

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
03/18/2022

Lebel Cank
EUROPINS ATON
ANALYTICAL, LLC

DEB: Debbie L Frank

Project Manager



Report: 986280 Project: RED-HILL

Group: Red-Hill Expanded List (Albuquerque+)

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



STATE CERTIFICATION LIST

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

^{*} NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

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

https://www.eurofinsus.com/Eaton

Test(s)	Method(s)	Potable	Waste
	` '	Water *	Water
Enterococci Escherichia coli	Enterolert SM 9221 B.1	Х	Х
(Enumeration)	SM 9221 F	X	
Fecal Coliform (P/A and	SM 9221 C (MTF/EC), SM 9221	Х	Х
Enumeration)	E (MTF/EC)	^	^
Fecal Streptococci and Enterococci	SM 9230 B	x	х
Heterotrophic Bacteria	SM 9215 B	Х	
Legionella	Legiolert®	Х	
Pseudomonas aeruginosa	Idexx	x	
Total Coliform (P/A and	Pseudalert SM 9221A, SM		
Enumeration)	9221B, SM 9221 C	X	Х
Total Coliform, Total			
Coliform with Chlorine Present	SM 9221 B	Х	Х
Total Coliform/E. coli (P/A and			
Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	х	
Total Microcystins and	EDA 546		
Nodularins	EPA 546	Х	
Yeast and Mold	SM 9610	X	
1,2,3-Trichloropropane	CA SRL 524M-	Х	
(TCP) at 5 PPT 1,4-Dioxane	TCP EPA 522		
,	Modified EPA	Х	
2,3,7,8-TCDD	1613 B	X	
Acrylamide	⁺ LCMS 2440)	Х	
Algal Toxins/Microcystin Alkalinity	+ LCMS 3570	X	
Alkalinity	SM 2320B EPA 350.1.	X	Х
Ammonia	SM 4500-NH3		Х
	Н		
Asbestos Bicarbonate Alkalinity as	EPA 100.2 SM 2330 B	Х	Х
HCO3	3W 2330 B	x	Х
BOD/CBOD	SM 5210 B		Х
Bromate	+LCMS- 2447	Х	
Carbonate as CO3 Carbonyls	SM 2330 B EPA 556	X X	X
	EPA 410.4,	^	
Chemical Oxygen Demand	SM 5220D		Х
Chlorinated Acids	EPA 515.4	Х	
	Palin Test Chlordio X Plus,		
Chlorine Dioxide	SM 4500-CLO2	X	
	D		
Chlorine, Free, Combined, Total Residual,	SM 4500-CI G	X	
Chloramines		^	
Color	SM2120B	Х	
Conductivity	EPA 120.1,	x	х
Corrosivity (Langelier	SM 2510B		
Index), Carbonate as CO3,	SM 2330 B	v	
Hydroxide as OH	3W 2330 B	X	
Calculated	SM 4500-CN		
Cyanide (Amenable)	G SW 4500-CN	Х	х
Cyanide (Free)	SM 4500CN F	Х	Х
Cyanide (Total)	EPA 335.4	Х	Х
Cyanogen Chloride (Screen)	⁺ 335 Mod (WC-24467)	Х	
Diquat and Paraquat	EPA 549.2	Х	
DBP and HAA	SM 6251 B	Х	
Dissolved Organic Carbon	SM 5310 C	Х	
Dissolved Oxygen EDB/DCBP/TCP	SM 4500-O G EPA 504.1	Х	Х
EDB/DCBP/TCP			
Disinfection Byproducts	EPA 551.1	Х	
EDTA and NTA	+ WC-2454	Х	
Endothall	EPA 548.1, +(LCMS-2445)	Х	
Fluoride	SM 4500F C	Х	Х
Glyphosate	EPA 547	Х	
Glyphosate and AMPA	+LCMS-3618	X	
Gross Alpha and Gross Beta	EPA 900.0	X	Х

