

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

Fax: 808-550-5018

Date of Issue
02/14/2022

Lew Fank
EUROFINS KATON
ANALYTICAL, LLC

DEB: Debbie L Frank

Project Manager



Report: 978210 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

<sup>\*</sup> NELAP/TNI Recognized Accreditation Bodies

# ISO/IEC 17025:2917 Accredited Method List

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

https://www.eurofinsus.com/Eaton

			www.eu
Test(s)	Method(s)	Potable	Waste
Test(s)	wethou(s)	Water *	Water
Enterococci	Enterolert	Х	Х
Escherichia coli	SM 9221 B.1		
(Enumeration)	SM 9221 F	Х	
Fecal Coliform (P/A and	SM 9221 C		
	(MTF/EC), SM 9221	Х	X
Enumeration)	E (MTF/EC)		
Fecal Streptococci and	SM 9230 B	x	х
Enterococci	OW 3230 D	^	^
Heterotrophic Bacteria	SM 9215 B	Х	
Legionella	Legiolert®	Х	
	Idexx		
Pseudomonas aeruginosa	Pseudalert	Х	
Total Coliform (P/A and			
	SM 9221A, SM 9221B, SM 9221 C	Х	Х
Enumeration)	SZZTB, OW SZZT O		
Total Coliform, Total			
Coliform with Chlorine	SM 9221 B	Х	Х
Present			
Total Coliform/E. coli (P/A and			
Enumeration, Idexx Colilert,	SM 9223	Х	
Idexx Colilert 18, Colisure)			
Total Microcystins and	EPA 546	Х	
Nodularins	014.0040		
Yeast and Mold	SM 9610	Х	
1.2.2 Trichlerenrenene	CA SRL 524M-		
1,2,3-Trichloropropane		х	
(TCP) at 5 PPT	TCP		
1,4-Dioxane	EPA 522	Х	
2 2 7 9 TCDD	Modified EPA	X	
2,3,7,8-TCDD	1613 B	^	
Acrylamide	+LCMS 2440)	Х	
Algal Toxins/Microcystin	+ LCMS 3570	X	
Alkalinity	SM 2320B		
Aikaiinity		Х	Х
	EPA 350.1,		
Ammonia	SM 4500-NH3		Х
	Н		
Asbestos	EPA 100.2	Х	Х
Bicarbonate Alkalinity as	SM 2330 B		
HCO3		Х	Х
BOD/CBOD	SM 5210 B		Х
Bromate	*LCMS- 2447	Х	Α
Carbonate as CO3	SM 2330 B		
		Х	Х
Carbonyls	EPA 556	Х	Х
Chemical Oxygen Demand	EPA 410.4,		х
Onemical Oxygen Bernand	SM 5220D		^
Chlorinated Acids	EPA 515.4	Х	
	Palin Test		
011 : 5: :1	Chlordio X Plus,		
Chlorine Dioxide	SM 4500-CLO2	Х	
	D		
Chlorine, Free, Combined,	_		
Total Residual.	SM 4500-CI G	.,	
		Х	
Chloramines			
Color	SM2120B	Х	
Conductivity	EPA 120.1,	x	Х
Conductivity	SM 2510B	^	^
Corrosivity (Langelier			
Index), Carbonate as CO3,	OM 0000 D		
Hydroxide as OH	SM 2330 B	Х	
Calculated			
Calculated	SM 4500-CN		
Cyanide (Amenable)		Х	х
0	G CM 4500CN 5		
Cyanide (Free)	SM 4500CN F	Х	Х
Cyanide (Total)	EPA 335.4	Х	Х
Cyanogen Chloride	+ 335 Mod	x	
(Screen)	(WC-24467)	^	
Diquat and Paraquat	EPA 549.2	Х	
DBP and HAA	SM 6251 B	Х	
Dissolved Organic Carbon	SM 5310 C	X	
Dissolved Organic Carbon  Dissolved Oxygen	SM 4500-O G	^	
			Х
EDB/DCBP/TCP	EPA 504.1	Х	
	T. Control of the Con	x	
EDB/DBCP and	EPA 551 1		l .
Disinfection Byproducts	EPA 551.1		
1	EPA 551.1 + WC-2454	X	
Disinfection Byproducts EDTA and NTA	+ WC-2454		
Disinfection Byproducts	* WC-2454 EPA 548.1,	x x	
Disinfection Byproducts EDTA and NTA Endothall	<sup>+</sup> WC-2454 EPA 548.1, <sup>+</sup> (LCMS-2445)	х	¥
Disinfection Byproducts EDTA and NTA Endothall Fluoride	* WC-2454 EPA 548.1, *(LCMS-2445) SM 4500F C	x x	X
Disinfection Byproducts EDTA and NTA Endothall Fluoride Glyphosate	† WC-2454 EPA 548.1, †(LCMS-2445) SM 4500F C EPA 547	X X X	X
Disinfection Byproducts EDTA and NTA Endothall Fluoride	* WC-2454 EPA 548.1, *(LCMS-2445) SM 4500F C	x x	X

s.com/Eaton			***
Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	х	х
Hardness	SM 2340 B	Х	Х
Hexavalent Chromium	EPA 218.6,	Х	Х
Hexavalent Chromium	EPA 218.7,	Х	
Hexavalent Chromium	SM 3500-Cr B		Х
Inorganic Anions and DBPs	EPA 300.0	X	Х
Norganic Anions and DBPs	EPA 300.1	X	
Kjeldahl Nitrogen	EPA 351.2		X
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	х	
Nitrate/Nitrite Nitrogen	EPA 353.2	Х	Х
Odor	SM2150B	X	^
Organohalide Pesticides	EPA 505	X	
and PCB	CM 4500D F		
Ortho Phosphate Oxyhalides Disinfection	SM 4500P E	X	
Byproducts	EPA 317.0	X	
Perchlorate	EPA 331.0	X	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	х	
PPCP and EDC	<sup>+</sup> LCMS-2443	Х	
рН	EPA 150.1	Х	х
	SM 4500-H+ B *WC 2493 (EPA		
Phenolics – Low Level	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	X	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		Х
Sulfite	SM 4500-SO3 B	X	Х
Surfactants	SM 5540C	Х	Х
Taste and Odor	SM 6040 E	Х	
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	x	
Turbidity	EPA 180.1	Х	Х
Uranium by ICP/MS	EPA 200.8	Х	
UV 254 Organic	SM 5910B	Х	
Constituents		^	
VOCs	* (GCMS 2412)	X	
VOCs	by EPA 524.2 modified	Х	

