**Eaton Analytical** 

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



DEB: Debbie L Frank

Project Manager

Report:987973 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.

ORAT

Utah ELCP CA00006



**Eaton Analytical** 

# STATE CERTIFICATION LIST

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

# \* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 T | 626-386-1100 F | 866-988-3757 www.EurofinsUS.com/Eaton

# 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.eu	rofinsus.	.com/Eaton
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	1		www.eu
Test(s)	Method(s)	Potable	Waste
		Water *	Water
Enterococci	Enterolert	Х	х
Escherichia coli	SM 9221 B.1	x	
(Enumeration)	SM 9221 F SM 9221 C		
Fecal Coliform (P/A and	(MTF/EC), SM 9221	х	х
Enumeration)	E (MTF/EC)		
Fecal Streptococci and	SM 9230 B	х	x
Enterococci			
Heterotrophic Bacteria	SM 9215 B	X	
Legionella	Legiolert®	X	
Pseudomonas aeruginosa	Idexx Pseudalert	х	
Total Coliform (P/A and			
Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	х
Total Coliform, Total			
Coliform with Chlorine		х	x
Present	SM 9221 B	~	~
Total Coliform/E. coli (P/A and			
Enumeration, Idexx Colilert,	SM 9223	x	
Idexx Colilert 18, Colisure)			
Total Microcystins and Nodularins	EPA 546	Х	
Yeast and Mold	SM 9610	х	
Teast and Wold	011 30 10	~	
1,2,3-Trichloropropane	CA SRL 524M-	х	
(TCP) at 5 PPT	TCP	^	
1,4-Dioxane	EPA 522	Х	
2.3.7.8-TCDD	Modified EPA	х	
1-1 1-	1613 B	<u> </u>	
Acrylamide	<sup>+</sup> LCMS 2440)	Х	
Algal Toxins/Microcystin	+ LCMS 3570	Х	
Alkalinity	SM 2320B	Х	х
	EPA 350.1,		
Ammonia	SM 4500-NH3		х
	H		
Asbestos	EPA 100.2	X	Х
Bicarbonate Alkalinity as	SM 2330 B	х	х
HCO3	0M 5040 D		
BOD/CBOD	SM 5210 B		Х
Bromate Carbonate as CO3	*LCMS- 2447 SM 2330 B	X	×
Carbonyls	EPA 556	X	X
Carbonyis	EPA 410.4,	X	X
Chemical Oxygen Demand	SM 5220D		x
Chlorinated Acids	EPA 515.4	х	
Childhildted / totas	Palin Test	~	
	Chlordio X Plus,		
Chlorine Dioxide	SM 4500-CLO2	х	
	D		
Chlorine, Free, Combined,			
Total Residual,	SM 4500-CI G	x	
Chloramines			
Color	SM2120B	х	
Conductivity	EPA 120.1,	×	×
Conductivity	SM 2510B	X	X
Corrosivity (Langelier			
Index), Carbonate as CO3,	SM 2330 B	х	
Hydroxide as OH	0	<u>^</u>	
Calculated			
Cyanide (Amenable)	SM 4500-CN	х	х
	G		
Cyanide (Free)	SM 4500CN F	X	Х
Cyanide (Total)	EPA 335.4	X	Х
Cyanogen Chloride (Screen)	+ 335 Mod	х	
(Screen) Diquat and Paraquat	(WC-24467) EPA 549.2	v	
Diquat and Paraquat DBP and HAA	SM 6251 B	X	
DBP and HAA Dissolved Organic Carbon	SM 5310 C	X X	
Dissolved Organic Carbon Dissolved Oxygen	SM 4500-O G	^	x
EDB/DCBP/TCP	EPA 504.1	х	^
EDB/DEBP/TCP			
Disinfection Byproducts	EPA 551.1	х	
EDTA and NTA	+ WC-2454	X	
	EPA 548.1,		
Endothall	<sup>+</sup> (LCMS-2445)	x	
Fluoride	SM 4500F C	х	х
Glyphosate	EPA 547	X	
Glyphosate and AMPA	+ LCMS-3618	X	
Gross Alpha and Gross Beta	EPA 900.0	х	х

s.com/Eaton		Potable	Waste
Test(s)	Method(s)	Water *	Waster
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	х	Х
Hexavalent Chromium	EPA 218.6,	х	х
Hexavalent Chromium	EPA 218.7,	х	
Hexavalent Chromium	SM 3500-Cr B		Х
Inorganic Anions and DBPs	EPA 300.0	х	x
Norganic Anions and DBPs	EPA 300.1	х	
Kjeldahl Nitrogen	EPA 351.2		Х
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	х	
Nitrate/Nitrite Nitrogen	EPA 353.2	X	х
Odor	SM2150B	x	~
Organohalide Pesticides		~	
and PCB	EPA 505	х	
Ortho Phosphate	SM 4500P E	х	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
	EPA 533, EPA		
Perfluorinated Alkyl Acids	537, EPA 537.1	х	
PPCP and EDC	+ LCMS-2443	х	
рН	EPA 150.1 SM 4500-H+ B	х	x
Phenolics – Low Level	*WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad- 2374)	х	
Radon-222	SM 7500RN	х	
Residue (Filterable)	SM 2540C	х	х
Residue (Non-Filterable)	SM 2540D		х
Residue (Total)	SM 2540B		х
Residue (Volatile)	EPA 160.4		х
Semi-Volatile Compounds	EPA 525.2	х	
Silica	SM 4500-SiO2 C	х	х
Sulfide	SM 4500-S D		х
Sulfite	SM 4500-SO3 B	х	х
Surfactants	SM 5540C	х	х
Taste and Odor	SM 6040 E	х	
Total Organic Carbon	SM 5310 C	Х	Х
Total Phenols	EPA 420.1		х
Total Phenols	EPA 420.4	х	х
Triazine Pesticides and their Degradates	+LCMS-3617	х	
Turbidity	EPA 180.1	х	х
Uranium by ICP/MS	EPA 200.8	х	
UV 254 Organic Constituents	SM 5910B	х	
VOCs	EPA 524.2	х	
VOCs	+ (GCMS 2412) by EPA 524.2	x	
	modified		

