

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

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

Date of Issue
01/27/2022
Lew Frank
EUROFINS EATON
ANALYTICAL, LLC

DEB: Debbie L Frank

Project Manager



Report: 979196 Project: RED-HILL

Group: RED-HILL-INCIDENT Stock

^{*} 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).



STATE CERTIFICATION LIST

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

^{*} NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

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

https://www.eurofinsus.com/Eaton

Test(s) Method(s) Enterococci Enterolert SM 9221 B.1 (Enumeration) Fecal Coliform (P/A and Enumeration) Legionella Enterococci Heterotrophic Bacteria Enguneration) SM 9230 B X X X X X X X X X X X X X	
Enterococci	er
Escherichia coli (Enumeration) Fecal Coliform (P/A and Enumeration) Fecal Streptococci and Enterococci Heterotrophic Bacteria Pseudomonas aeruginosa Total Coliform (P/A and Enumeration) Total Coliform, Total Coliform with Chlorine Present Total Coliform/Ec, SM 9221 x x x x x x x x x x x x x x x x x x	
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Total Microcystins and Nodularins EPA 546 X	
Nodularins EPA 546 X	
reast and word Sivi 9610 X	
1,2,3-Trichloropropane CA SRL 524M-	
(TCP) at 5 PPT TCP	
1,4-Dioxane EPA 522 x	
2.3.7.8-TCDD Modified EPA X	
2,3,7,8-TCDD 1613 B X	
Acrylamide †LCMS 2440) x	
Alkalinity SM 2320B x x	
EPA 350.1,	
Ammonia SM 4500-NH3 x	
Н	
Asbestos EPA 100.2 x x	
Bicarbonate Alkalinity as SM 2330 B	
HCO3 ^ ^	
BOD/CBOD SM 5210 B x	
Bromate ⁺ LCMS- 2447 x	
Carbonate as CO3 SM 2330 B x x	
Carbonyls EPA 556 x x	
EPA 410.4,	
Chemical Oxygen Demand SM 5220D x	
Chlorinated Acids EPA 515.4 x	
Palin Test	
Chloring Diovide Chlordio X Plus,	
Chlorine Dioxide SM 4500-CLO2 x	
D D	
Chlorine, Free, Combined,	
5 N 4500-G G	
Total Residual, x	
Chloramines	
Color SM2120B x	
EPA 120.1,	
Conductivity SM 2510B x x	
Corrosivity (Langelier	
Index) Carbonate as CO3	
Hydroxide as OH SM 2330 B x	
Calculated	
Cyanide (Amenable) SM 4500-CN x x	
· · · · · · · · · · · · · · · · · · ·	
Cyanide (Free) SM 4500CN F 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 Organic Carbon SM 5310 C x	
Dissolved Oxygen SM 4500-O G x	
EDB/DCBP/TCP EPA 504.1 x	
EDB/DBCP and EPA 551.1 x	
Disinfection Byproducts	
EDTA and NTA + WC-2454 x	
EDA 5/18 1	
Endothall EPA 548.1,	
Endothall	
Endothall	
Endothall	
Endothall	

s.com/Eaton	B. B (1) 1(-)	Potable	Waste
Test(s)	Method(s)	Water *	Water
Gross Alpha coprecipitation	SM 7110 C	x	х
Hardness	SM 2340 B	Х	Х
Hexavalent Chromium	EPA 218.6,	Х	Х
Hexavalent Chromium	EPA 218.7,	Х	
Hexavalent Chromium	SM 3500-Cr B		X
Inorganic Anions and DBPs	EPA 300.0	X	Х
Norganic Anions and DBPs	EPA 300.1	X	
Kjeldahl Nitrogen	EPA 351.2		Х
Metals	EPA 200.7, EPA200.8	х	х
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	Х	Х
Odor	SM2150B	Х	
Organohalide Pesticides and PCB	EPA 505	х	
Ortho Phosphate	SM 4500P E	X	
Oxyhalides Disinfection			
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	
	EPA 150.1		
рН	SM 4500-H+ B	Х	X
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	X	Х
Residue (Non-Filterable)	SM 2540D		X
Residue (Total)	SM 2540B		X
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	Х	
Total Organic Carbon	SM 5310 C	Х	Х
Total Phenols	EPA 420.1		X
Total Phenols	EPA 420.4	Х	Х
Triazine Pesticides and their Degradates	+LCMS-3617	Х	
Turbidity	EPA 180.1	Х	Х
Uranium by ICP/MS	EPA 200.8	Х	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	Х	
	+ (GCMS 2412)		
VOCs	by EPA 524.2 modified	Х	

^(*) 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 #: 979196 Project: RED-HILL

Sample Group: RED-HILL-INCIDENT Stock

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

PO #: C20525101 exp 05312023

Sampler: Derek Dotson

The following samples were received from you on **January 08, 2022** at **11:23**. 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
202201100058	PUNANANI WELLS HI0000331-25	1		01/07/2022 0945
	(SUB)Gas Fraction Hydrocarbons TPH 8015 Jef Fuel 8	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
202201100059	TRAVEL BLANK::PUNANANI WEL	LS		01/07/2022 0945
	(SUB)Gas Fraction Hydrocarbons			
<u>202201100060</u>	KALAUAO WELLS HI0000331-248			01/07/2022 0915
	(SUB)Gas Fraction Hydrocarbons TPH 8015 Jef Fuel 8	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
<u>202201100061</u>	TRAVEL BLANK::KALAUAO WELI	.S		01/07/2022 0915
	(SUB)Gas Fraction Hydrocarbons			

