:00

LA14022A

DATE ANALYZED : 01/14/22 20:03

LA14021A 01/13/22 16:00

01/13/22 16:00

PREP BATCH : 22DSA010W

01/14/22 21:33

01/14/22 21:50 22DSA010W

CALIBRATION REF: LA14006A

22DSA010W LA14006A

LA14006A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.88	2.41	84	2.88	2.85	99	17	30-160	30
	=========				========	=======================================	=======================================	========		======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.575 0.144	0.556 0.118	97 82	0.575 0.144	0.634 0.125	110 87		60-130 60-130	