(\*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.
(+) In-House Method

	Eaton Analytical	knowledgement of Samples Received	
		knowledgement of Samples Necerved	
Addr:	Honolulu Board of Water Supply	Client ID: HONOLULU	
	630 South Beretania Street	Folder #: 987973	
	Public Service Bldg." Room 308	Project: RED-HILL	
	Honolulu, HI 96843	Sample Group: Red-Hill Expanded List	
		(Albuquerque+)	
,	Erwin Kawata	Project Manager: Debbie L Frank	
Phone:	808-748-5091	Phone: (626) 386-1149	
		PC # C20525101 eve 05312023	
listed be	elow each sample. If this informatic	PO #: C20525101 exp 05312023 you on <b>February 16, 2022</b> at <b>1803</b> . They have been scheduled for the tests n is incorrect, please contact your service representative. Thank you for	
listed be		you on February 16, 2022 at 1803. They have been scheduled for the tests	
listed be using Et	elow each sample. If this information urofins Eaton Analytical, LLC.	you on <b>February 16, 2022</b> at <b>1803</b> . They have been scheduled for the tests n is incorrect, please contact your service representative. Thank you for Sample Date	
listed be using Eu ample #	elow each sample. If this informatic urofins Eaton Analytical, LLC. Sample ID	you on <b>February 16, 2022</b> at <b>1803</b> . They have been scheduled for the tests n is incorrect, please contact your service representative. Thank you for Sample Date	
listed be using Eu ample #	elow each sample. If this informatic urofins Eaton Analytical, LLC. Sample ID AIEA WELLS PUMP 2 (331-004	you on <b>February 16, 2022</b> at <b>1803</b> . They have been scheduled for the tests in is incorrect, please contact your service representative. Thank you for Sample Date I-WL103) 02/14/2022 1048	
listed be using Eu ample # 02202161176	elow each sample. If this informatic urofins Eaton Analytical, LLC. Sample ID AIEA WELLS PUMP 2 (331-004 (SUB)Gas Fraction Hydrocarbons TPH 8015 Jef Fuel 8	you on <b>February 16, 2022</b> at <b>1803</b> . They have been scheduled for the tests in is incorrect, please contact your service representative. Thank you for Sample Date I-WL103) 02/14/2022 1048 TPH 8015 Diesel and Motor Oil TPH 8015 Jet Fuel 5	
listed be using Eu ample #	elow each sample. If this informatic urofins Eaton Analytical, LLC. Sample ID AIEA WELLS PUMP 2 (331-004 (SUB)Gas Fraction Hydrocarbons	you on <b>February 16, 2022</b> at <b>1803</b> . They have been scheduled for the tests in is incorrect, please contact your service representative. Thank you for Sample Date I-WL103) 02/14/2022 1048 TPH 8015 Diesel and Motor Oil TPH 8015 Jet Fuel 5	

# **Test Description**

Page 1 of 1

	CHAN		OLLECTION? (check for yes)	No Ice	(check for yes)	5	SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA)	X (check for yes). <u>OR</u> for each test for each sample)		SAMPLER COMMENTS				Temp Blank: °C	0 = Other - Please Identify	DATE TIME	February 14, 2022	2115/2022 1248)	246.22 1603		PAGE 1 OF 1
	CHAIN OF CUSTODY RECORD	SAMPLES CHECKED AGAINST COC BY: SAMPLES LOGGED IN BY	( Compliance: 4 ± 2 °C ) ( Compliance: 4 ± 2 °C )	Thawed     Wet Ice       FedEx / UPS / DHL / Area Fast / Top Line / Other.	(check for yes)	- COMPLIANCE SAMPLES NON-COMPLIANCE SAMP - Requires state forms REGULATION INVOLVED	NE	.E ORDER D (enter nu							Water     BW = Bottled Water     SO = Soil       Water     SW = Storm Water     SL = Sludge	COMPANY/TITLE	Honolulu Board of Water Supply	Honolulu Board of Water Supply	lech		
	OF CUS		°C (Com		>	8	Type of samp	Iist ANALY		Red Hill Feb 2022	X				SEAW = Sea Water WW = Waste Water				100		
	CHAIN		D AT: / Arizona	EICE: Frozen Par ENT: Pick-Up / Walk-In /			ILL		_ 2 day 1 day _	• XIATAM ATAO DIBIR ATAO DIBIR	-				d Finished Water /ater	PRINT NAME	Low Bailey	Arew Bailey	Mescen		
	CHAIN EUROFINS EATON ANALYTICAL USE ONLY.	LOGIN COMMENTS:	SAMPLE TEMP RECEIVED AT:	CONDITION OF BLUE ICE: Frogen METHOD OF SHIPMENT: Pick-Up		PROJECT CODE:	RED HILL	SAMPLE GROUP:	STD 1 wk X_3 day	CLIENT LAB ID	HI0000331-004				CFW = Chlor(am)inated Finished Water FW = Other Finished Water				Wow		
	Eaton Analytical			5 5227)	ER:		NOLULU	COC ID:	notice only	SAMPLE ID	ump P2				* MATRIX TYPES: RSW = Raw Surface Water RGW = Raw Ground Water	SIGNATURE		A			
	🖏 eurofins	750 Royal Oaks Drive, Suite 100 Monrovia. CA 91016-3629	Phone: 626 386 1100 Fax: 626 386 1101	800 566 LABS (800 566 5227)	TO BE COMPLETED BY SAMPLER.	COMPANY/AGENCY NAME:	BWS HONOLULU	r code:	TAT requested: rush by adv notice only		Aiea Wells Pump P2				TYPES: RSW RGW		KA-	DBY / /	IN A		
Č,	t, eu	750 Roy Monrovia	Phone: 6 Fax: 626	800 566	TO BE COMP	COMPANY		EEA CLIENT CODE	TAT request	ajamaz dtad atad atar ataz ataz ataz	02/14/22 [043				* MATRIX				RECEIVED BY:	RECEIVED BY:	

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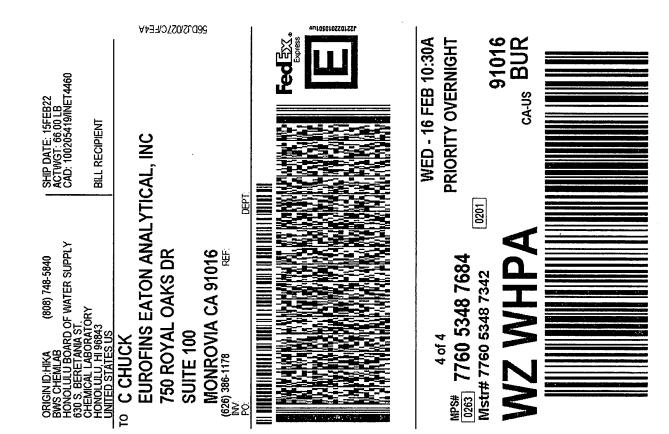
Page 5 of 49 pages

1.