Test Description

Reported: 01/27/2022



CHAIN OF CUSTODY RECORD

761616

Eaton Analytical

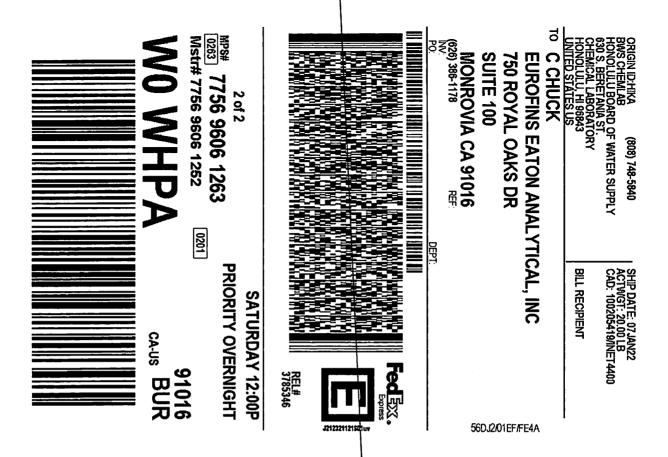
			E	EUROFINS EATON ANALYTICAL		USE ONLY						
				LOGIN COMMENTS:					SAMPLES	SAMPLES CHECKED AGAINST COC BY:	IST COC BY:	4
750 Mon	Royal Os	750 Royal Oaks Drive, Suite 100					200			SAMPLES LOGGED IN BY:	GGED IN BY:	4
5 6	ovia, C.	Moliiovia, CA 91016-3629	78	SAMPLE TEMP RECEIVED AT	ED AT:				SAMPLES	SAMPLES REC'D DAY OF COLLECTION?		(check for yes)
Phor Fax:	Phone: 626 386 11 Fax: 626 386 1101	Phone: 626 386 1100 Fax: 626 386 1101		Colton / No. California / Arizona	/ Arizor	<u>a</u>	-	°C (Compl	°C (Compliance: 4±2°C)			
000				Monrovia			7.	C Compl	$^{\circ}$ C (Compliance: 4 ± 2 $^{\circ}$ C)			
800	266 LAB	800 566 LABS (800 566 5227)	():	CONDITION OF BLUE ICE: Frozen	E ICE:	rozen	X	Partially Frozen	zen Thawed	Wet Ice	No Ice	
				METHOD OF SHIPP	MENT:	Pick-Up	/ Walk-	In / FedEx /	METHOD OF SHIPMENT: Pick-Up / Walk-In / redEx / UPS / DHL / Area Fast / Top Line / Other:	op Line / Other:	-	
TO BE CO	JMPLETEL	TO BE COMPLETED BY SAMPLER:							(check for yes)		eyo)	(check for yes)
COMPA	VY/AGEN	COMPANY/AGENCY NAME:		PROJECT CODE:			=	00	COMPLIANCE SAMPLES	NON-COMPL	NON-COMPLIANCE SAMPLES	×
		BWS HONOLULU	ULU	Red Hill	≣		F	pe of sample	- Requires state forms Type of samples (circle one): ROUTINE & PE	CIAL CONFIRMATI	forms REGULATION INVOLVED: ROUTINE EPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,)	V, NPDES, FDA,)
EEA CLI	EEA CLIENT CODE:	DE:	COC ID:	SAMPLE GROUP:			S	EE ATTAC	SEE ATTACHED BOTTLE ORDER FOR ANALYSES	OR ANALYSES	x (check for yes), OR	es), <u>OR</u>
	Hong	Honolulu		(=	list ANALYS	list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	er of bottles sent	for each test for e	ach sample)
TAT req	nested: r	TAT requested: rush by adv notice only	e only	STD 1 wk X 3 day	_ 2 day	1 day	Ī					
3AMA2 3TAG	SAMPLE	SAN	SAMPLEID	CLIENT LAB ID	• XIRTAM	ATAO OJEIS	ATAG GLEIP	меекій Вед н			SA	SAMPLER COMMENTS
1722	0845		PUNANANI WELLS	HI0000331-251	CFW			×		7.		
1-7-22	SIE		KALAUAO WELLS	HI0000331-248	CFW			×				
		Temper	Temperature Blank	V							Temp Blank:	ank: 1.5 °C
* MAT	* MATRIX TYPES:	1	RSW = Raw Surface Water RGW = Raw Ground Water	CFW = Chlor(am)inated Finished Water FW = Other Finished Water	ed Finis Water	hed Wa	4.	SEAW = Sea Water WW = Waste Water	Nater BW = Bottled Water Nater SW = Storm Water	ater SO = Soil ter SL = Sludge		O = Other - Please Identify
		SIGN	SIGNATURE			PRINT NAME	ME		COMPANY/TITLE		DATE	TIME
SAMPLED BY:	BY:	D	1 Della Service de la constante de la constant			Derek Dotson	tson		Honolulu Board of Water Supply	er Supply	1-7-2022	
RELINQUI	RELINQUISHED BY:	Gal	hosp	•	0	Derek Dotson	tson		Honolulu Board of Water Supply	er Supply	1-7-222	1200
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eage 5 of 54 pages

Eurofins Eaton Analytical COMPANY/TITLE

्रुं eurofins		INTERNAL CHAIN OF CUSTODY RECORD	RECORD		
EEA Folder Number: 079196		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. SAMPI FS REC'D DAY OF COIL FCTION? Yes / No	etermine whether to proceed w	th analysis or not.	
IR Gun ID = $69 (A \text{ (Observation} = 2.1)$	0) (0, 1	°C) (Corr.Factor-C-3-°C) (Final = 1.9 °C)			
TYPE OF ICE: Real Synthetic X No Ice	1,	CONDITION OF ICE: Frozen X Partially Frozen	zen Thawed	N/A	
METHOD OF SHIPMENT: Pick-Up / V	METHOD OF SHIPMENT: Pick-Up / Walk-In / KedEx UPS / DHL / Area Fast / Top Line / Other:	ast / Top Line / Other:			
Compliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not frozer	ipliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	ple collection)			
2) Microbiology, Distribution: < 1	2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	on ice the same day as sample co	ollection, within 8 hou	rrs)	
3) Microbiology, Surface Water:	3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	collection)			
If out of lemperature 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	iology 1 = (Observation= *C) (Corr.Factor ire of the 3 = (Observation= *C) (Corr.Factor ire of the 3 = (Observation= *C) (Corr.Factor ire of the interval i	.C) (Final = .C) Z = (Observations	*C) (Corr.Factor *C) (*C) (Final =*C)	
4 Dioxin (1613 or 2,3,7,8 TCDD): mu	must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	seived after 24 hrs of sample collec	ction)		
5) pH Check. Manufacturer: Lot No.: 6) Chlorine check. Manufacturer: Sansafe. Lot No.:	Number: Expir	pH strip type: 0 - 14 orExpiration Date: Results	Expiration Date	Results:	
VOA and Radon No 7) Headspace: Headspace Exempt from headspace concerns: Samo ID Bottle # None/s6 Semm Test	A and Radon No Samples with Headspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: Anatoxin	Samples with Headspace (see below): nd Radon Internal COFC for additional bottle samplo Bottle # None/<6 >60m Test	(see below): litional bottles) s using 40 ml vials, interr Test Samp	9>/6	>6mm Test
	WIII				
Note Sample IDs which have dissimilar	Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):				
SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME	
RECEIVED BY:	Chic Goles	Eurofins Eaton Analytical	1.3-32	123	
SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME	

SIGNATURE SAMPLES CHECKED AGAINST COC BY:



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.