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

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

⁽⁺⁾ In-House Method



Acknowledgement of Samples Received

Addr: Honolulu Board of Water Supply

630 South Beretania Street Public Service Bldg." Room 308

Honolulu, HI 96843

Attn: Erwin Kawata Phone: 808-748-5091 Client ID: HONOLULU Folder #: 986280 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 **February 09, 2022** at **1505**. 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
202202090890	MOANALUA WELLS (331-223-TF	P202)		02/07/2022 1038
	(SUB)Gas Fraction Hydrocarbons TPH 8015 Jef Fuel 8	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
202202090891	TRAVEL BLANK::MOANALUA W	ELLS (331-223-TP202)		02/07/2022 1038
	(SUB)Gas Fraction Hydrocarbons			

Test Description

Reported: 03/18/2022

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CHAIN OF CUSTODY RECORD

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Eaton Analytical

(check for yes) O = Other - Please Identify list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample) 200 Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA.. (check for yes) COMMENTS SAMPLER 1505 OF X (check for yes), OR NON-COMPLIANCE SAMPLES X PAGE SAMPLES REC'D DAY OF COLLECTION? SAMPLES CHECKED AGAINST COC BY: REGULATION INVOLVED: SAMPLES LOGGED IN BY No Ice SL = Sludge SEE ATTACHED BOTTLE ORDER FOR ANALYSES METHOD OF SHIPMENT: Pick-Up / Walk-In / FegEx// UPS / DHL / Area Fast / Top Line / Other: SO = Soil Wet Ice BW = Bottled Water SW = Storm Water (check for yes) **BWS HONOLULU** BWS HONOLULU COMPANY/TITLE COMPLIANCE SAMPLES - Requires state forms Thawed °C (Compliance: 4 ± 2 °C) °C (Compliance: 4 ± 2 °C) WW = Waste Water SEAW = Sea Water Partially-Frozen Red Hill × /Suc la АТАО ОЈЭІЧ CFW = Chlor(am)inated Finished Water PRINT NAME EUROFINS EATON ANALYTICAL USE ONLY. E Juagdan E Juagdan CONDITION OF BLUE ICE: Frozen 1 day ATAO OJEIT RED HILL-Weekly Colton / No. California / Arizona SAMPLE TEMP RECEIVED AT: CFW FW = Other Finished Water 1 wk ___ 3 day ___ 2 day · XIRTAM 102022 LOGIN COMMENTS: HI0000331-223 SAMPLE GROUP: CLIENT LAB ID PROJECT CODE: Monrovia STD HONOLULU BOARD OF WATER SUPPLY RGW = Raw Ground Water MATRIX TYPES: RSW = Raw Surface Water COC ID: SAMPLE ID 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 800 566 LABS (800 566 5227) 038 Moanalua Wells TO BE COMPLETED BY SAMPLER RUSH COMPANY/AGENCY NAME: Phone: 626 386 1100 Fax: 626 386 1101 EEA CLIENT CODE: TAT requested: RELINQUISHED BY RELINQUISHED BY **BMIT** RECEIVED BY RECEIVED BY SAMPLED BY SAMPLE 217122 SAMPLE STAG

Created Date & Time: 1/3/2022 12:06:54AM

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Date Shinned

Status

of Coolers

Prepared By

Kit Order for BOARD OF WATER SUPPLY, CITY AND COUNTY OF

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

Eaton Analytical

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Note: Sampler Please return this paper with your samples

(626) 386-1100 FAX (866) 988-3757

Monrovia, California 91016-3629 750 Royal Oaks Drive, Suite 100

Client ID:

Project Code:

Red-Hill Expanded List (Albuquerque+)

Group Name: PO#/JOB#: Description:

HONOLULU RED-HILL Bottle Orders

MOANALUA WELLS - ended 0127 C20525101 exp 05312023

Created By: - [AutoGenerated] Deliver By: 02/02/2022

STG: Bottle Orders

Pre Registered

Ice Type: G

Ship Sample Kits to

Honolulu Board of Water Supply 630 South Beretania Street

Attn: Ron Fenstemacher Phone: 808-748-5841

Fax: 808-550-5572

Honolulu, HI 96843

Chemistry Lab

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

Honolulu Board of Water Supply Attr: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018