NIS       INTERNAL CHAIN OF CUSTODY RECORD         Ratori Analytical       SAMPLE TEMP RECEIVED:         NAMA       SAMPLES RECIPED:         NAMA       SAMPLES RECIP DAY OF COLLECTION?	) = <u>65.0</u> (Observation= <u>6.0</u> °C) (Corr.Factor °C) (Final = <u>5.8</u> °C) 3eal Synthetic <u></u> No lee CONDITION OF ICE: Frozen <u></u> Partially Frozen Thawed NIA	METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEX / UPS / DHL / Area Fast / Top Line / Other:	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)	ge for both Chemistry and Microbiology a does not confirm, then measure the 3 - (Observatione 'C) (Cerr.Factor 'C) (Finale 'C) 2 - (Observatione 'C) (Cerr.Factor 'C) (Finale 'C) 3 - (Observatione 'C) (Cerr.Factor 'C) (Finale 'C) 4 - (Observatione 'C) (Cerr.Factor 'C) (Finale '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 DateResults: 6) Chlorine check. Manufacturer: Sansafe. Lot No.: Expiration Date: Results	A and Radon No Samples with Headspace: Samples with Headspace (see below): Headspace (see below): Headspace (see below): Exempt from headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Headspace concerns: Methods 515.4, HA4(9251,652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Remp from headspace concerns: Methods 515.4, HA4(9251,652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Remp from headspace concerns: Methods 515.4, HA4(9251,652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Remp from headspace concerns: Methods 815.4, HA4(9251,652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Remp from headspace concerns: Methods 815.4, HA4(9251,652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Remp from the samp ID Bottle # Nonel-CB Semm Test Samp ID B	which have dissimilar headspace (i.e. potential sampling errors):	BIONATURE BOOMPANTITLE DATE THE THE	12 Wierr Marcon Eurofins Eaton Analytical 2.16.22 1725	SIGNATURE COMPANYTITLE DATE TIME	5T COC BY: Eurofins Eaton Analytical	
eurofins   Eaton / Eaton / Eaton / Eaton / Eaton /	IR Gun ID = 65.0 TYPE OF ICE: Real Synth	METHOD OF SHIPMENT: Pick-Up Compliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not fi	2) Microbiology, Distributio 3) Microbiology, Surface W	Of introducing to provide the second activity of the manual intervention of temperature range for both Chemistry and Microbiology samples and lemperature does not confirm, then measure the temperature of each quadrants of each quadrants	4 Dioxin (1613 or 2,3,7,8 T	5) pH Check. Manufacturer: 6) Chlorine check. Manufa	7) VOA and Radon 7) Headspace: Head Exempt from headspace co. Same D. Bottle # None/<6 >6mm Tec	Note Semnle IDe which have dissimilar heads	NOLE CRITICIE LO WILLOUTIRA CLUC C	RECEIVED BY:	SIGNATURE	SAMPLES CHECKED AGAINST COC BY:	

DA FO-FRM5504 (9.28.21) Ver 9

Page \_\_\_\_ of \_\_\_\_



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Use the Print button on this page to print your label to your laser or inkjet printer.
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FedEx Service Guide. precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current waiming: Use only the printed original table for sinpping. Osing a protocopy of this table for sinpping purposes is inaddulent and could result in the current 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, be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, be responsible for any claim in excess of \$100 per package, one and the result of heter, profit, see current FedEx second in the current FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, settorery's fees, costs, and other forms of damage whether direct, incidental, consequential or special is limited to the greater of \$100, e.g. jeweiry, automiced declared value. Recover form FedEx for any floss theoremented loss.Maximum for items of extraordinary value is \$1,000, e.g. jeweiry, profite matter and the master of \$100 or the automiced declared contracter and the our Service Guide within strict time limits, see current for second tables. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jeweiry, profite matter and the mast be filed within strict time limits, see current forms of the service for the mast be filed within strict time limits, see current for the service master of the service for the service



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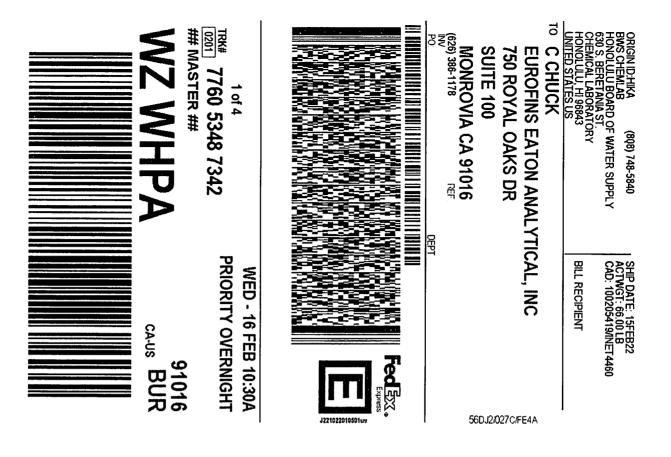
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#### FedEx Ship Manager - Print Your Label(s)