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

<sup>(+)</sup> In-House Method



# **Acknowledgement of Samples Received**

Addr: Honolulu Board of Water Supply

630 South Beretania Street Public Service Bldg." Room 308

Honolulu, HI 96843

Attn: Erwin Kawata Phone: 808-748-5091 Client ID: HONOLULU Folder #: 978210 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 04, 2022** at **1223**. 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
202201040139	HALAWA SHAFT-331-241-TP40	1		01/03/2022 0940
	(SUB)Gas Fraction Hydrocarbons TPH 8015 Jef Fuel 8	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
202201040140	TRAVEL BLANK::HALAWA SHA	FT-331-241-TP401		01/03/2022 0940
	(SUB)Gas Fraction Hydrocarbons			

# **Test Description**

Reported: 02/14/2022 Page 1 of 1



# **CHAIN OF CUSTODY RECORD**

01286

(check for yes)

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample) SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,... (check for yes) COMMENTS SAMPLER x (check for yes), OR Raining NON-COMPLIANCE SAMPLES SAMPLES REC'D DAY OF COLLECTION? SAMPLES CHECKED AGAINST COC BY: SAMPLES LOGGED IN BY: REGULATION INVOLVED: No Ice SEE ATTACHED BOTTLE ORDER FOR ANALYSES METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx // UPS / DHL / Area Fast / Top Line / Other: Wet Ice (check for yes) Type of samples (circle one): ROUTINE - Requires state forms COMPLIANCE SAMPLES Thawed °C (Compliance: 4 ± 2 °C) °C (Compliance: 4 ± 2 °C) Partially Frozen Veekly Red Hill ATAO 0J31: EUROFINS EATON ANALYTICAL USE ONLY: 1 day CONDITION OF BLUE ICE: Frozen ATAO OJEI: Colton / No. California / Arizona 2 day CFW SAMPLE TEMP RECEIVED AT: · XIATAM Red Hill STD 1 wk X 3 day LOGIN COMMENTS: SAMPLE GROUP: CLIENT LAB ID PROJECT CODE: HI0000331-241 Monrovia Eaton Analytical HALAWA SHAFT coc ID: SAMPLE ID TAT requested: rush by adv notice only 750 Royal Oaks Drive, Suite 100 **BWS HONOLULU** 800 566 LABS (800 566 5227) Monrovia, CA 91016-3629 TO BE COMPLETED BY SAMPLER: COMPANY/AGENCY NAME: Phone: 626 386 1100 Fax: 626 386 1101 Honolulu EEA CLIENT CODE: 840 TIME SAMPLE 322 **3TA** SAMPLE

TIME 200 -3-2022 -2022 SL = Sludge Honolulu Board of Water Supply Honolulu Board of Water Supply BW = Bottled Water SW = Storm Water SEAW = Sea Water WW = Waste Water **Derek Dotson** Derek Dotson PRINT NAME FW = Other Finished Water RGW = Raw Ground Water SIGNATURE RELINQUISHED BY: RELINQUISHED BY RECEIVED BY: RECEIVED BY: SAMPLED BY

ပ

Temp Blank: 0,5

O = Other - Please Identify

SO = Soil

CFW = Chlor(am)inated Finished Water

RSW = Raw Surface Water

\* MATRIX TYPES:

Temperature Blank

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Tracking #

Prepared By

# of Coolers

Code

Date Shipped

Kit Order for Honolulu Board of Water Supply

Eaton Analytical

: eurofins

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

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

Created Date & Time: 12/10/2021 7:10:31PM

Note: Sampler Please return this paper with your samples

Client ID: HONOLULU

RED-HILL Bottle Orders Project Code:

Kit #: 307670

Created By: - [AutoGenerated] Deliver By: 12/22/2021

STG: Bottle Orders

Ice Type: G

Pre Registered

Red-Hill Expanded List (Albuquerque+) Group Name:

HALAWA SHAFT - Every 1 week o Description:

C20525101 exp 05312023 PO#/JOB#:

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

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

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

UN DOT # Total

Phone: 808-748-5091

Fax: 808-550-5018

6 Bottle Qty - Type [preservative information] @625A\_Physis C, @625BN\_Physis C, @625PAH\_Physis\_TICS\_C 8 - 1L amber.glass [ 1 ml Thio 8% ] 8-1L amber glass [1 ml Thio 8%] TPH 8015 Diesel and Motor Oil\_C, TPH 8015 Jet Fuel 5\_C, TPH 8015 Jet Fuel 8 C Sample Tests

3 - 40ml amber glass vial [25mg Ascorbic+drop 2ml 1:1 HGL] 3-40ml amber glass vial [25mg AA+ H20+10 drop 1:1 HGL] 2 - 40ml amber glass vial [ 1 drop Thio (8%) + H20 ] 3 - 40ml amber glass vial [ 1 drop Thio (8%) ]

UN1789 UN1789

3 2 Sum Bottles: 32

4 40ml amber glass vial [no preservative]