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INTERNAL CHAIN OF CUSTODY RECORD

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Eaton Analytical

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	s will determine whether to proceed with analysis or not	Yes / No	
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	(2. 1. 0 = lena) (3. 0 - rotos = 10. (3.
	6101		A Changitainain

0. 7. °C)	Partially
) (Final =	Frozen
C) (Corr.Factor -0-7-C)	CONDITION OF ICE:
IR Gun ID = 63/4 (Observation= 1-1 °C	TYPE OF ICE: Real Synthetic No Ice

TYPE OF ICE: Real	Synthetic	No Ice		J	TIONO	CONDITION OF ICE: Frozer	Frozen	Partially Frozen	
METHOD OF SHIPMENT:	: Pick-Up / V	Valk-In /	FedEx) L	JPS /	DHL /	Area Fast /	Top Line /	Other:	- 1

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 quadrants

= (Observation=	*C) (Corr.Factor	*C) (Final =	0.	*C) <= (Observation=	C) (Coff.Factor C) (Final =	C) (rusi =	3
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5) pH Check. Manufactu	rrer:	Lot Number:	pH strip type: 0 - 14	or	Expiration Date	Results:
6) Chlorine check. Ma	anufacturer: Sansafe. Lot	No.:	Expiration Date:	Results		

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Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):

CEIVED BY: Company Country Cou	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
TE COMPANYITILE DATE Eurofins Eaton Analytical		C.W. Gels	Eurofins Eaton Analytical	1-8-22	1145
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QA FO-FRM5504 (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.



Laboratory Comments

Report: 979196 Project: RED-HILL

Group: RED-HILL-INCIDENT Stock

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

Folder Comments

Analytical results for Gasoline, Diesel, Motor Oil, and Jet Fuels are submitted by EMAX Laboratories, Torrance, CA

COC Interpretation

Punanani Time sampled looks like 0845. Container labels indicate 0945. Sample time is confirmed by Derek Dotson, sampler, as 0945. deb011122

8015 gas - HB

Travel Blanks (TB) were inadvertently delivered on separate days from the field sample. The samples are ND. TBs were cancelled by the sublab. TBs are for detection source tracing. TBs are not needed to validate these associated field sample results. Proceed with reporting per review with Erwin Kawata 01/26/22. deb012622

Flags Legend:

HB - Sample was received within holding time, but holding time exceeded by the Lab. Sample was not analyzed.



Laboratory Hits

Report: 979196 Project: RED-HILL

Group: RED-HILL-INCIDENT Stock

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: 01/08/2022 11:23

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: 979196 Project: RED-HILL

Group: RED-HILL-INCIDENT Stock

Honolulu Board of Water Supply

Erwin Kawata 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843 Samples Received on: 01/08/2022 11:23

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
PUNAN	ANI WELLS	HI0000331-2	251 (2022011000	<u>58)</u>		Samp	led on 01/07	/2022 094	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rhons				
01/11/22	01/11/22 14:13		- (OOD)OUS 1 140	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	(,	Oil		· ·		
01/12/22	01/13/22 14:26			(SW 8015B)	TPH Diesel	ND	mg/L	0.025	1
01/12/22	01/13/22 14:26	;		(SW 8015B)	TPH Motor Oil	ND	mg/L	0.05	1
		EPA 8015 -	- Jet Fuel 5 C8-C	:18					
01/12/22	01/13/22 14:26	3		(EPA 8015)	Jet Fuel 5	ND	mg/L	0.05	1
		EPA 8015 -	- Jet Fuel 8 C8-C	:18					
	01/13/22 14:26	;		(EPA 8015)	Jet Fuel 8	ND	mg/L	0.05	1
TRAVEL	L BLANK::P	UNANANI W	ELLS (20220110	<u>)0059)</u>		Samp	led on 01/07	/2022 094	5
		014 004 50	(OUD) O F	. 4!	ah a sa				
01/11/22	01/11/22 14:13		- (SUB)Gas Frac	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	NA (HB)	mg/L	0.02	1
			40 (0000044000	,	(30B)Gas i faction riyurocarbons	, ,	•		-
KALAU	AU WELLS I	HIUUUU331-2	48 (2022011000	<u>5U)</u>		Samp	led on 01/07	/2022 091	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/11/22	01/11/22 16:04	ļ		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
01/12/22	01/13/22 15:19)		(SW 8015B)	TPH Diesel	ND	mg/L	0.026	1
01/12/22	01/13/22 15:19)		(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1
		EPA 8015 -	- Jet Fuel 5 C8-C	:18					
01/12/22	01/13/22 15:19)		(EPA 8015)	Jet Fuel 5	ND	mg/L	0.052	1
			- Jet Fuel 8 C8-C	:18					
	01/13/22 15:19)		(EPA 8015)	Jet Fuel 8	ND	mg/L	0.052	1
TRAVEL	L BLANK::K	ALAUAO WI	ELLS (20220110	<u>0061)</u>		Samp	led on 01/07	/2022 091	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rhons				
01/11/22	01/11/22 16:04		(202)0001100	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	NA (HB)	mg/L	0.02	1



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

Date: 01-24-2022

EMAX Batch No.: 22A063

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 979196

Enclosed is the Laboratory report for samples received on 01/10/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Dat	e Matrix	Analysis
202201100058	A063-01 01/07/2	2 WATER	TPH GASOLINE
			TPH
202201100059	A063-02 01/07/2	2 WATER	CANCELLED
202201100060	A063-03 01/07/2	2 WATER	TPH GASOLINE
			TPH
202201100061	A063-04 01/07/2	2 WATER	CANCELLED
202201100058MS	A063-01M 01/07/2	2 WATER	TPH GASOLINE
			TPH DIESEL & MOTOR OIL
202201100058MSD	A063-01S 01/07/2	2 WATER	TPH GASOLINE
			TPH DIESEL & MOTOR OIL
202201100060MS	A063-03M 01/07/2	2 WATER	TPH JP-5
202201100060MSD	A063-03S 01/07/2	2 WATER	TPH JP-5

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

Eafon Analytical ्रैं eurofins

EMAX Laboratories, Inc. 3051 Fujita St. Ship To:

Torrance, CA 90505

Fax: 310-618-0818 Phone: 310-618-8889

Report Due: 01/17/2022 Folder #: 979196

Submittal Form 22 A 063

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 979196 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. Exp Date for requested tests + matrix Provide in each Report the Specified StateCertification # and

Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605 Invoices to: Eurofins Eaton Analytical, LLC Phone (626) 386-1165 Fax (626) 386-1122

Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016

Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com Samples from: HAWAII

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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

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

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REPORT ID: 22A063750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton Page 1 of 2

Page 2 of 42

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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

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Sample Event:

Sample type:

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

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

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Page 15 of 54 pages

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Date 1.10 Lough JUS Date _____Time ______ Page 2 of 2 REPORT ID: 22A063*50 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Page 3 of 42

Reference: Addendum SM02.11.1

Form: SM02F1

Type of I	Delivery	Airbill / Track	ing Number	ECN 22 A063
□ Fedex □ UPS □ GSO			Y	Recipient Maria Pivera
□ EMAX Courier \ Client De				Date 01/10/22 Time 16:05
COC INSPECTION Client Name	Client PM/FC	☐ Sampler Name	Sampling Date/Time	Sample ID Matrix
Address	Tel # / Fax #	☐ Courier Signature	Analysis Required	☐ Preservative (if any)
1	•	-	☐ Rad screening required	in Preservative (II any)
Safety Issues (if any)	☐ High concentrations exp	ected	□ Kau screening required	
Note:				
PACKAGING INSPECTI				
Container	Cooler	□ Box	□ Other	
Condition	Custody Seal	☐ Intact	☐ Damaged	
Packaging	Bubble Pack	☐ Styrofoam	☐ Popcorn ·	□ Sufficient □
Temperatures	Cooler 1 1.5 °C	□ Cooler 2°C	☐ Cooler 3°C	☐ Cooler 4 °C ☐ Cooler 5
(Cool, ≤6 °C but not frozen)	☐ Cooler 6°C	□ Cooler 7°C	☐ Cooler 8°C	☐ Cooler 9 °C ☐ Cooler 10
Thermometer:	A-S/N-210191066 a 1	Cooler 7 °C 1/1/4 B-S/N 210271396	C-S/N 210271399	D - S/N
Comments: Temperature is o	out of range. PM was informe	ed IMMEDIATELY.		
DISCREPANCIES				
LabSampleID	LabSampleContainerID		abel ID / Information	Corrective Action
	1-7	D7 Klabel reads	9:45	RI-label
1.3	4-7,11-14	022		JEN .
2,4		D8/DIS Did not reci	eve the trip blank	Cancel
		15to on COC		1 6001001
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☐ pH holding time requireme	nt for water samples is 15 m.	ins. Water samples for pH analy	ysis are received beyond 15 n	ninutes from sampling time.
NOTES/OBSERVATIONS	s. of Social whole	with sample	ID reads th	e correct time. 8:45.
NOTES/OBSERVATIONS	S: * Second label	WITH THE	ID reads th	e correct the s.43.
		•		
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LEGEND:				☐ Continue to next page.
Code Description-Sample Ma	•	Code Description-Sample Mana	agement	Code Description-Sample Management
D1 Analysis is not indicated i		D13 Out of Holding Time		R1 Proceed as indicated in □ COC □ Label
D2 Analysis mismatch COC	vs label	D14 Bubble is >6mm		R2 Refer to attached instruction
D3 Sample ID mismatch COO		015 No trip blank in cooler		R3 Cancel the analysis
D4 Sample ID is not indicated		D16 Preservation not indicated		R4 Use vial with smallest bubble first
D5 Container -[improper] [lea	aking] [broken]	D17 Preservation mismatch CO		R5 Log-in with latest sampling date and time+1 min
Date/Time is not indicated		D18 Insufficient chemical prese	ervative	R6 Adjust pH as necessary
D7 Date/Time inismatch COO		D19 Insufficient Sample		R7 Filter and preserved as necessary
D8) Sample listed in COC is n		D20 No filtration info for dissol	ved analysis	R8
D9 Sample received is not list	ted in COC	D21 No sample for moisture determ		R9
D10 No initial/date on correcti	ons in COC/label	DZZ) Jet Fuel 8 Anni	ysis not indicated on	R10
D11 Container count mismatch	COC vs received	D23	labe)	RII
D12 Container size mismatch (COC vs received	D24		R12
REVIEWS:	Maria 1/10.)	/// 1 -	
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Raman Singh

From:

Frank, Debbie < Debbie.Frank@eurofinset.com>

Sent:

Tuesday, January 11, 2022 10:15 AM

To:

Raman Singh; Haley, Davis Richard Beauvil; Elsa Anava

Cc: Subject:

RE: 979196; 22A063 discrepancy

Attachments:

22A063.pdf

Importance:

High

re: 979196: 202201100058 (EMAX# 22A063)

Client confirmed that sample#1 Punani was sampled at 0945.

we will update in our system, thank you for the notice.

Sincerely. Debbie Frank

Senior Analytical Services Manager stay healthy and stay free!

Eurofins Eaton Analytical, LLC. (EEA-Monrovia, CA, USA)

750 Royal Oaks Drive, Suite 100

Monrovia, CA, USA 91016 Phone: +1 626 386 1149 Mobile: +1 310 918 4308

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Website: http://www.eurofinsus.com/Eaton Email: Debbie.Frank@eurofinset.com

BUSINESS DAYS

The receiving department is open M-F 8:00 to 4:00 and Saturday mornings for FedEx and UPS deliveries. EEA does not have analysis available on the Weekends. Please contact your ASM, to coordinate RUSH Weekend Testing, if needed.

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From: Frank, Debbie

Sent: Tuesday, January 11, 2022 9:56 AM To: Raman Singh < RSingh@emaxlabs.com >

Cc: Richard Beauvil <RBeauvil@emaxlabs.com>; Elsa Anaya <EAnaya@emaxlabs.com>

Subject: RE: 979196; 22A063 discrepancy

IT looks like 0845 on the clients COC. I will verify with them.

Sincerely, Debbie Frank

Senior Analytical Services Manager stay healthy and stay free!

Eurofins Eaton Analytical, LLC. (EEA-Monrovia, CA, USA)

750 Royal Oaks Drive, Suite 100

Monrovia, CA, USA 91016 Phone: +1 626 386 1149 Mobile: +1 310 918 4308

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Website: http://www.eurofinsus.com/Eaton Email: Debbie.Frank@eurofinset.com

BUSINESS DAYS

The receiving department is open M-F 8:00 to 4:00 and Saturday mornings for FedEx and UPS deliveries. EEA does not have analysis available on the Weekends. Please contact your ASM, to coordinate RUSH Weekend Testing, if needed.