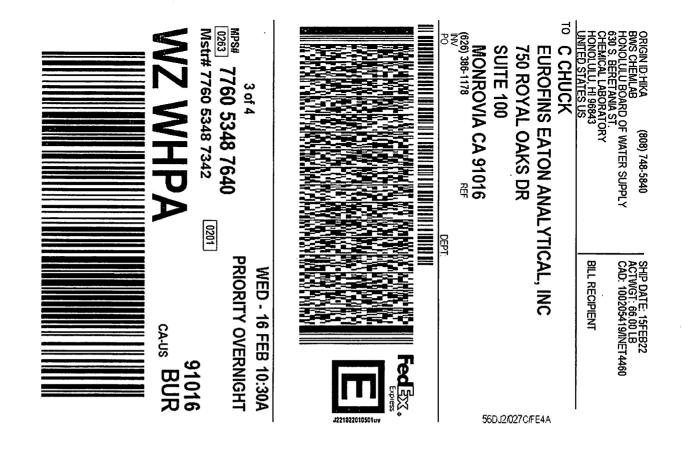


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្លឹះ eurofins	Kit Order for BOARD	) OF WATER SUPPLY, CITY AND COUNTY OF	JUNTY OF	Page 1 of 1
Eaton Anniyther	Debbie L Frank is your	ur Eurofins Eaton Analytical, LLC Service Manager	Manager	
750 Royal Oaks Drive, Suite 100 Morrovin California 01016 3620			Create	Created Date & Time: 1/10/2022 12:06:27AM
MONTOVIA, CAINOVIA 21010-2029 (626) 386-1100 FAX (866) 988-3757	Note: Sampler PI	Note: Sampler Please return this paper with your samples	amples	
Kit #: 310070		=	(+ənb	
STG: Bottle Orders Ice Type: G Pre Registered	Des	PO#JJOB#: C20525101 exp 05312023 Description: AIEA WELLS PUMPS 1&2 (260) - (	-	
Ship Sample Kits to Honolulu Board of Water Supply 630 South Beretania Street Chemistry Lab Honolulu, HI 96843	o /ater Supply i Street	Send Report to Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Billing Address Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Supply et m 308
Attn: Ron Fenstemacher Phone: 808-748-5841 Fax: 808-550-5572	cher 1	Attri: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Attr: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	
# of Sample Tests	Bottle Qty - 1	Bottle Qty - Type [ preservative information ]	Total	UN DOT #
1 TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8 C		6 - 1L amber glass [ 1 ml Thio 8% ]	Q	
1 8015 Gas_C	3 - 40ml amb	3 - 40ml amber glass vial [ 1 drop Thio (8%) ]	3	
1 @504MOD TB C, 8015 Gas_C TB	2 - 40ml amb	2 - 40ml amber glass vial [ 1 drop Thio (8%) + H20 ]		
Sum Tests: 3		Sul	Sum Bottles: 11	
Comments				
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)				
SAMPLER: Four 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Six 1 LITER AMBER GL	AND Six 1 LITER AMBER G	SLASS BOTTLES FOR TPH 8015 SERIES.		
SHIPPING: Travel Blanks - TBAMTBE, VOASDWA - Prepare TBs in the VOA LAB. Label Cooler on TOP and right below both Handles with Site description of contents ( use	e VOA LAB. • description of contents ( use	e extra Contaienr Labels)		
ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624	w detections in Field sample:	şį		
Page 11 of 49 p				

. ext

.

Prenared Bv

# of Coolers

Tracking #

Сiя

Date Shinned

Status

Code



**Eaton Analytical** 

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 987973 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 Ethanol, TPH Gas, Diesel, Motor Oil and Jet Fuels are submitted by Emax Laboratories



**Eaton Analytical** 

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 987973 Project: RED-HILL Group: Red-Hill Expanded List (Albuquerque+)

Er 63 Pt	onolulu Board of W win Kawata 30 South Beretania S ublic Service Bldg." I onolulu, HI 96843	Street			Samples Rec 02/16/2022 1	
Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 987973 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

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
AIEA W	ELLS PUMP	2 (331-004	-WL103) (202202	<u>161176)</u>		Sam	pled on 02/14	/2022 104	3
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
02/18/22	02/18/22 00:09			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
02/18/22	02/23/22 01:14			(SW 8015B)	TPH Diesel	ND	mg/L	0.024	1
02/18/22	02/23/22 01:14			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.047	1
		EPA 8015 -	Jet Fuel 5 C8-C	18					
02/21/22	02/23/22 01:14			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.047	1
		EPA 8015 -	Jet Fuel 8 C8-C	18					
	02/23/22 01:14			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.047	1
TRAVEL	BLANK::A	EA WELLS	PUMP 2 (331-00	4-WL103) (20	<u>2202161177)</u>	Sam	pled on 02/14	/2022 104	8
							-		
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
02/18/22	02/18/22 00:46			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



Samples Received on: 02/16/2022 1803

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LABORATORIES, INC.

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

Date: 03-08-2022 EMAX Batch No.: 22B179

Attn: Jackie Contreras

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

Subject: Laboratory Report Project: 987973

\_\_\_\_\_

Enclosed is the Laboratory report for samples received on 02/17/22. The data reported relate only to samples listed below :

Sample ID	Control # Col Date	Matrix	Analysis
202202161176	B179-01 02/14/22	WATER	TPH GASOLINE TPH
202202161177	B179-02 02/14/22	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Pang

Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of 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

			Submittal Form		228179 Date	Date: 2/17/2022
* <b>€</b>	🖏 eurofins	E 2101 Anarticati E 2101 Anarticati	*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers/ Report & Invoice must have the Folder# 987973 Job # 1000014	vith any other samples submitted un 014	der different Folder Numbers	78
			Report all quality control data according to Method. Include dates analyzed. Results must have Complete data & QC with Approval Signature.	<u>yzed.</u>	Date extracted (if extracted) and Method reference on the report.	the report.
	Snip Io: `EMAX Labora 3051 Fujita St.	Snip Io: 'EMAX Laboratories, Inc. 3051 Fujita St.	Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016	cting Administrator :t@eurofinset.com s, Suite 100, Monrovia, CA 91016	Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix	rt the on # and is + matrix.
	Torrance, CA	CA 90505	Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: Eurofins Eaton Analytical, LLC Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605	) 386-1122 alytical, LLC Lancaster, PA 17605	Samples from: HAWAII	VAII
	Phone: 310-618-8889	618-8889 Fax: 310-618-0818	2-3 day rush			
	Folder #: 987973	Report Due: 02/23/2022				
	Sample ID 202202161176	Client Sample ID for reference onl AIEA WELLS PUMP 2 (331-004-WL103)	ference onl Sample Date & 02/14/22 02/14/22	& Time Matrix Clip Code 22 1048 DW	DISMA	JLS
	Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:	
-	Method	Prep Method	Analysis Requested			
100	SW 8015B		(SUB)Gas Fraction Hydrocarbons			-
ωш	SW 8015B EPA 8015	EPA 3550B EPA 8015	TPH 8015 Diesel and Motor Oil Jet Fuel 5 C8-C18			
щ	EPA 8015		Jet Fuel 8 C8-C18			
2	Sample ID 202202161177	<b>Client Sample ID for re</b> TRAVEL BLANK::AIEA WEI	umP 2 (331-004-WL103)	Date & Time Matrix Clip Code 02/14/22 1048 DW	CISMd	JLS
	Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:	
<1	Method	Prep Method	Analysis Requested			
	SW 8015B	EPA 5030C	(SUB)Gas Fraction Hydrocarbons			
	Relinquished by:	XW Sample Control	Date 21 Al Time 124 4	NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS	ED OUTSIDE OF 0-6 CELSIUS	
Pag	Received by,	Just	Date 01/11/27_Time 12:14	An Acknowledgement of Receipt is requested to attn. Jackie Contreras	requested to attn: Jackie Cont	reras
e 16	Relinquished by.	f Sample Control	DateTime	TEMP: U 2.4. 1.4"		
	Received by:		Date Time	() 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
9 pages	REPORT ID	REPORT ID: 22B179750 Royal Oaks Drive, Suite 100, Monrovia, CA	Page 4 of 6 91016 Tel (626) 386-1100	Fax (866) 988-3757 www.EurofinsUS.com/Eaton	m/Eaton Page 2 of 35	of 35