@8015 Ethanol Subbed Sum Tests:

@VOASDWA G-plus-plus-TICs-TBG

8015 Gas\_C TB 8015 Gas C

@VOASDWA G plus plus TIGs G

Comments

2nd MS/MSD

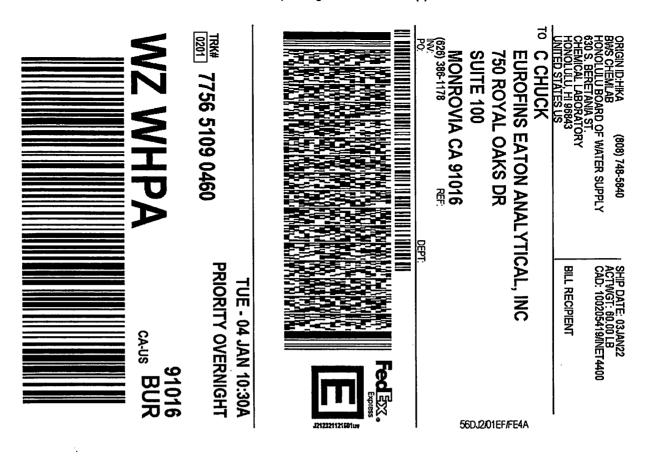
331-241 HALAWA SHAFT

SAMPLER: Eight 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES and Nine1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES.

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$ D = \frac{10}{100} $ (Observation = $\frac{1}{100}$ °C) (Corr.Factor $\frac{1}{100}$ °C) (Final = $\frac{1}{100}$ °C) (Final = $\frac{1}{100}$ °C)	4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection)	5) pH Check, Manufacturer: Lot Number:pH strip type: 0 - 14 or Expiration Date 6) Chlorine check, Manufacturer: Sansafe, Lot No.: Expiration Date: Results	7) Headspace:  Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)  Headspace:  Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)  Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)	Samp ID Bottle # None/<6 >6mm Test Samp ID Bottle # None/<6 >6mm Test Samp ID Bottle # Samp	IR Gun ID = 40 (Observation= 0 °C)  TYPE OF ICE: Real Synthetic No Ice  METHOD OF SHIPMENT: Pick-Up / Walk-In Fedex  Compliance Acceptance Criteria:  1) Chemistry: >0, ≤6°C, not frozen (NELAP) (If received 2) Microbiology, Distribution: <10°C, not frozen (can in 3) Microbiology, Surface Water: <10°C (if received after 3) Microbiology Surface Water: <10°C (if	nal = 1 1 S °C)  zen X Partially Frozen Thawed  Line / Other:  on)  same day as sample collection, within 8 hours)
	/ation= 1 °C) (Corr.Factor 0 °C) (Final = 1 1 S °C)  No Ice	vation= 1 °C) (Corr.Factor °C) (Final = 1 1 S °C)  No Ice	valion= 1 °C) (Corr.Factor %) (Final = 1 1 5 °C)  No lce	ration=   C   Corr.Factor C   CONDITION OF ICE: Frozen   Partially Frozen Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Partially Frozen   Tha    No los   CONDITION OF ICE: Frozen   Tha    No los   Content   Tha    No los	EEAFolder Number: 978710	NTERNAL CHAIN OF CUSIODY RECORD  SAMPLE TEMP RECEIVED:  Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not SAMPLES REC'D DAY OF COLLECTION? Yes / No
real syluleuc Noice	VELAP) (if received after 24 hrs of sample collection)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C) (if received after 2 hours of sample collection)  Where the same day as sample collection, within 8 hours)  2 * (Observation**** C) (Corr.Factor*** C) (Final **** C)  2 * (Observation**** C) (Corr.Factor*** C) (Final ***** C)  3 * (Observation**** C) (Corr.Factor*** C) (Final ***** C)  4 * (Observation**** C) (Corr.Factor*** C) (Final ***** C)	VELAP) (if received after 24 hrs of sample collection)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  C) (if received after 2 hours of sample collection)  The  1 = (Observation***	VELAP) (if received after 24 hrs of sample collection)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  O'C (if received after 2 hours of sample collection)  Y  1 = (Observation****	VELAP) (If received after 24 hrs of sample collection)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  C) not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  C) (corr.Factor	FedEx	/ DHL / Area Fast / Top Line / Other:
FedEx UPS / DHL / Area Fast / Top Line / Oth	Or not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)         Or not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)         Or (if received after 2 hours of sample collection)         3y         1 = [Observation=	C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  1° C (if received after 2 hours of sample collection)  2 **(Observation**	VELAP) (If received after 24 filts of sample collection)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  C) (if received after 2 hours of sample collection)  The   1 = [Observation*	C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  C) not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours).  C) (if received after 2 hours of sample collection)  Y  1 = (Observation****	Compliance Acceptance Criteria:	
FedEx UPS / DHL / Area Fast / Top Line / Oth	C, not frozen (can be 210 C) received of the collection)  )°C (if received after 2 hours of sample collection)  1 = (observation=	)°C (if received after 2 hours of sample collection)  y  1 = (Observation***	C, not frozen (can be 210 C if received after 2 hours of sample collection)  (c) (if received after 2 hours of sample collection)  (d) (if received after 2 hours of sample collection)  (e) (if received after 2 hours of sample collection)  (f) (con.Factor c) (con.Factor c) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	C, not frozen (can be 210 C if received after 2 hours of sample collection)  (the	1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received	ter 24 hrs of sample collection)
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)	)°C (if received after 2 hours of sample collection)  1 = (Observation**** C) (Corr.Factor**** C) (Final ****** C) (Corr.Factor**** C) (Final ********* C) (Corr.Factor***** C) (Final ************ C) (Corr.Factor************************************	)°C (if received after 2 hours of sample collection)  1 the 1 = (Observation****	3x (Confection)  (the 1=(Observation*	The strip type: 0 - 14 or	2) Microbiology, Distribution: < 10°C, not frozen (can	≥10°C if received on ice the same day as sample collection, within 8 hours)
METHOD OF SHIPMENT: Pick-Up / Walk-In FedEx UPS / DHL / Area Fast / Top Line / Other:	the   = (Observation= 'C) (Corr.Factor 'C) (Final = 'C)   4 = (Observation= 'C) (Corr.Factor 'C) (Final = 'C)   4 = (Observation= 'C) (Corr.Factor 'C) (Final = 'C)   4 = (Observation= 'C) (Corr.Factor 'C) (Final = 'C)   4 = (Observation= 'C) (Corr.Factor 'C)   4 = (Observation= 'C) (Corr.Factor 'C)   4 = (Observation= 'C) (Corr.Factor 'C)   4 = (Observation= 'C)	the 3 = (Observation C) (Corr.Factor C) (Final = C) 4 = (Observation = C) (Corr.Factor C) (Final = C) 4 = (Observation = C) (Corr.Factor C) (Final = C	st be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)  Lot Number:pH strip type: 0 - 14 or Expiration Date Sansafe. Lot No.: Expiration Date: Results	the    Cobservation   Conf.Factor   Conf.Fac	3) Microbiology, Surface Water: < 10°C (if received after out of temperature range for both Chemistry and Microbiology	hours of sample collection)
k-In FedEx UPS / DHL / Area Fast / Top Line / Other:  VELAP) (If received after 24 hrs of sample collection)  C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)  C) (If received after 2 hours of sample collection)  Y  1 **Coherentor**  C) (Corr.Factor**  C) (Final**  C) (Final**  C) (Corr.Factor**  C) (Corr.F		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)	,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)  acturer: Lot Number:pH strip type: 0 - 14 or Expiration Date  Manufacturer: Sansafe. Lot No.: Expiration Date: Results	,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)  acturer: Lot Number:pH strip type: 0 - 14 or Expiration Date  Manufacturer: Sansafe. Lot No.: Expiration Date: Results  No Samples with Headspace: Samples with Headspace (see below):  Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)  Headspace Soncerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International client	T the	·c) 2 = (Observation=
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# 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.