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

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

# of Sample Tests	Bottle Qtv - Type [preservative information]	Total	UN DOT #
1 TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH	9 - 1L amber glass [1 ml Thio 8%]	ത	
8015 Jet Fuel 8_C			

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

Sum Bottles: 17 3 - 40ml amber glass vial [25mg AA+ H20+10 drop 1:1 HCL] 2 - 40ml amber glass vial [1 drop Thio (8%) + H20] **@VOASDWA C plus plus TICs TBC** @504MOD TB C, 8015 Gas C TB

UN1789

3

Sum Tests: 4

8015 Gas C

3rd MS/MSD

Comments

SITE ID:

MOANALUA WELLS (331-223 -TP202)

Eight 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Nine 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES. THIS IS A MS/MSD SITE for 600 and 8000 series testing SAMPLER

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 extra Contaienr Labels)

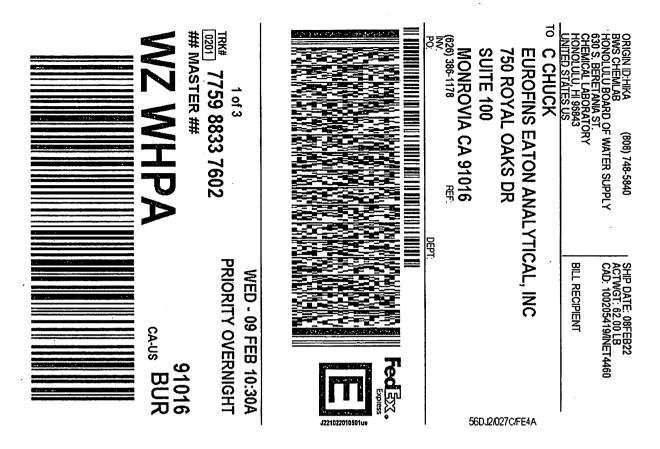
ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624

Code Page 6 of 85 pages

CORD	whether to proceed with analysis or not.		Thawed N/A	1		on, within 8 hours)		C) (CorrFactor 'C) (Final = 'C) (C) (CorrFactor 'C) (Final = 'C)		Expiration DateResults:		selow): al bottles) 40 mi vials, international clients: Samp ID Bottle # None/<6 >6m		- Francisco	DATE	-,9-22 1505	DATE TIME	
INTERNAL CHAIN OF CUSTODY 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	°C) (Final = 4,6 °C)	SE: Frozen K Partially Frozen	t / Top Line / Other:	ocollection)	I ice the same day as sample collecti	ollection)	.c) 2 = (Observation=	ved after 24 hrs of sample collection)	pH strip type: 0 - 14 or E	Date: Results	Samples with Headspace (see below): Radon Internal COFC for additional bottli CMS, 556, 536, Anatoxin, LCMS methods using 40 ml vi Samp ID Bottle# None/6 >6mm Test			COMPANYTITLE	Eurofins Eaton Analytical	COMPANYITILE	Eurofins Eaton Analytical
INTERNAL CHAI	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, SAMPLES REC'D DAY OF G	on= 418 °C) (Corr.Factor -012	No Ice CONDITION OF ICE:	/ Walk-In /FedEx / UPS / DHL / Area Fast / Top Line / Other:	AP) (if received after 24 hrs of sample	< 10°C, not frozen (can be ≥10°C if received on Ice the same day as sample collection, within 8 hours)	(if received after 2 hours of sample or		D): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	Lot Number: pH s	safe, Lot No.: Expiration Date:	A and Radon No Samples with Headspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi vials, international clients: Samp ID Bottle # None/<6	uuu.	vace (i.e. potential sampling errors):	PRINT NAME	Chun Brech	PRINT NAME	
eurofins	EEA Folder Number:	IR Gun ID = 401 (Observation= 418	TYPE OF ICE: Real Synthetic X N	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	2) Microbiology, Distribution: < 10°C, n	3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants	4 Dioxin (1613 or 2,3,7,8 TCDD): must b	5) pH Check. Manufacturer:	6) Chlorine check. Manufacturer: Sansafe. Lot No.:	VOA and Radon No Sampl 7) Headspace: Headspace Docu Exempt from headspace concerns: Methods		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	SIGNATURE	RECEIVED BY:	SIGNATURE	SAMPLES CHECKED AGAINST GOG BY:

CUSTODY 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	(5° 8°C)	Partially Frozen Thawed N/A	, / Other:		ne day as sample collection, within 8 hours)		.c) 2 * (Observation* 'C) (Corr.Factor 'C) (Fhail * 'C)	(C) (Final = 'C) (Corr,Factor 'C) (Final = 'C)	hrs of sample collection)	. 14 or Expiration Date Results:	Samples with Headspace (see below):	rnal COFC for additional bottles	Anatoxin, LCMs methods using 40 mil vias, international control of the Samp ID Bottle Mona/6 >6mm Test ottle mm Test			COMPANYITILE DATE TIME	Eurofins Eaton Analytical 2-9-22 [S10]	COMPANYITILE DATE TIME	Eurofins Eaton Analytical	
September 1971 Patent Analytical INTERNAL CHAIN OF COSTODY RECORD		IR Gun ID = A(O (Observation= 6.0 °C) (Corr.Factor 0.2 °C) (Final = 5.8	1	METHOD OF SHIPMENT: Pick-Up / Walk-In /FedEx / UPS / DHL / Area Fast / Top Line / Other.	Compliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the femographic of each marked and record and hamagature of the femographic of each marked and record and hamagature of the	g = (Observation or	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	don No Camalor with Donderson.	Headspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)	Exempt from headspace concerns: Methods 515.4, HAA(6251,562), 505, SPME, @CH, 532LCMS, 586, 536, Anatoxin, LCMs methods using 40 mi vials, international concerns: Methods 515.4, HAA(6251,562), 505, SPME, @CH, 532LCMS, 586, 536, Anatoxin, LCMs methods using 40 mi vials, international concerns: Methods 515.4, HAA(6251,562), 505, SPME, @CH, 532LCMS, 586, 536, SBM, 536, Anatoxin, LCMs methods 1516, Mondale		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	PRINT NAME	och Chu Boch	SIGNATURE	SAMPLES CHECKED AGAINST COC BY:	

	n analysis or not.		N/A			(2)		nal a	inal = *C)		Results:		ational clients: None/<6 Semm Test	E		TIME		1001	TIME	
KECOKD	etermine whether to proceed with 5 / NO	×	zen Thawed			ollection, within 8 hour		*C) (Corr.Factor *C) (Final *	*C) (Corr.Factor *C) (Final =	ction)	Expiration Date		(see below): Itional bottles susing 40 ml vials, Interna	lest oamp or		DATE		77.4.7	DATE	
OF CUSTODY	SAMPLE TEMP RECEIVED: Note: if samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No	c) (Final = $\frac{5.9}{1.5}$ °C)	CONDITION OF ICE: Frozen X Partially Frozen	/ Top Line / Other:	ollection)	ce the same day as sample co	action)	·C) (Final w	*C) (Final = *C) 4 = (Observation*	d after 24 hrs of sample colle	pH strip type: 0 - 14 or	ate: Results	Samples with Headspace (see below): adon Internal COFC for additional bottle is, 556, 536, Anatoxin, LCMS methods using 40 ml vii	Samp ID Bottle # mm >5mm		# ITHINABALOO		Eurofins Eaton Analytical	COMPANY/TITLE	Eurofins Eaton Analytical
INTERNAL CHAIN OF CUSIODY RECORD	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature rangs, I	= 6. 1 °C) (Corr.Factor 0.2 °C) (Final = 5.9		FedEx / UPS / DHL / Area Fast / Top Line / Other.) (if received after 24 hrs of sample c	frozen (can be ≥10°C if received on l	(if received after 2 hours of sample collection)	1 = (Observation* C) (Corr.Factor	3 = (Observation= C) (Corr.Factor C)	between 0-4 °C, not frozen (if receive	Lot Number:pH stri	fe. Lot No.: Expiration Date:	A and Radon No Samples with Headspace: Adspace: Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 515.4, HAA(6251,525, 505, 5946, 5321,000,000,000,000,000,000,000,000,000,0	D Bottle# mm Test		ce (i.e. potential sampling errors):	PRINT NAME	m Scal	PRINT NAME	
eurorins	EEA Folder Number: 976780	IR Gun ID = $\frac{40 \text{ l}}{6000}$ (Observation= $\frac{60000}{1000}$	TYPE OF ICE: Real Synthetic No Ice	METHOD OF SHIPMENT: Pick-Up / Walk-In	Compliance Acceptance Criteria: 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	3) Microbiology, Surface Water: < 10°C (i	If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the	quadrants	4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	5) pH Check. Manufacturer:	6) Chlorine check. Manufacturer: Sansafe. Lot No.:	VOA and Radon No Sample Theadspace: Headspace Docum	Samp ID Bottle # Nonex b > 6mm Test Samp		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	SIGNATURE SIGNATURE	Charles IC	SIGNATURE	SAMPLES CHECKED AGAINST COC BY:



After printing this label:

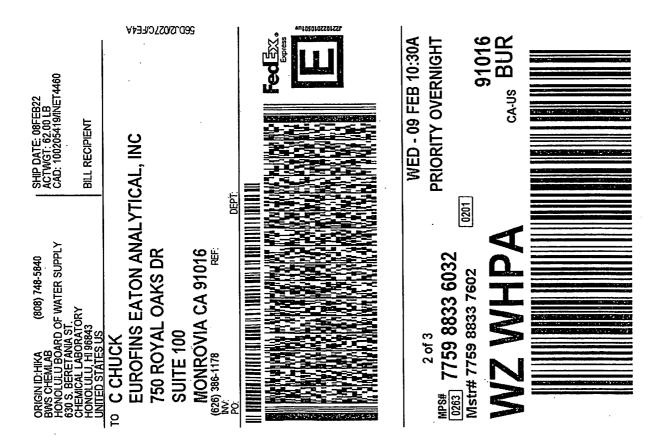
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^{3.} Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

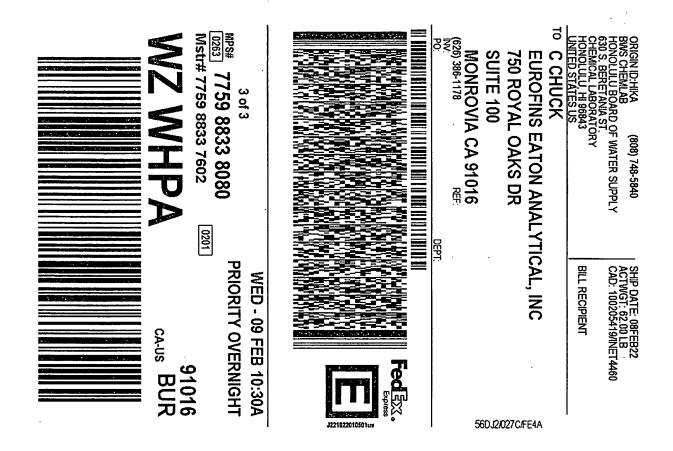


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1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 986280 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

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

Folder Comments

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



Laboratory Hits

Report: 986280 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: 02/09/2022 1505

Analyzed Analyte Sample ID Result I	HI Limit	Units	MRL
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Tel: (626) 386-1100 Fax: (866) 988-3757

1 800 566 LABS (1 800 566 5227)

Report: 986280 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: 02/09/2022 1505

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
MOANA	LUA WELLS	(331-223-T	P202) (20220209	00890)		Sam	pled on 02/07	/2022 103	8
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
02/10/22	02/10/22 22:03			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
02/10/22	02/14/22 17:14			(SW 8015B)	TPH Diesel	ND	mg/L	0.025	1
02/10/22	02/14/22 17:14			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.049	1
		EPA 8015 -	Jet Fuel 5 C8-C	:18					
02/10/22	02/14/22 17:14			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.049	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
	02/14/22 17:14			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.049	1
TRAVE	L BLANK::M	DANALUA V	<u> VELLS (331-223</u>	-TP202) (2022	202090891)	Sam	pled on 02/07	/2022 103	8
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
02/10/22	02/10/22 21:27			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