# SAMPLE RECEIPT FORM 1

Reference: Addendum SM02.11.1 Form: SM02F1

Time of Delivery			A 1.1.111 / 00 1 1		ECN 12 1170			
Type of Delivery     Fedex   UPS     GSO   Others			Airbill / Tracki	ng wumber	ECN 226179 Recipient JOCELYNE SOLIS-RAMOS			
EMAX Courier Client Deliv		l			Date 02/17/22	Time 12:14		
	4				Date ODJIIJEL			
COC INSPECTION						-		
Client Name	Client PM/FC		Sampler Name	Sampling Date/Time	Sample ID	Ø Matrix Ø TAT		
1	1 Tel # / Fax #		Courier Signature	Analysis Required	□ Preservative (if any)			
Šafety Issues (if any)	□ High concentrations exp	ected	□ From Superfund Site	□ Rad screening required				
Note:								
				·····				
PACKAGING INSPECTIO			·					
Container Condition COVIRCTION	D Cooler		Box	Other	······			
	Custody Seal			Damaged				
Packaging HULTUR-0.9	D Bubble Pack	4	□ Styrofoam	$\Box \operatorname{Popcom}^{!}$	$\square Sufficient  \square Cooler 4 \frac{2.6}{2.1} \circ C$	□ □ Cooler 5°C		
Temperatures (Cool, ≤6 °C but not frozen)	$\mathcal{F}$ Cooler 1 $\mathcal{F}$ $\mathcal{F}$ $\mathcal{F}$	μco	bler $2 \frac{1}{1} \frac{1}{1} \frac{1}{4} C$	$\bigcirc \text{Cooler 3} \_ \_ \_ \_ \square $	$\square \text{ Cooler } 9\_\_\_ °C$			
Thermometer:	$ \frac{1}{p} Cooler 1 \frac{2 \cdot 4}{1.9} \circ C $ $ Cooler 6 \circ C $ $ A - S/N \frac{210191066}{2} a H $		$R_{-}S/N 210271396$	$C_{-}$ S/N 210271399	D - S/N	Cooler 10°C		
Comments:	t of range PM was informed	/ <i>'14</i> A IMM	FDIATELV		D - 5//4			
-	t of range. The was informe		EDIATELT.					
Note:			······					
				· · · · · · · · · · · · · · · · · · ·				
DISCREPANCIES	1							
LabSampleID		Code		bel ID / Information		Action		
	1-9 DIO 4-9 DZ JOI FUEL 8 not indicate				<u> </u>			
•	4-9	02		t inglicated on	· · · · · · · · · · · · · · · · · · ·			
·			label	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
					· · · · · · · · · · · · · · · · · · ·			
·								
					12/			
					1100			
D pH holding time requirement	for water samples is 15 mi	ns. W	ater samples for pH analy	sis are received beyond 15 r	ninutes from sampling time.	M3 2/18/22		
NOTES/OBSERVATIONS:						<b>1 1</b>		
		·		· · · · · · · · · · · · · · · · · · ·	······································			
				· · · · · · · · · · · · · · · · · · ·				
			•					
LEGEND:				·····	Continue to next pag	е.		
	gement	Code	Description-Sample Mana	gement	Code Description-Sample Manas			
Code Description- Sample Management D1 Analysis is not indicated in			Out of Holding Time	<i>.</i>	R1 Proceed as indicated in COC Label			
					R2 Refer to attached instruction			
D3 Sample ID mismatch COC v		D15	No trip blank in cooler		R3 Cancel the analysis			
D4 Sample ID is not indicated in	•			n	R4 Use vial with smallest bubble first			
D5 Container -[improper] [leaking] [broken]			Preservation mismatch COC	C vs label	R5 Log-in with latest sampling dat	e and time+1 min		
D6 Date/Time is not indicated in	n	D18	Insufficient chemical preser	vative	R6 Adjust pH as necessary	. 1A - A		
D7 Date/Time mismatch COC v	vs label	D19	Insufficient Sample		R7 Filter and preserved as necessar	1 Win F		
D8 Sample listed in COC is not			No filtration info for dissolv	-	R8 Thomas her	1 men i		
D9 Sample received is not listed	$\cap$		No sample for moisture determ	ination	R9			
(D10) No initial/date on correction		D22.		• 	R10			
D11 Container count mismatch C		D23			R11			
D12 Container size mismatch CC		D24		A 1	R12	A		
REVIEWS:	JOCELYNE Chil	)	SRF	Upilini	PM	115.		
Sample Labeling	02/17/22 11/1	N N	Date	112/122	Date	-Viehz		
Date	VYITIN 1111		Date		Date	- 10/-		

REPORT ID: 22B179

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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

987973

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

SDG#: 22B179

REPORT ID: 22B179

.

Client : EUROFINS EATON ANALYTICAL

Project: 987973

SDG : 22B179

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

A total of two(2) water samples were received on 02/17/22 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

ł

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. VG39B10B - 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. VG39B10L/VG39B10C 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 B177-01M/B177-01S. 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.

	TRAP
	AND
	PURGE
	ВΥ
LAB CHRONICLE	HYDROCARBONS
	PETROLEUM
	TOTAL

======= Client Project	client : EUROFINS EATON ANALYTICAL Project : 987973	ANAL YT I CAL							SJG NO. : 22B179 Instrument ID : GCT039	
						WATER				
1001		laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 		1		
MD1 710		VG39810B	~	NA	02/17/2216:15	02/17/2216:15	EB17005A	EB17003A	2ZVG39B10 Method Blank	
		VG39R10I		NA	02/17/2216:52	02/17/2216:52	EB17006A	EB17003A	22VG39B10 Lab Control Sample (LCS)	~
		VG39810C		NA	02/17/2217:28	02/17/2217:28	EB17007A	EB17003A	2ZVG39B10 LCS Duplicate	
202202161176	176	R179-01		NA	02/18/2200:09	02/18/2200:09	EB17018A	EB17014A	22VG39B10 Field Sample	
202202161177	2/11	B179-02	-	NA	02/18/2200 46	02/18/2200:46	EB17019A	EB17014A	22VG39B10 Field Sample	