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

1 800 566 LABS (1 800 566 5227)

**Laboratory Comments** 

**Report:** 978210 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 Gas, TPH Diesel, Motor Oil and Jet Fuels are submitted by Emax Laboratories



**Laboratory Hits** 

Report: 978210 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

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: 01/04/2022 1223

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: 978210 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: 01/04/2022 1223

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
HALAW	A SHAFT-33	31-241-TP40	1 (202201040139	<u>))</u>		Sam	pled on 01/03	/2022 094	0
04/00/00	04/00/00 47:00		- (SUB)Gas Frac	•		ND		0.00	4
01/06/22	01/06/22 17:22			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
01/06/22	01/07/22 14:59	)		(SW 8015B)	TPH Diesel	ND	mg/L	0.027	1
01/06/22	01/07/22 14:59	)		(SW 8015B)	TPH Motor Oil	ND	mg/L	0.055	1
		EPA 8015 -	Jet Fuel 5 C8-C	18					
01/06/22	01/07/22 14:59	)		(EPA 8015)	Jet Fuel 5	ND	mg/L	0.055	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
	01/07/22 14:59	)		(EPA 8015)	Jet Fuel 8	ND	mg/L	0.055	1
TRAVEL	BLANK::H	ALAWA SHA	AFT-331-241-TP4	101 (20220104	<u>40140)</u>	Sam	pled on 01/03	/2022 094	0
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
01/06/22	01/06/22 19:05	;		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



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

# **Laboratory QC Summary**

Report: 978210 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

Honolulu Board	of	Water	Supply
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Analytical Batch:

Analysis Date:

Analyzed by:



**Laboratory QC** 

Report: 978210 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

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

1 800 566 LABS (1 800 566 5227)

Honolulu Board of Water Supply

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

by

Analytical Batch: Analysis Date:



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

1 800 566 LABS (1 800 566 5227)

# **Laboratory Hits**

Report: 978210 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

Samples Received on: 01/04/2022 1223

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

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



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

Date: 01-18-2022

EMAX Batch No.: 22A033

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 978210

Enclosed is the Laboratory report for samples received on 01/06/22. The data reported relate only to samples listed below :

.....

Sample ID	Control # Col Date	Matrix	Analysis
202201040139	A033-01 01/03/22	WATER	TPH GASOLINE
			TPH
202201040140	A033-02 01/03/22	WATER	TPH GASOLINE
202201040139MS	A033-01M 01/03/22	WATER	TPH GASOLINE
202201010203110			TPH DIESEL & MOTOR OIL
202201040139MSD	A033-01S 01/03/22	WATER	TPH GASOLINE
			TPH DIESEL & MOTOR OIL

The results are summarized on the following pages.

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

Sincerely yours,

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

22 4033

Date: 1/6/2022

\*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 978210 Job # 1000014 Eaton Analytical

eurofins 🚉

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

Torrance, CA 90505

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

Report Due: 01/07/2022 Folder #:

978210

Submittal Form

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.

Provide in each Report the Reports: Jackie Contreras Sub-Contracting Administrator Results must have Complete data & QC with Approval Signature.