Please note that our standard Terms and Conditions apply to the prices quoted.

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From: Raman Singh < RSingh@emaxlabs.com > Sent: Tuesday, January 11, 2022 9:03 AM

To: Frank, Debbie < Debbie. Frank@eurofinset.com>

Cc: Richard Beauvil <RBeauvil@emaxlabs.com>; Elsa Anaya <EAnaya@emaxlabs.com>

Subject: 979196; 22A063 discrepancy

EXTERNAL EMAIL*

Hi Debbie,

Attached is the COC and SRFs for SDG 22A063. Please confirm the collection time for Sample #1 (punanani wells) COC = 0845 vs. labels = 0945

Thanks,

Raman Singh | Project Manager

EMAX Laboratories, Inc.

3051 Fujita St, Torrance, CA 90505 **NEW ADDRESS**

Tel: 310-618-8889 x 119

RSingh@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com.

Note:

EMAX will be closed for the following holidays. Please inform me ASAP for any short holds including BOD.

MLK Day 1/17/22

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

REPORTING CONVENTIONS

DATA QUALIFIERS:

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

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

ACRONYMS AND ABBREVIATIONS:

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

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

979196

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

SDG#: 22A063

Client : EUROFINS EATON ANALYTICAL

Project: 979196

SDG : 22A063

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 01/10/22 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. VG39A06B - 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. VG39A06L/VG39A06C 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/MSD was analyzed. Gasoline was within MS QC limits in A063-01M/A063-01S. 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: 22A063

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	======================================	ALYTICAL							SDG NO. : 22A063	
L.	979196								Instrument ID : GCT039	
:: ## ## !! !! !! !! !! !! !! !! !! !! !! !! !!	;;; ;;; ;;; ;;; ;;; ;;; ;;; ;;; ;;; ;;									11 11 11 11 11 11 11
					WATER	ER				
Client		Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	
1 1 1 1 1 1 1 1		1 1 1	1 1 1		1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 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		VG39A06B	_	Ä	01/11/2212:24	01/11/2212:24	EA11005A	EA11003A	22VG39A06 Method Blank	
LCS1W		VG39A06L	-	Ϋ́	01/11/2213:00	01/11/2213:00	EA11006A	EA11003A	22VG39A06 Lab Control Sample (LCS)	mple (LCS)
LCD1W		VG39A06C	-	AN.	01/11/2213:37	01/11/2213:37	EA11007A	EA11003A	22VG39A06 LCS Duplicate	
202201100058	•	A063-01	-	AN	01/11/2214:13	01/11/2214:13	EA11008A	EA11003A	22VG39A06 Field Sample	
202201100058MS	S	A063-01M	-	ΑN	01/11/2214:50	01/11/2214:50	EA11009A	EA11003A	22VG39A06 Matrix Spike Sample (MS)	ample (MS)
202201100058MSD	SO	A063-01S	-	ΑN	01/11/2215:26	01/11/2215:26	EA11010A	EA11003A	22VG39A06 MS Duplicate (MSD)	WSD)
202201100060		A063-03	.	ΑN	01/11/2216:04	01/11/2216:04	EA11011A	EA11003A	22VG39A06 Field Sample	

SAMPLE RESULTS

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:45

Date Received: 01/10/22 Date Extracted: 01/11/22 14:13

Project : 979196
Batch No. : 22A063
Sample ID : 202201100058 Date Analyzed: 01/11/22 14:13 Lab Samp ID: A063-01 Dilution Factor: 1

Matrix: WATER Lab File ID: EA11008A Ext Btch ID: 22VG39A06 % Moisture: NA Calib. Ref.: EA11003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0309 0.0400 77 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.

Final Volume: 5ml Sample Amount : 5ml

Analyzed by : SCerva Prepared by : SCerva

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:15

 Project
 : 979196
 Date Received: 01/10/22

 Batch No.
 : 22A063
 Date Extracted: 01/11/22 16:04

 Sample ID
 : 202201100060
 Date Analyzed: 01/11/22 16:04

 Sample ID : 202201100060
 Date Analyzed: 01/11/22 16:04

 Lab Samp ID: A063-03
 Dilution Factor: 1

 Lab File ID: EA11011A
 Matrix: WATER

Ext Btch ID: 22VG39A06 % Moisture: NA Calib. Ref.: EA11003A Instrument ID: 39

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT

Bromofluorobenzene 0.0312 0.0400 78 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

QC SUMMARIES

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/11/22 12:24

Project : 979196
Batch No. : 22A063
Sample ID : MBLK1W Date Received: 01/11/22 Date Extracted: 01/11/22 12:24 Date Analyzed: 01/11/22 12:24

Lab Samp ID: VG39A06B Dilution Factor: 1 Matrix: WATER Lab File ID: EA11005A Ext Btch ID: 22VG39A06 % Moisture: NA Calib. Ref.: EA11003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT ______ 0.0313 0.0400 78 60-140 Bromofluorobenzene

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.

Final Volume: 5ml Sample Amount : 5ml

Prepared by : SCerva Analyzed by : SCerva

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 979196 BATCH NO. : 22A063 METHOD : 5030B/8015B

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

SAMPLE ID : MBLK1W LCS1W LCD1W
LAB SAMPLE ID : VG39A06B VG39A06L VG39A06C
LAB FILE ID : EA11005A EA11006A EA11007A
DATE PREPARED : 01/11/22 12:24 01/11/22 13:37

DATE ANALYZED : 01/11/22 12:24 01/11/22 13:00 01/11/22 13:37

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	0.486	97	0.500	0.473	95	3	60-130	30
=======================================	:========	========		======	=========		.=======	=======	:== == ====	=======
SURROGATE PARAMETER		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Bromoflyorobenzene		0.0400	0.0418	105	0.0400	0.0418	105		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 : 979196 BATCH NO. : 22A063 METHOD : 5030B/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1 1

SAMPLE ID : 202201100058 202201100058MS 202201100058MSD LAB SAMPLE ID : A063-01
LAB FILE ID : EA11008A
DATE PREPARED : 01/11/22 14:13 A063-01M A063-01S EA11009A EA11010A 01/11/22 15:26 01/11/22 14:50 DATE ANALYZED : 01/11/22 14:13 01/11/22 14:50 01/11/22 15:26 PREP BATCH : 22VG39A06 22VG39A06 22VG39A06