FN - Filename % Moist - Percent Moisture

# SAMPLE RESULTS

,

REPORT ID: 22B179

Page 8 of 35 Page 22 of 49 pages

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

	=======================================			
Client : EUROFINS EATO	ANALYTICAL	Date	Collected:	02/14/22 10:48
Project : 987973			Received:	
Batch No. : 228179				02/18/22 00:09
Sample ID : 202202161176				02/18/22 00:09
Lab Samp ID: B179-01			on Factor:	
Lab File ID: EB17018A			Matrix:	
Ext Btch ID: 22VG39B10		2	6 Moisture:	NA
Calib. Ref.: EB17014A		Inst	rument ID:	39
		=============		
	RESULTS	RL	MDL	
PARAMETERS		(mg/L)	(mg/L)	
				-
GASOLINE	ND	0.020	0.010	
arooeine				
SURROGATE PARAMETERS	RESULT	SPK AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0331	0.0400	83	60-140
		=========		

Notes:

Parameter H-C Range Gasoline C6-C10 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount: 5mlPrepared by: SCervaAnalyzed by : SCerva

REPORT ID: 22B179

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

	=======================================		=============			
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	02/14/22 10:48		
Project : 987973		Date	Received:	02/17/22		
Batch No. : 22B179		Date Extracted: 02/18/22 00				
Sample ID : 202202161177		Date Analyzed: 02/18/22 00				
Lab Samp ID: B179-02		Dilution Factor: 1				
Lab File ID: EB17019A		Matrix: WATER				
Ext Btch ID: 22VG39B10		% Moisture: NA				
Calib. Ref.: EB17014A		Inst	rument ID:	39		
			=======================================			
	RESULTS	RL	MDL			
PARAMETERS	(mg/L)	(mg/L)	(mg/L)			
				-		
GASOLINE	ND	0.020	0.010			
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT		
Bromofluorobenzene	0.0322	0.0400	80	60-140		
	================	=========================				

Notes:

Parameter H-C Range Gasoline C6-C10 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount : 5mlFinal Volume : 5mlPrepared by : SCervaAnalyzed by : SCerva

REPORT ID: 22B179

.

# **QC SUMMARIES**

Page 11 of 35 Page 25 of 49 pages

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

	=======================================	==============	=======================================		
Client : EUROFINS EAT	ON ANALYTICAL	Date	Collected:	02/17/22 16:15	
Project : 987973		Date	e Received:	02/17/22	
Batch No. : 22B179				02/17/22 16:15	
Sample ID : MBLK1W		Date	e Analyzed:	02/17/22 16:15	
Lab Samp ID: VG39B10B		Diluti	ion Factor:	1	
Lab File ID: EB17005A			Matrix:	WATER	
Ext Btch ID: 22VG39B10	t Btch ID: 22VG39B10 % Moisture: NA				
Calib. Ref.: EB17003A		Inst	trument ID:	39	
=======================================	==============	===========			
			MDL		
PARAMETERS	(mg/L)	(mg/L)	(mg/L)		
				-	
GASOLINE	ND	0.020	0.010		
				00 I INIT	
SURROGATE PARAMETERS	RESULT	SPK_AM1	%RECOVERY	QC LIMII	
	0.0770	0 0/00	05	60-140	
Bromofluorobenzene	0.0339	0.0400	85	00-140	
=======================================	=======================================	***********			

Notes:

(2222) 1

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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 : 5mlFinal Volume : 5mlPrepared by : SCervaAnalyzed by : SCerva

REPORT ID: 22B179

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 987973
BATCH NO.	: 228179
METHOD	: 5030B/8015B
=======================================	

\_\_\_\_\_

Bromofluorobenzene

DILUTION FACTOR: SAMPLE ID : LAB SAMPLE ID : LAB FILE ID : DATE PREPARED : DATE ANALYZED :	MBLK1W VG39B10B EB17005A 02/17/22 16:15 02/17/22 16:15 22VG39B10		1 LCS1W VG39B10L EB17006A 02/17/22 1 02/17/22 1 22VG39B10 EB17003A			% MOISTURE 1 LCD1W VG39B10C EB17007A 02/17/22 1 02/17/22 1 22VG39B10 EB17003A	7:28			
ACCESSION:										
PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSReault (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.443	89	0.500	0.456	91	3	60-130	30
	=======================================	=========		========	=================		=======			========
SURROGATE PARAMET	ER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	

----- -----

101

0.0404

\_\_\_\_\_

0.0400

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

-------

0.0400

REPORT ID: 22B179

\_\_\_\_.

70-130

(ING/L) (///

103

0.0412

Bromofluoroben	izene	0.0400	0.0420	105	0.0400	0.0431	108		60-140	
SURROGATE PARA	METER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Gasoline	ND	0.500	0.495	99	0.500	0.499	100	1	50-130	30
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
ACCESSION:									•	
CALIBRATION RE			EB17003A			EB17003A				
DATE ANALYZED : 02/17/22 19:53 PREP BATCH : 22VG39B10			02/17/22 20:30 22VG39B10			02/17/22 21:06 22VG39B10				
DATE PREPARED : 02/17/22 19:53			02/17/22 20:30			02/17/22 21:06				
LAB SAMPLE ID : B177-U1 LAB FILE ID : EB17011A			EB177-01M EB17012A			EB17013A				
SAMPLE ID : 202202160931 LAB SAMPLE ID : B177-01		202202160931MS B177-01M			202202160931MSD B177-01S					
DILUTION FACTO			1			1				
MATRIX	: WATER					% MOISTURE	- NA			
							=======	=======		
BATCH NO. METHOD	: 22B177 : 5030B/8015B									
PROJECT	: 987883									

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

.

LABORATORY REPORT FOR

# EUROFINS EATON ANALYTICAL

987973

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

SDG#: 22B179

REPORT ID: 22B179

Client : EUROFINS EATON ANALYTICAL

Project: 987973

SDG : 22B179

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

One(1) water sample was received on 02/17/22 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. DSB027WB - 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 DSB027WL. Refer to LCS summary form for details.

Matrix QC Sample Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22B177-01M/22B177-01S. 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.

REPORT ID: 22B179

Client : EUROFINS EATON ANALYTICAL

Project: 987973

SDG : 22B179

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

One(1) water sample was received on 02/17/22 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. DSB027WB - 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 J5B027WL. Refer to LCS summary form for details.

Matrix QC Sample Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22B177-01M/22B177-01S. 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: 987973

SDG : 22B179

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/17/22 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. DSB027WB - 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 J8B027WL. Refer to LCS summary form for details.

Matrix QC Sample Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22B177-01M/22B177-01S. 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.