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

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

EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com

Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

nvoices to: Eurofins Eaton Analytical, LLC

Specified StateCertification # and Exp Date for requested tests + matrix

Samples from: HAWAII

RUSH 3 day

PWSID Static ID: Clip Code Sample Date & Time Matrix 01/03/22 0940 DW Sample Point ID: Facility ID: Client Sample ID for reference on HALAWA SHAFT-331-241-TP401 Sample Event: 202201040139 Sample type: Sample ID

S | |

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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Client Sample ID for reference onl 40 TRAVEL BLANK: HALAWA SHAFT-331-241-TP401	Sample Event:

S

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

Temp: (1) 5.6 (2) 5.1

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

6127 Time 1105

Date ( Date

Sample Control

Relinquished by:

Sample Control

12 Time Time Time

An Acknowledgement of Receipt is requested to attn. Jackie Contreras

Page 1 of 1

Date Date

REPORT ID: 22A033750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Page 2 of 35

Received by:

Received by:

Relinquished by:

Page 16 of 49 pages

Reference: Addendum SM02.11.1

Form: SM02F1

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Address	☑ Tel # / Fax #		☐ Courier Signature	Analysis Required	☐ Preservative (if any)	TAT
Safety Issues (if any)	☐ High concentrations exp	ected	☐ From Superfund Site	☐ Rad screening required	` ,,	
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(Cool, ≤6 °C but not frozen)	Cooler 6°C  A - S/N 210191066	<b>/</b> □ Coo	oler 7 °C	□ Cooler 8°C	□ Cooler 9°C	☐ Cooler 10°C
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□ pH holding time requirement	nt for water samples is 15 m	ins. Wa	ater samples for pH analys	sis are received beyond 15 n	ninutes from sampling time.	
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NOTES/OBSERVATIONS	:			- <u> </u>		
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D1 Analysis is not indicated in	· ·		Out of Holding Time	Person	R1 Proceed as indicated in COO	•
			Bubble is >6mm		1//	Lauci
					R2 Refer to attached instruction	
D3 Sample ID mismatch COC			No trip blank in cooler		R3 Cancel the analysis	_
D4 Sample ID is not indicated			Preservation not indicated in		R4 Use vial with smallest bubble f	
D5 Container -[improper] [leak			Preservation mismatch COC		R5 Log-in with latest sampling dat	e and time+1 min
D6 Date/Time is not indicated	in		Insufficient chemical preser	vative	R6 Adjust pH as necessary	
D7 Date/Time mismatch COC	vs label	D19	Insufficient Sample		R7 Filter and preserved as necessar	у
D8 Sample listed in COC is no	t received	D20	No filtration info for dissolv	red analysis	R8	
D9 Sample received is not liste	ed in COC	D21	No sample for moisture determ	nination	R9	
D10 No initial/date on correction	ns in COC/label	D22	•		RIO	
D11 Container count mismatch		D23			R11	
D12 Container size mismatch Co	- i	D24			R12	1/0
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# **REPORTING CONVENTIONS**

# **DATA QUALIFIERS:**

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

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

# **ACRONYMS AND ABBREVIATIONS:**

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

# **DATES**

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

# LABORATORY REPORT FOR

# **EUROFINS EATON ANALYTICAL**

978210

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

SDG#: 22A033

Client: EUROFINS EATON ANALYTICAL

Project: 978210

SDG : 22A033

## METHOD 5030B/8015B

## TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 01/06/22 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. VGH7A02B - 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. VGH7A02L/VGH7A02C 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 A033-01M/A033-01S. Refer to Matrix QC summary form for details.

# Surrogate

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

# Sample Analysis

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

# LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS	Client : EUROFINS EATON ANALYTICAL							SDG NO.	: 22A033
								Instrument ID : H7	1D : H7
		11 11 11 11 11 11 11	11 11 11 11 11 11 11						
				M	WATER				
Client	Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch No	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 1 1 1 1 1 1 1 1 1 1	1 1 1 1		
MRI K1W	VGH7A02B	_	AN	01/06/2215:39	01/06/2215:39	AA06005A	AA06003A	22VGH7A02 M	22VGH7AO2 Method Blank
W1/07	VGH7A02L	-	N	01/06/2216:14	01/06/2216:14	AA06006A	AA06003A	22VGH7A02 L.	22VGH7A02 Lab Control Sample (LCS)
3.00	VGH7A02C	-	AN	01/06/2216:48	01/06/2216:48	AA06007A	AA06003A	22VGH7A02 L	22VGH7A02 LCS Duplicate
202201040139	A033-01	-	AN	01/06/2217:22	01/06/2217:22	AA06008A	AA06003A	22VGH7A02 F	22VGH7A02 Field Sample
202201040139MS	A033-01M	-	ΑN	01/06/2217:57	01/06/2217:57	AA06009A	AA06003A	22VGH7A02 M	22VGH7AO2 Matrix Spike Sample (MS)
202201040139MSD	A033-01S	-	Ν	01/06/2218:31	01/06/2218:31	AA06010A	AA06003A	22VGH7A02 M	22VGH7AO2 MS Duplicate (MSD)
202201040140	A033-02	-	Ā	01/06/2219:05	01/06/2219:05	AA06011A	AA06003A	22VGH7A02 F	22VGH7AO2 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: 01/03/22 09:40 Project : 978210 Date Received: 01/06/22 Batch No. : 22A033 Date Extracted: 01/06/22 17:22 Sample ID : 202201040139 Date Analyzed: 01/06/22 17:22

Lab Samp ID: A033-01 Dilution Factor: 1 Matrix: WATER Lab File ID: AA06008A % Moisture: NA Ext Btch ID: 22VGH7A02 Instrument ID: H7 Calib. Ref.: AA06003A

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

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

SURROGATE PARAMETERS RESULT SPK\_AMT. %RECOVERY QC LIMIT

Bromofluorobenzene 0.0347 0.0400 87 60-140 \_\_\_\_\_

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Prepared by : SCer Final Volume : 5ml

Analyzed by : SCerva : SCerva

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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/03/22 09:40

Project : 978210
Batch No. : 22A033
Sample ID : 202201040140 Date Received: 01/06/22 Date Extracted: 01/06/22 19:05