CALIBRATION REF: EA11003A EA11003A EA11003A

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	0.472	94	0.500	0.466	93	1	50~130	30
=======================================	=======		=======================================	======	=======	:=======	=======	:======	=======================================	=======
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0415	104	0.0400	0.0397	99		60-140	•
=======================================		==========	========		========			=======	=======	:======

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

979196

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22A063

Client : EUROFINS EATON ANALYTICAL

Project: 979196

SDG : 22A063

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 01/10/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSA006WB - 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 DSA006WL. 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/MSD was analyzed. Diesel was within MS QC limits in 22A063-01M/22A063-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

Client : EUROFINS EATON ANALYTICAL

Project: 979196

SDG : 22A063

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 01/10/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSA006WB - 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 J5A006WL. 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 22A063-03M/22A063-03S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

Client: EUROFINS EATON ANALYTICAL

Project: 979196

SDG : 22A063

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 01/10/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSA006WB - 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 J8A006WL. 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 22A077-01M/22A077-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

 	· · · · · · · · · · · · · · · · · · ·			(
Client	: EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO. : ZZAU63
4	101050								Instrument ID : D5
Project	061616:						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	
					WATER	ER			
Client		Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes
- 1			1 1 1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	;	
MRI K1U		DSA006WB	-	Ν	01/13/2213:15	01/12/2214:00	LA13010A	LA13004A	22DSA006W Method Blank
10S1W		DSA006WL	_	N	01/13/2213:33	01/12/2214:00	LA13011A	LA13004A	22DSA006W Lab Control Sample (LCS)
202201100058	058	A063-01	_	AN	01/13/2214:26	01/12/2214:00	LA13014A	LA13004A	22DSA006W Field Sample
202201100	058MS	A063-01M	_	N	01/13/2214:44	01/12/2214:00	LA13015A	LA13004A	22DSA006W Matrix Spike Sample (MS)
202201100058MSD	058MSD	A063-01S	_	A	01/13/2215:01	01/12/2214:00	LA13016A	LA13004A	22DSA006W MS Duplicate (MSD)
202201100060	090	A063-03	_	NA	01/13/2215:19	01/12/2214:00	LA13017A	LA13004A	22DSA006W Field Sample

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

Client	· FIROFINS FATON ANALYTICAL	! ! !							SDG NO. : 22A063
Project	979196								Instrument ID : D5
		H SS 12		 			## ## ## ## ## ## ## ## ## ## ## ## ##	## 	
					WATER	ER			
Client		Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1	1 1 1	1 1 1	: : : : : : : : : : : : : : : : : : : :	1 1 1 1 1 1 1 1 1 1 1		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
MRI K1W		DSA006WB	_	NA	01/13/2213:15	01/12/2214:00	LA13010A	LA13005A	22DSA006W Method Blank
LCS1W		J5A006WL	-	NA	01/13/2213:50	01/12/2214:00	LA13012A	LA13005A	22DSA006W Lab Control Sample (LCS)
202201100058	158	A063-01	-	Ä	01/13/2214:26	01/12/2214:00	LA13014A	LA13005A	22DSA006W Field Sample
2022011000	091	A063-03	-	A	01/13/2215:19	01/12/2214:00	LA13017A	LA13005A	22DSA006W Field Sample
202201100060MS	160MS	A063-03M	_	N	01/13/2215:37	01/12/2214:00	LA13018A	LA13005A	22DSA006W Matrix Spike Sample (MS)
202201100060MSD	08M09t	A063-03S	_	NA	01/13/2215:54	01/12/2214:00	LA13019A	LA13005A	22DSA006W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

	ACTIVITY MOTAL CULTUCALLY	1				SDG NO. : 224063			SDG NO.	: 22A063
CLIENT	: EUKULING EALON ANALITICAL	CAL								
Project	: 979196								Instrumen	Instrument ID : D>
		***	=======================================			// 				
					WATER	ER				
Client	Labor	atory [aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	Prep.	
Sample ID	Sampl	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. !		1 1 1	1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	:	1 1 1	
MRI K1W	DSA006WB	J6WB	_	AN	01/13/2213:15	01/12/2214:00	LA13010A	LA13006A	22DSA006W	22DSA006W Method Blank
1 CS1W		JM90	•	ΑN	01/13/2214:08	01/12/2214:00	LA13013A	LA13006A	22DSA006W	22DSA006W Lab Control Sample (LCS)
2022011000		-01	-	Ϋ́	01/13/2214:26	01/12/2214:00	LA13014A	LA13006A	22DSA006W	22DSA006W Field Sample
202201100060	60 A063-03	-03	_	٧N	01/13/2215:19	01/12/2214:00	LA13017A	LA13006A	22DSA006W	22DSA006W Field Sample

SAMPLE RESULTS

: EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:45 Client

Date Received: 01/10/22

Project : 979196 Batch No. : 22A063 Sample ID : 202201100058 Date Extracted: 01/12/22 14:00 Date Analyzed: 01/13/22 14:26

Lab Samp ID: 22A063-01 Dilution Factor: 1

Matrix: WATER Lab File ID: LA13014A Ext Btch ID: 22DSA006W % Moisture: NA Calib. Ref.: LA13004A 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	0.449	0.500	90	60-130
Hexacosane	0.119	0.125	95	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume: 5ml

Analyzed by : SDeeso Prepared by : JMuert

: EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:45 Client Project : 979196 Date Received: 01/10/22

Date Extracted: 01/12/22 14:00 Batch No. : 22A063 Sample ID : 202201100058 Date Analyzed: 01/13/22 14:26

Dilution Factor: 1 Lab Samp ID: 22A063-01 Matrix: WATER Lab File ID: LA13014A % Moisture: NA Ext Btch ID: 22DSA006W Instrument ID: D5 Calib. Ref.: LA13005A

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT

0.449 0.500 60-130 Bromobenzene 95 0.119 0.125 60-130 Hexacosane

Notes:

: Reporting Limit RL Parameter H-C Range 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 : JMuert Prepared by

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:45

Project : 979196 Batch No. : 22A063 Sample ID : 202201100058 Date Received: 01/10/22 Date Extracted: 01/12/22 14:00 Date Analyzed: 01/13/22 14:26

Dilution Factor: 1 Lab Samp ID: 22A063-01 Matrix: WATER Lab File ID: LA13014A Ext Btch ID: 22DSA006W % Moisture: NA Calib. Ref.: LA13006A Instrument ID: D5

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	0.449 0.119	0.500 0.125	90 95	60-130 60-130