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	<b>EXTRACTION</b>
	SΒΥ
AB CHRONICLE	HYDROCARBONS
Γ	PETROLEUM
	TOTAL

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	C				***				spg No. : 228179
Project	: 987973								nt ID
					#				
					WAT	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 Notes
			         	1 1 1			8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		***************************************
MRI K1W		DSB027WB	<del>ر</del>	NA	02/22/2221:14	02/21/2210:30	LB22012A	LB22006A	22DSB027W Method Blank
1 CS14		DSB027WL	-	NA	02/22/2221:32	02/21/2210:30	LB22013A	LB22006A	22DSB027W Lab Control Sample (LCS)
202202161176	76	B179-01	1	NA	02/23/2201:14	02/21/2210:30	LB22025A	LB22006A	22DSB027W Field Sample

FN - Filename % Moist - Percent Moisture

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	<b>EXTRACTION</b>
Щ	B۲
LAB CHRONICLE	HYDROCARBONS
	PETROLEUM

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Cl ient Project	: EUROFINS EATON ANALYTICAL : 987973	N ANALYTICAL							SDG NO. Instrumen	SDG NO. : 22B179 Instrument ID : D5
				                            		WATER				
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		
MBLK1M		DSB027WB	-	NA	02/22/2221:14	02/21/2210:30	LB22012A	LB22007A	22DSB027W	22DSB027W Method Blank
1 CS1W		J5B027WL	-	NA	02/22/2221:51	02/21/2210:30	LB22014A	LB22007A	22DSB027W	22DSB027W Lab Control Sample (LCS)
202202161176	176	B179-01	-	NA	02/23/2201:14	02/21/2210:30	LB22025A	LB22007A	22DSB027W	22DSB027W Field Sample

FN - Filename % Moist - Percent Moisture

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LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

									C120170
Client Project	: EUROFINS EAIUN ANALYIICAL : 987973	ANALYIICAL							t ID
		****							
					WATER	ER			
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	I Prep.
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes
				1 1 1 1	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		8 8 8 8 8		
MBLK1W		DSB027WB	-	NA	02/22/2221:14	02/21/2210:30	LB22012A	LB22008A	22DSB027W Method Blank
LCS1W		J8B027WL	-	NA	02/22/2222:09	02/21/2210:30	LB22015A	LB22008A	22DSB027W Lab Control Sample (LCS)
202202161176	76	B179-01	٢	NA	02/23/2201:14	02/21/2210:30	LB22025A	LB22008A	22DSB027W Field Sample

FN - Filename % Moist - Percent Moisture .

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# SAMPLE RESULTS

Page 22 of 35 Page 36 of 49 pages

	=================		=======================================	
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	02/14/22 10:48
Project : 987973		Date	e Received:	02/17/22
Batch No. : 22B179		Date	Extracted:	02/21/22 10:30
Sample ID : 202202161176		Date	Analyzed:	02/23/22 01:14
Lab Samp ID: 22B179-01		Diluti	ion Factor:	1
Lab File ID: LB22025A			Matrix:	WATER
Ext Btch ID: 22DSB027W		9	6 Moisture:	NA
Calib. Ref.: LB22006A		Inst	rument ID:	D5
	=============			
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
Diesel	ND	0.024	0.012	
Motor Oil	ND	0.047	0.024	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
the for out of the for the for the top the for the top the top the top the for the top the for the				* ******
Bromobenzene	0.437	0.470	93	60-130
Hexacosane	0.113	0.118	97	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 : 1060mlFinal Volume : 5mlPrepared by : POretoAnalyzed by : SDeeso

				============	=====
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	02/14/22	10:48
Project : 987973		Date	e Received:	02/17/22	
Batch No. : 22B179		Date	Extracted:	02/21/22	10:30
Sample ID : 202202161176		Date	e Analyzed:	02/23/22	01:14
Lab Samp ID: 22B179-01		Diluti	on Factor:	1	
Lab File ID: LB22025A			Matrix:	WATER	
Ext Btch ID: 22DSB027W			6 Moisture:		
Calib. Ref.: LB22007A		Inst	rument ID:	D5	
================================	=============				=====
	RESULTS				
PARAMETERS	(mg/L)	(mg/L)	(mg/L)		
				-	
JP5	ND	0.047	0.024		
	RESULT	CDK AMT			41T
SURROGATE PARAMETERS	RESULI	3FK_AMI	MECOVERT		
Bromobenzene	0.437	0.470	93	60-13	30
Hexacosane	0.113	0.118	97		

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 : 1060ml Final Volume : 5ml Prepared by : POreto Analyzed by : SDeeso

			==================	
Client : EUROFINS EATO	ANALYTICAL	Date	Collected:	02/14/22 10:48
Project : 987973			e Received:	
Batch No. : 22B179		Date	Extracted:	02/21/22 10:30
Sample ID : 202202161176		Date	e Analyzed:	02/23/22 01:14
Lab Samp ID: 22B179-01			ion Factor:	
Lab File ID: LB22025A	Matrix:	WATER		
Ext Btch ID: 22DSB027W		2	« Moisture:	NA
Calib. Ref.: LB22008A		Inst	trument ID:	D5
		===========	=======================================	
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
***				-
JP8	ND	0.047	0.024	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.437	0.470	. +	60-130
Hexacosane	0.113	0.118	97	60-130
		================		

Notes:

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> 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 : 1060ml Final Volume : 5ml Prepared by : POreto Analyzed by : SDeeso

# QC SUMMARIES

		=================		
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	02/21/22 10:30
Project : 987973		Date	e Received:	02/21/22
Batch No. : 22B179		Date	Extracted:	02/21/22 10:30
Sample ID : MBLK1W		Date	e Analyzed:	02/22/22 21:14
Lab Samp ID: DSB027WB		Diluti	ion Factor:	1
Lab File ID: LB22012A			Matrix:	WATER
Ext Btch ID: 22DSB027W		2	6 Moisture:	NA
Calib. Ref.: LB22006A		Inst	rument ID:	D5
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
			*******	
Bromobenzene	0.384	0,500	77	60-130
Hexacosane	0.110	0.125	88	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 : 1000mlFinal Volume : 5mlPrepared by : POretoAnalyzed by : SDeeso

REPORT ID: 22B179

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# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT         : EUROFINS           PROJECT         : 987973           BATCH NO.         : 228179           METHOD         : 3520C/80	)15B	LYTICAL		;	
MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : MBLK1W LAB SAMPLE ID : DSB027WE LAB FILE ID : LB22012/ DATE PREPARED : 02/21/22 DATE ANALYZED : 02/22/22 PREP BATCH : 22DSB023 CALIBRATION REF: LB22006/	4 2 10:30 2 21:14 7W		10:30 21:32		
ACCESSION:					
PARAMETERS Diesel	(mg/L)	(mg/L)	LCSResult (mg/L) 2.72	(%)	(%)
		=================			========
SURROGATE PARAMETERS		SpikeAmt (mg/L)		LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane			0.567 0.130	113	
=======================================					