Date Analyzed: 01/06/22 19:05 Lab Samp ID: A033-02 Dilution Factor: 1

Lab File ID: AA06011A Matrix: WATER Ext Btch ID: 22VGH7A02 % Moisture: NA Calib. Ref.: AA06003A Instrument ID: H7

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

RESULTS RL MDL (mg/L) (mg/L) (mg/L) PARAMETERS -----ND 0.020 0.010 GASOL I NE

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0354 0.0400 88 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 Prepared by : SCerva Final Volume: 5ml

Analyzed by : SCerva

# **QC SUMMARIES**

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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/06/22 15:39 Date Received: 01/06/22

Project : 978210 Batch No. : 22A033 Sample ID : MBLK1W Date Extracted: 01/06/22 15:39 Date Analyzed: 01/06/22 15:39

Dilution Factor: 1 Lab Samp ID: VGH7A02B Lab File ID: AA06005A Matrix: WATER Ext Btch ID: 22VGH7A02 % Moisture: NA Instrument ID: H7 Calib. Ref.: AA06003A

\_\_\_\_\_

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

SPK AMT %RECOVERY QC LIMIT SURROGATE PARAMETERS RESULT Bromof Luorobenzene 0.0364 0.0400 91 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

: 978210

BATCH NO. : 22A033 METHOD : 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : MBLK1W LAB SAMPLE ID : VGH7A02B

LCS1W VGH7A02L LCD1W VGH7A02C

LAB FILE ID : AA06005A DATE PREPARED : 01/06/22 15:39 AA06006A

AA06007A 01/06/22 16:48

DATE ANALYZED : 01/06/22 15:39 PREP BATCH : 22VGH7A02

01/06/22 16:14 01/06/22 16:14 22VGH7A02

01/06/22 16:48 22VGH7A02

CALIBRATION REF: AA06003A

AA06003A

AA06003A

ACCESSION:

PARAMETERS	MBResult	SpikeAmt	LCSResult	LCSRec	SpikeAmt	LCDResult	LCDRec	RPD	QCLimit	MaxRPD
	(mg/L)	(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)	(%)	(%)	(%)
Gasoline	ND	0.500	0.457	91	0.500	0.467	93	2	60-130	30

SURROGATE PARAMETER	SpikeAmt	LCSResult	LCSRec	SpikeAmt	LCDResult	LCDRec	QCLimit
	(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)	(%)
Bromofluorobenzene	0.0400	0.0478	120	0.0400	0.0456	114	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 : 978210 BATCH NO. : 22A033 METHOD : 5030B/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1 1

SAMPLE ID : 202201040139 202201040139MS 202201040139MSD
LAB SAMPLE ID : A033-01 A033-01M A033-01S

LAB SAMPLE ID : A033-01 A033-01M A033-01S

LAB FILE ID : AA06008A AA06009A AA06010A

DATE PREPARED : 01/06/22 17:22 01/06/22 17:57 01/06/22 18:31

DATE ANALYZED : 01/06/22 17:22 01/06/22 17:57 01/06/22 18:31

PREP BATCH : 22VGH7A02 22VGH7A02 22VGH7A02

 PREP BATCH
 : 22VGH7A02
 22VGH7A02
 22VGH7A02

 CALIBRATION REF: AA06003A
 AA06003A
 AA06003A

ACCESSION:

Bromofluorobenzene

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	0.438	88	0.500	0.449	90	2	50-130	30
=======================================	:========		===========	======	========	=========	=======	======	=======	=======
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	

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

0.0400 0.0447 112 0.0400 0.0439 110

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

60-140

# LABORATORY REPORT FOR

# **EUROFINS EATON ANALYTICAL**

978210

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

SDG#: 22A033

Client: EUROFINS EATON ANALYTICAL

Project: 978210

SDG : 22A033

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

One (1) water sample was received on 01/06/22 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. DSA004WB - 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 DSA004WL. 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 22A033-01M/22A033-01S. 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: 978210

SDG : 22A033

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 01/06/22 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. DSA004WB - 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 J5A004WL. 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 22A034-01M/22A034-01S. 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: 978210

SDG : 22A033

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 01/06/22 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. DSA004WB - 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 J8A004WL. 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 22A034-03M/22A034-03S. 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

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.

REPORT ID: 22A033

# LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO.	: 22A033
								Instrument	Instrument ID : D5
				. AM	WATER				
Client	Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	Datelime	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	
M81K112	DSA004WB	-	A	01/07/2213:48	01/06/2214:45	LA07009A	LA07003A	22DSA004W N	22DSA004W Method Blank
LCS1W	DSA004WL	_	Ä	01/07/2214:06	01/06/2214:45	LA07010A	LA07003A	22DSA004W L	2DSA004W Lab Control Sample (LCS)
202201040139	A033-01	-	ΑN	01/07/2214:59	01/06/2214:45	LA07013A	LA07003A	22DSA004W F	2DSA004W Field Sample
202201040139MS	A033-01M	_	Ä	01/07/2215:16	01/06/2214:45	LA07014A	LA07003A	22DSA004W N	:2DSA004W Matrix Spike Sample (MS)
202201040139MSD	A033-01S	-	A	01/07/2215:34	01/06/2214:45	LA07015A	LA07003A	22DSA004W N	22DSA004W MS Duplicate (MSD)

# LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

client	lient : EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO.	SDG NO. : 22A033
									Instrumen	instrument ID : D5
				       			11 11 11 11 11 11 11 11 11 11			
					WATER	TER.				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	ı 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	: : : : : : : : : : : : : : : : : : : :	; ; ; ; ;	
MBLK1W		DSA004WB	-	ΑN	01/07/2213:48	01/06/2214:45	LA07009A	LA07004A	22DSA004W	22DSA004W Method Blank
LCS1W		J5A004WL	-	¥	01/07/2214:23	01/06/2214:45	LA07011A	LA07004A	22DSA004W	2DSA004W Lab Control Sample (LCS)
202201040139	139	A033-01	-	A	01/07/2214:59	01/06/2214:45	LA07013A	LA07004A	22DSA004W	22DSA004W Field Sample