: Reporting Limit Parameter H-C Range c8-c18 JP8

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

: EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:15

Project : 979196
Batch No. : 22A063
Sample ID : 202201100060 Date Received: 01/10/22 Date Extracted: 01/12/22 14:00

Date Analyzed: 01/13/22 15:19 Lab Samp ID: 22A063-03 Dilution Factor: 1

Matrix: WATER Lab File ID: LA13017A % Moisture: NA Ext Btch ID: 22DSA006W Instrument ID: D5 Calib. Ref.: LA13004A

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.026	0.013	
Motor Oil	ND	0.052	0.026	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.501	0.525	95	60-130
Hexacosane	0.124	0.131	95	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 950ml

Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:15
Project : 979196 Date Received: 01/10/22
Batch No. : 22A063 Date Extracted: 01/12/22 14:00

Batch No. : 22A063 Date Extracted: 01/12/22 14:00
Sample ID : 202201100060 Date Analyzed: 01/13/22 15:19
Lab Samp ID: 22A063-03 Dilution Factor: 1

Lab File ID: LA13017A Matrix: WATER
Ext Btch ID: 22DSA006W % Moisture: NA
Calib. Ref.: LA13005A Instrument ID: D5

PARAMETERS	RESULTS	RL	MDL
	(mg/L)	(mg/L)	(mg/L)
JP5	ND	0.052	0.026

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.501	0.525	95	60-130
Hexacosane	0.124	0.131	95	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 : 950ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

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Client : EUROFINS EATON ANALYTICAL Date Collected: 01/07/22 09:15

Date Received: 01/10/22

Project : 979196
Batch No. : 22A063
Sample ID : 202201100060
Lab Samp ID: 22A063-03

Date Extracted: 01/12/22 14:00

Date Analyzed: 01/13/22 15:19 Dilution Factor: 1

Lab File ID: LA13017A

Matrix: WATER % Moisture: NA

Ext Btch ID: 22DSA006W Calib. Ref.: LA13006A

Instrument ID: D5

| PARAMETERS | RESULTS | RL     | MDL    |
|------------|---------|--------|--------|
|            | (mg/L)  | (mg/L) | (mg/L) |
| JP8        | ND      | 0.052  | 0.026  |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |  |
|----------------------|--------|---------|-----------|----------|--|
| Bromobenzene         | 0.501  | 0.525   | 95        | 60-130   |  |
| Hexacosane           | 0.124  | 0.131   | 95        | 60-130   |  |

Notes:

RL : 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 : 950ml

Final Volume : 5ml

Prepared by

: JMuert

Analyzed by : SDeeso

# **QC SUMMARIES**

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Client : EUROFINS EATON ANALYTICAL Date Collected: 01/12/22 14:00

Project : 979196
Batch No. : 22A063
Sample ID : MBLK1W Date Received: 01/12/22 Date Extracted: 01/12/22 14:00 Date Analyzed: 01/13/22 13:15

Lab Samp ID: DSA006WB Dilution Factor: 1 Matrix: WATER Lab File ID: LA13010A Ext Btch ID: 22DSA006W % Moisture: NA Calib. Ref.: LA13004A Instrument ID: D5

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| Diesel               | ND                | 0.025        | 0.012         |          |
| Motor Oil            | ND                | 0.050        | 0.025         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromobenzene         | 0.395             | 0.500        | 79            | 60-130   |
|                      | 0.115             | 0.125        | 92            | 60-130   |

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Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume: 5ml

Analyzed by : SDeeso Prepared by : JMuert

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

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 979196

: 22A063 : 3520C/8015B METHOD

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: WATER DILUTION FACTOR: 1

% MOISTURE:NA

LCS1W

SAMPLE ID : MBLK1W
LAB SAMPLE ID : DSA006WB
LAB FILE ID : LA13010A
DATE PREPARED : 01/12/22 14:00

DSA006WL

LA13011A

01/12/22 14:00

PREP BATCH : 22DSA006W

DATE ANALYZED : 01/13/22 13:15 01/13/22 13:33

22DSA006W

CALIBRATION REF: LA13004A

LA13004A

#### ACCESSION:

| PARAMETERS                 | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%)   |
|----------------------------|--------------------|--------------------|---------------------|---------------|------------------|
| Diesel                     | ND                 | 2.50               | 2.18                | 87            | 50-130           |
|                            | ===========        | ==========         |                     |               |                  |
| SURROGATE PARAMETERS       |                    | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%)   |
| Bromobenzene<br>Hexacosane |                    | 0.500<br>0.125     | 0.420<br>0.119      | 84<br>95      | 60-130<br>60-130 |
|                            | ========           |                    | ==========          | :======       | ========         |

MB: Method Blank sample LCS: Lab Control Sample

Date Collected: 01/12/22 14:00 Client : EUROFINS EATON ANALYTICAL

Date Received: 01/12/22 Date Extracted: 01/12/22 14:00

Project : 979196
Batch No. : 22A063
Sample ID : MBLK1W Date Analyzed: 01/13/22 13:15 Lab Samp ID: DSA006WB Dilution Factor: 1

Matrix: WATER Lab File ID: LA13010A % Moisture: NA Ext Btch ID: 22DSA006W Calib. Ref.: LA13005A Instrument ID: D5

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| JP5                  | ND                | 0.050        | 0.025         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| SURROGATE PARAMETERS |                   |              | 700072111     | 40 470   |

Bromobenzene 0.395 0.500 60-130 0.125 92 60-130 0.115 Hexacosane

Notes:

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

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 : 979196 BATCH NO. : 22A063 METHOD : 352OC/8015B

MATRIX : WATER % MOISTURE:NA

 DILUTION FACTOR:
 1
 1

 SAMPLE ID :
 MBLK1W LCS1W

 LAB SAMPLE ID :
 D\$A006WB J5A006WL

 LAB FILE ID :
 LA13010A LA13012A

LAB FILE ID : LA13010A LA13012A

DATE PREPARED : 01/12/22 14:00 01/12/22 14:00

DATE ANALYZED : 01/13/22 13:15 01/13/22 13:50

PREP BATCH : 22DSA006W 22DSA006W

CALIBRATION REF: LA13005A LA13005A

#### ACCESSION:

| PARAMETERS                              | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%)   |
|-----------------------------------------|--------------------|--------------------|---------------------|---------------|------------------|
| JP5                                     | ND                 | 2.50               | 1.80                | 72            | 30-160           |
| ======================================= | ==========         | =======            |                     | =======       | =========        |
| SURROGATE PARAMETERS                    |                    | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%)   |
| Bromobenzene<br>Hexacosane              |                    | 0.500<br>0.125     | 0.456<br>0.122      | 91<br>98      | 60-130<br>60-130 |