MB: Method Blank sample LCS: Lab Control Sample

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 987883
BATCH NO.	: 22B177
METHOD	: 3520C/8015B

MATRIX	:	WATER		% MOISTURE:NA
DILUTION FACTOR	₹:	1	1	1
SAMPLE ID	:	202202160931	202202160931MS	202202160931MSD
LAB SAMPLE ID	:	22B177-01	22B177-01M	22B177-01S
LAB FILE ID	:	LB22017A	LB22018A	LB22019A
DATE PREPARED	:	02/21/22 10:30	02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	:	02/22/22 22:46	02/22/22 23:05	02/22/22 23:23
PREP BATCH	:	22DSB027W	22DSB027W	22DSB027W
CALIBRATION REF		LB22006A	LB22006A	LB22006A

# ACCESSION:

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PARAMETERS	PSResult (mg/L)	SpikcAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.89	116	2.55	3.16	124	9	50-130	30
							=========		===========	
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.500 0.125	0.478 0.122	96 98	0.510 0.127	0.512 0.132	100 104		60-130 60-130	

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

Client : EUROFINS EAT	ON ANALYTICAL	Date	Collected:	02/21/22 10:30
Project : 987973		Date	e Received:	02/21/22
Batch No. : 22B179		Date	Extracted:	02/21/22 10:30
Sample ID : MBLK1W		Date	Analyzed:	02/22/22 21:14
Lab Samp ID: DSB027WB		Diluti	ion Factor:	1
Lab File ID: LB22012A			Matrix:	WATER
Ext Btch ID: 22DSB027W		2	6 Moisture:	NA
Calib. Ref.: LB22007A		Inst	rument ID:	D5
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPKAMT	%RECOVERY	QC LIMIT
Bromobenzene			77	
Hexacosane	0.110	0.125	88	60-130

Notes:

RL : Reporting Limit Parameter H-C Range JP5 C8-C18 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures. Sample Amount : 1000ml Final Volume : 5ml Prepared by : POreto Analyzed by : SDeeso

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROI PROJECT : 98797 BATCH NO. : 22817 METHOD : 35200	73 79 2/8015B	LYTICAL			
MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : MBLK' LAB SAMPLE ID : DSB00 LAB FILE ID : LB220 DATE PREPARED : 02/22 PREP BATCH : 22DSR CALIBRATION REF: LB220	IW 27WB 012A 1/22 10:30 2/22 21:14 3027W		10:30 21:51		
ACCESSION:					
PARAMETERS			LCSResult (mg/L)		
JP5	ND	2.50	2.25	90	30-160
=======================================					
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane			0.450 0.119	90 95	60-130 60-130
			=======================================	=================================	==========

MB: Method Blank sample LCS: Lab Control Sample

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Bromobenzene Hexacosane		0.505	0.495	98 96	0.505	0.501	99 95		60-130 60-130	
SURROGATE PARAME	TERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)			QCLimit (%)	
JP5	ND	2.53	2.69	107	2.53	2.59	103	4	30-160	30
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSRecult (mg/L)	MSRəc (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPF (%)
ACCESSION:										
DATE PREPARED : DATE ANALYZED :	LB22017A 02/21/22 10:30 02/22/22 22:46 22DSB027W LB22007A	LB22020A 02/21/22 10:30 02/22/22 23:42 22DSB027W LB22007A			LB22021A 02/21/22 10:30 02/23/22 00:00 22DSB027W LB22007A					
DILUTION FACTOR:	202202160931		202160931MS 177-01M			1 2022 22B1	01 STURE:NA 02160931M 77-01S	SD		
BATCH NO. : METHOD :	987883 228177 3520C/8015B						==========	======	============	

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

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			================			
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	02/21/22 10:30		
Project : 987973		Date	e Received:	02/21/22		
Batch No. : 22B179	•			02/21/22 10:30		
Sample ID : MBLK1W		Date	Analyzed:	02/22/22 21:14		
Lab Samp ID: DSB027WB		Diluti	on Factor:	1		
Lab File ID: LB22012A			Matrix:	WATER		
Ext Btch ID: 22DSB027W		2	6 Moisture:	NA		
Calib. Ref.: LB22008A	b. Ref.: LB22008A Instrument ID:					
			=================	=================		
	RESULTS	RL	MDL			
PARAMETERS	(mg/L)	(mg/L)	(mg/l)			
				-		
JP8	ND	0.050	0.025			
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT		
Bromobenzene		0.500				
Hexacosane	0.110	0.125	88	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 : POreto Analyzed by : SDeeso

CLIENT         : EUROFINS           PROJECT         : 987973           BATCH NO.         : 228179           METHOD         : 3520C/80	)15в						
MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : MBLK1W LAB SAMPLE ID : DSB027WE LAB FILE ID : LB22012A DATE PREPARED : 02/21/22 DATE ANALYZED : 02/22/22 PREP BATCH : 22DSB027 CALIBRATION REF: LB22008A	2 10:30 2 21:14 W		10:30 22:09				
ACCESSION:							
PARAMETERS	(mg/L)	(mg/L)	LCSResult (mg/L)	(%)	(%)		
JP8	ND	2.50	2.21	88	30-160		
SURROGATE PARAMETERS			LCSResult (mg/L)	(%)	QCLimit (%)		
Bromobenzene Hexacosane			0.528 0.122	106			
=======================================				===========	*********		

MB: Method Blank sample LCS: Lab Control Sample

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202202160931MS 22B177-01M LB22022A 02/21/22 10:30

02/23/22 00:19 22DSB027W

LB22008A

CLIENT PROJECT BATCH NO. METHOD	: EUROFINS EATON : 987883 : 228177 : 3520C/8015B	ANALYTICAL	
MATRIX	: WATER	1	% MOISTURE:NA
DILUTION FACTO	DR: 1		1

 SAMPLE ID
 :
 202202160931

 LAB SAMPLE ID
 :
 22B177-01

 LAB FILE ID
 :
 LB22017A

 DATE PREPARED
 :
 02/21/22
 10:30

DATE ANALYZED : 02/22/22 22:46

PREP BATCH : 22DSB027W CALIBRATION REF: LB22008A

% MOISTURE:NA 1
202202160931MSD
22B177-01S
LB22023A
02/21/22 10:30
02/23/22 00:38
22DSB027W
LB22008A

#### ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.62	2.58	98	2.62	2.26	86	13	30-160	30
			===========		===========		=========	=======	===========	
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.525 0.131	0.563 0.128	107 98	0.525 0.131	0.491 0.123	94 94		60-130 60-130	

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