FN - Filename % Moist - Percent Moisture

# LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

Client	Client : FURDEINS EATON ANALYTICAL	======================================	# # # # # # # # # # # # # # # # # # #	## ## ## ## ## ## ##					======================================	: 22A033
	978210								Instrument ID : D5	: D5
				          				;		
					WATER	ER				
Client		Laboratory Dilution	Dilution	*	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample 1D		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	
		1 1 1 1 1	1 1 1	: : :	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	;	:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MBLK1W		DSA004WB	<b>-</b>	A	01/07/2213:48	01/06/2214:45	LA07009A	LA07005A	22DSA004W Method Blank	Blank
I CS1W		J8A004WL	-	¥	01/07/2214:41	01/06/2214:45	LA07012A	LA07005A	22DSA004W Lab Co	22DSA004W Lab Control Sample (LCS)
202201040139	39	A033-01	-	Ϋ́	01/07/2214:59	01/06/2214:45	LA07013A	LA07005A	22DSA004W Field Sample	Sample

FN - Filename % Moist - Percent Moisture

# **SAMPLE RESULTS**

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Client : EUROFINS EATON ANALYTICAL Date Collected: 01/03/22 09:40

Project : 978210 Date Received: 01/06/22
Batch No. : 22A033 Date Extracted: 01/06/22 14:45
Sample ID : 202201040139 Date Analyzed: 01/07/22 14:59

Lab Samp ID: 22A033-01 Dilution Factor: 1
Lab File ID: LA07013A Matrix: WATER
Ext Btch ID: 22DSA004W % Moisture: NA
Calib. Ref.: LA07003A Instrument ID: D5

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

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.027 0.055	0.014 0.027	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.490 0.126 =======	0.545 0.136 ======	90 92 	60-130 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 : 920ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

Client : EUROFINS EATON ANALYTICAL Date Collected: 01/03/22 09:40
Project : 978210 Date Received: 01/06/22
Batch No. : 22A033 Date Analyzed: 01/07/22 14:59 Sample ID : 202201040139

Lab Samp ID: 22A033-01 Dilution Factor: 1 Matrix: WATER Lab File ID: LA07013A Ext Btch ID: 22DSA004W % Moisture: NA Calib. Ref.: LA07004A Instrument ID: D5

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

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.055	0.027	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.490 0.126	0.545 0.136	90 92	60-130 60-130

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

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume: 5ml Sample Amount : 920ml Analyzed by : SDeeso Prepared by : JMuert

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

: EUROFINS EATON ANALYTICAL Date Collected: 01/03/22 09:40 Client Project : 978210

Date Received: 01/06/22 Batch No. : 22A033 Date Extracted: 01/06/22 14:45

Date Analyzed: 01/07/22 14:59 Sample ID : 202201040139 Dilution Factor: 1 Lab Samp ID: 22A033-01

Matrix: WATER Lab File ID: LA07013A % Moisture: NA Ext Btch ID: 22DSA004W Calib. Ref.: LA07005A Instrument ID: D5

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

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.055	0.027	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.490 0.126	0.545 0.136	90 92	60-130 60-130

Notes:

: Reporting Limit RL 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 : 920ml Final Volume: 5ml

Analyzed by : SDeeso Prepared by : JMuert

# **QC SUMMARIES**

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Client : EUROFINS EATON ANALYTICAL Date Collected: 01/06/22 14:45

Project : 978210 Date Received: 01/06/22
Batch No. : 22A033 Date Extracted: 01/06/22 14:45
Sample ID : MBLK1W Date Analyzed: 01/07/22 13:48

Lab Samp ID: DSA004WB Dilution Factor: 1
Lab File ID: LA07009A Matrix: WATER
Ext Btch ID: 22DSA004W % Moisture: NA

Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.025 0.050	0.012 0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.406	0.500	81	60-130

Hexacosane 0.117 0.125 93 60-130

Notes:

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

Calib. Ref.: LA07003A

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 : 978210

PROJECT : 978210 BATCH NO. : 22A033 METHOD : 3520C/8015B

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

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1

CALIBRATION REF: LA07003A

SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSA004WB DSA004WL
LAB FILE ID : LA07009A LA07010A
DATE PREPARED : 01/06/22 14:45
DATE ANALYZED : 01/07/22 13:48 01/07/22 14:06
PREP BATCH : 22DSA004W 22DSA004W

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.29	92	50-130
**************************************	=======================================		=========	========	:=======
			1000 L		001 :-:+

LA07003A

4	SpikeAmt	LCSResult	LCSRec	QCLimit
SURROGATE PARAMETERS	(mg/L)	(mg/L)	(%)	(%)
Bromobenzene	0.500	0.536	107	60-130
Hexacosane	0.125	0.122	98	60-130

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

MB: Method Blank sample LCS: Lab Control Sample

 Client
 : EUROFINS EATON ANALYTICAL
 Date Collected: 01/06/22 14:45

 Project
 : 978210
 Date Received: 01/06/22

 Batch No.
 : 22A033
 Date Extracted: 01/06/22 14:45

 Sample ID
 : MBLK1W
 Date Analyzed: 01/07/22 13:48

Lab Samp ID: DSA004WB Dilution Factor: 1 Lab File ID: LA07009A Matrix: WATER Ext Btch ID: 22DSA004W % Moisture: NA Instrument ID: D5 Calib. Ref.: LA07004A