MB: Method Blank sample LCS: Lab Control Sample

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Client : EUROFINS EATON ANALYTICAL Date Collected: 01/12/22 14:00

 Project
 : 979196
 Date Received: 01/12/22

 Batch No.
 : 22A063
 Date Extracted: 01/12/22 14:00

 Sample ID
 : MBLK1W
 Date Analyzed: 01/13/22 13:15

Lab Samp ID: DSA006WB Dilution Factor: 1
Lab File ID: LA13010A Matrix: WATER
Ext Btch ID: 22DSA006W % Moisture: NA
Calib. Ref.: LA13006A Instrument ID: D5

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| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
|                      |        |         |           |          |
| Bromobenzene         | 0.395  | 0.500   | 79        | 60-130   |
| Hexacosane           | 0.115  | 0.125   | 92        | 60-130   |
|                      |        |         |           |          |

Notes:

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

Prepared by : JMuert Analyzed by : SDeeso

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

CLIENT : EUROFINS EAT PROJECT : 979196 BATCH NO. : 22A063 METHOD : 3520C/8015B

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MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSA006WB J8A006WL

LAB FILE ID : LA13010A LA13013A

DATE PREPARED : 01/12/22 14:00 01/12/22 14:00

#### ACCESSION:

| PARAMETERS                 | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%)   |
|----------------------------|--------------------|--------------------|---------------------|---------------|------------------|
| JP8                        | ND                 | 2.50               | 1.79                | 72            | 30-160           |
|                            | ========           | =========          | ========            | =======       |                  |
| SURROGATE PARAMETERS       |                    | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%)   |
| Bromobenzene<br>Kexacosane |                    | 0.500<br>0.125     | 0.491<br>0.130      | 98<br>104     | 60-130<br>60-130 |

MB: Method Blank sample LCS: Lab Control Sample

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

CLIENT : EUROFINS EATON ANALYTICAL PROJECT : 979196 BATCH NO. : 22A063 METHOD : 352OC/8015B

% MOISTURE:NA MATRIX : WATER

**DILUTION FACTOR: 1** 

202201100058MS 202201100058MSD SAMPLE ID : 202201100058 LAB SAMPLE ID : 22A063-01 22A063-01M 22A063-01S LA13016A LAB FILE ID : LA13014A
DATE PREPARED : 01/12/22 14:00 LA13015A 01/12/22 14:00 01/12/22 14:00 01/13/22 15:01 DATE ANALYZED : 01/13/22 14:26 01/13/22 14:44

22DSA006W 22DSA006W PREP BATCH : 22DSA006W CALIBRATION REF: LA13004A LA13004A LA13004A

#### ACCESSION:

| PARAMETERS                              | PSResult<br>(mg/L)                      | SpikeAmt<br>(mg/L)                      | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%)   | MaxRPD<br>(%) |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|------------------|---------------|
| Diesel                                  | ND                                      | 2.50                                    | 2.08               | 83           | 2.45               | 2.45                | 100           | 16         | 50-130           | 30            |
| ======================================= | ======================================= | ======================================= | ========           |              | ========           |                     | :======::     | ======     | ========         | ======        |
| SURROGATE PARAMETERS                    |                                         | SpikeAmt<br>(mg/L)                      | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) |            | QCLimit<br>(%)   |               |
| Bromobenzene<br>Hexacosane              |                                         | 0.500<br>0.125                          | 0.407<br>0.120     | 81<br>96     | 0.490<br>0.123     | 0.480<br>0.116      | 98<br>95      |            | 60-130<br>60-130 |               |

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

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

CLIENT : EUROFINS EATON ANALYTICAL PROJECT : 979196
BATCH NO. : 22A063
METHOD : 352OC/8015B

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MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202201100060

202201100060MS

LAB SAMPLE ID : 22A063-03

22A063-03M

202201100060MSD 22A063-03S

LAB FILE ID : LA13017A
DATE PREPARED : 01/12/22 14:00

LA13018A

LA13019A

DATE ANALYZED : 01/13/22 15:19

01/12/22 14:00 01/12/22 14:00 01/13/22 15:37 01/13/22 15:54

PREP BATCH : 22DSA006W CALIBRATION REF: LA13005A

22DSA006W LA13005A

22DSA006W LA13005A

ACCESSION:

| PARAMETERS                              | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%)   | MaxRPD<br>(%) |
|-----------------------------------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|------------------|---------------|
| JP5                                     | ND                 | 2.58               | 2.05               | 80           | 2.60               | 2.35                | 90            | 14         | 30-160           | 30            |
| ======================================= | :========          | ========           |                    |              | ========           |                     | ======        |            |                  | =======       |
| SURROGATE PARAMETERS                    |                    | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) |            | QCLimit<br>(%)   |               |
| Bromobenzene<br>Hexacosane              |                    | 0.515<br>0.129     | 0.454<br>0.121     | 88<br>94     | 0.520<br>0.130     | 0.500<br>0.128      | 96<br>98      |            | 60-130<br>60-130 |               |

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

# EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 979002

BATCH NO. : 22A077

METHOD : 3520C/8015B

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MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

 SAMPLE ID
 : 202201070092
 202201070092MS
 202201070092MSD

 LAB SAMPLE ID
 : 22A077-01
 22A077-01M
 22A077-01S

 LAB FILE ID
 : LA13020A
 LA13021A
 LA13022A

 DATE PREPARED
 : 01/12/22 14:00
 01/12/22 14:00
 01/12/22 14:00

 DATE ANALYZED
 : 01/13/22 16:12
 01/13/22 16:30
 01/13/22 16:48

ACCESSION:

| PARAMETERS                              | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%)   | MaxRPD<br>(%) |
|-----------------------------------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|------------------|---------------|
| JP8                                     | ND                 | 2.72               | 2.51               | 92           | 2.75               | 2.44                | 89            | 3          | 30-160           | 30            |
| ======================================= | =========          | =========          |                    | ======       | ========           |                     | =======       |            | =========        | =======       |
| SURROGATE PARAMETERS                    |                    | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) |            | QCLimit<br>(%)   |               |
| Bromobenzene<br>Hexacosane              |                    | 0.545<br>0.136     | 0.633<br>0.130     | 116<br>95    | 0.550<br>0.138     | 0.620<br>0.139      | 113<br>101    |            | 60-130<br>60-130 |               |

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