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

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	0.406 0.117	0.500 0.125	81 93	60-130 60-130
=======================================	==========	:=======		========

Notes:

RL : Reporting Limit 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

: JMuert Analyzed by : SDeeso Prepared by

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

CLIENT

: EUROFINS EATON ANALYTICAL : 978210

PROJECT

BATCH NO. : 22A033 METHOD : 352OC/8015B

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MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1

SAMPLE ID : MBLK1W LAB SAMPLE ID : DSA004WB LCS1W

J5A004WL

LAB FILE ID : LA07009A LA07011A

DATE PREPARED : 01/06/22 14:45 01/06/22 14:45

DATE ANALYZED : 01/07/22 13:48 01/07/22 14:23

PREP BATCH : 22DSA004W 22DSA004W

CALIBRATION REF: LA07004A

LA07004A

#### ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.16	86	30-160
=======================================	.=======	========		=========	========
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.541 0.121	108 97	60-130 60-130

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MB: Method Blank sample LCS: Lab Control Sample

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Client : EUROFINS EATON ANALYTICAL Date Collected: 01/06/22 14:45

 Project : 978210
 Date Received: 01/06/22

 Batch No. : 22A033
 Date Extracted: 01/06/22 14:45

 Sample ID : MBLK1W
 Date Analyzed: 01/07/22 13:48

Lab Samp ID: DSA004WB
Lab File ID: LA07009A
Ext Btch ID: 22DSA004W
Calib. Ref.: LA07005A

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

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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	0.406 0.117	0.500 0.125	81 93	60-130 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 PROJECT : 978210

PROJECT : 978210 BATCH NO. : 22A033 METHOD : 3520C/8015B

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MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSA004WB J8A004WL

LAB FILE ID : LA07009A LA07012A

LAB FILE ID : LA07009A LA07012A

DATE PREPARED : 01/06/22 14:45

DATE ANALYZED : 01/07/22 13:48

PREP BATCH : 22DSA004W 22DSA004W

CALIBRATION REF: LA07005A LA07005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	2.08	83	30-160
=======================================	=======	:=====================================	=========	========	========

	SpikeAmt	LCSResult	LCSRec	QCLIMIT
SURROGATE PARAMETERS	(mg/L)	(mg/L)	(%)	(%)
Bromobenzene	0.500	0.499	100	60-130
Hexacosane	0.125	0.119	95	60-130

MB: Method Blank sample LCS: Lab Control Sample

# EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

% MOISTURE:NA MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 202201040139

LAB SAMPLE ID : 22A033-01

LAB FILE ID : LA07013A

DATE PREPARED : 01/06/22 14:45 202201040139MS 202201040139MSD 22A033-01S 22A033-01M LA07015A LA07014A 01/06/22 14:45 01/06/22 14:45 DATE ANALYZED : 01/07/22 14:59 01/07/22 15:16 01/07/22 15:34 22DSA004W 22DSA004W PREP BATCH : 22DSA004W LA07003A LA07003A CALIBRATION REF: LA07003A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.78	2.56	92	2,85	2.69	94	5	50-130	30
		=========	=========	======	========	========	=======	======	.=======	
		SpikeAmt	MSResult	MSRec	SpikeAmt	MSDResult	MSDRec		QCLimit	
SURROGATE PARAMETERS		(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)		(%)	
Bromobenzene		0.555	0.573	103	0.570	0.593	104		60-130	
Hexacosane		0.139	0.142	102	0.142	0.144	101		60-130	

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

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

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT

: 978568

BATCH NO. : 22A034 METHOD : 352OC/8015B

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: WATER MATRIX **DILUTION FACTOR: 1** 

% MOISTURE:NA

SAMPLE ID : 202201050306

202201050306MSD

LAB SAMPLE ID : 22A034-01

202201050306MS 22A034-01M

LAB FILE ID : LAO7016A

DATE PREPARED : 01/06/22 14:45

LA07017A

22A034-01S LA07018A 01/06/22 14:45

DATE ANALYZED : 01/07/22 15:52

01/06/22 14:45 01/07/22 16:10

01/07/22 16:27 22DSA004W

PREP BATCH : 22DSA004W CALIBRATION REF: LA07004A

22DSA004W LA07004A

LA07004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.72	2.36	87	2.78	2.51	90	6	30-160	30
=======================================	========	=========	==========	======	========	========	=======	======	========	======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.545 0.136	0.681 0.173	125 127	0.555 0.139	0.552 0.125	99 90		60-130 60-130	

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

### EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 978568 BATCH NO. : 22A034 METHOD : 3520C/8015B

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 MATRIX
 : WATER
 % MOISTURE:NA

 DILUTION FACTOR:
 1
 1

 SAMPLE ID
 : 202201050308
 202201050308MSD

202201050308MSD

22A034-03S LAB SAMPLE ID : 22A034-03 22A034-03M LA07021A LA07022A LAB FILE ID : LAO7019A DATE PREPARED : 01/06/22 14:45 01/06/22 14:45 01/06/22 14:45 01/07/22 17:39 01/07/22 17:21 DATE ANALYZED : 01/07/22 16:45 22DSA004W 22DSA004W PREP BATCH : 22DSA004W LA07005A LA07005A CALIBRATION REF: LA07005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.95	2.77	94	2.85	2.70	95	3	30-160	30
SURROGATE PARAMETERS	========	spikeAmt	MSResult (mg/L)	====== MSRec (%)	SpikeAmt	MSDResult (mg/L)	MSDRec (%)	=======	QCLimit (%)	=======
SURRUGATE PARAMETERS		(IIIg/L/	(IIIg/L/			(3/ - /				-
Bromobenzene Hexacosane		0.590 0.148	0.596 0.131	101 89	0.570 0.142	0.576 0.132	101 93	-	60-130 60-130	

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