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

Date: 02-16-2022

EMAX Batch No.: 22B109

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 986280

Enclosed is the Laboratory report for samples received on 02/10/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202202090890	B109-01 02/07/22	WATER	ТРН
202202090891	B109-02 02/07/22	WATER	TPH GASOLINE
202202090890MS	B109-01M 02/07/22	WATER	TPH
202222222222	P400 040 02/07/22	LIATED	TPH GASOLINE
202202090890MSD	B109-01S 02/07/22	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

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

22B 109

Date: 2/10/2022

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 986280 Job # 1000014 Report all quality control data according to Method, Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.

Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

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

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

Samples from: HAWAII

2-3 day rush

RED HIII

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

986280

02/14/2022

PWSID Static ID Clip Code Sample Date & Time Matrix 02/07/22 1038 DW Sample Point ID: Facility ID: Client Sample ID for reference on! MOANALUA WELLS (331-223-TP202) Sample Event: $injlie{}$ 202202090890 Sample type: Sample ID

SI

TPH 8015 Diesel and Motor Oil **Analysis Requested** Jet Fuel 8 C8-C18 Jet Fuel 5 C8-C18 **Prep Method EPA 3550B EPA** 8015 SW 8015B **EPA 8015 EPA** 8015 Method

Client Sample ID for reference on! TRAVEL BLANK::MOANALUA WELLS (331-223-TP202) (E) 202202090891 Sample ID

Facility ID: Sample Event:

 $\mathbb{S}\mathbb{T}$

PWSID

Clip Code

Sample Date & Time Matrix

02/07/22 1038 DW

Sample Point ID:

Static ID:

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

Sample type:

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is reguested to attn. Jackie Contreras

Temp, 3.8/3.8, 5.2/4.7,1.8/1.3

Page 4 of 5

Date 2 (16/12 Time (2: //

Date Date

Sample Control

Relinquished by:

astr.

Received by:

Page 17 of 85 pages

Time Time

Date

Sample Control

Relinquished by:

Received by:

Page 2 of 35 REPORT ID: 22B109*50 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Reference: Addendum SM02.11.1

Form: SM02F1

Type of De	elivery	Airbill / Track	ing Number	ECN 22B109	
□ Fedex □ UPS □ GSO	☐ Others			Recipient Maria P	2ivera
☐ EMAX Courier Client Deli	very			Date 02/10/22	Time 12'11
COC INSPECTION					
Coc INSTECTION Client Name	Client PM/FC	☐ Sampler Name	Sampling Date/Time	Sample ID	Matrix
Address	DVel # / Fax #	☐ Courier Signature	Analysis Required	☐ Preservative (if any)	TAT
Safety Issues (if any)	☐ High concentrations exp	-	☐ Rad screening required		
Note:	2 ///g// com		5 1		
,					
PACKAGING INSPECTION					
Container Condition	Cooler	□ Box	Other		
		☐ Intact	☐ Damaged ☐ Popcorn		
	Bubble Pack Cooler 13.8/3.3°C	Styrofoam Cooler 25,2/4.7C	Cooler 3/1.8/1.3°C	□ Sufficient	
			Cooler 8°C	Cooler 4°C	Cooler 5°C
(Cool, ≤6 °C but not frozen)	□ Cooler 6°C	□ Cooler 7°C √d _B B - S/N 210271396	C-S/N 21027 13 99	Cooler 9°C	□ Cooler 10°C
Thermometer:	A-S/N 210191066 a 11	/ ''l	(1-)//V 2102715 TY	D - S/N	
Comments: Temperature is ou	t of range. PM was informe	ed IMMEDIATELY.	<u>, , , , , , , , , , , , , , , , , , , </u>		
Note:					
			·		
DISCREPANCIES					
LabSampleID	LabSampleContainerID		abel ID / Information	Corrective	Action
1	4-12	D22 ·		NX	
	<u> </u>				*
			······································		
					M SHID
☐ pH holding time requirement	t for water samples is 15 m	ins. Water samples for pH analy	ysis are received beyond 15 r	ninutes from sampling time.	NO THE
NOTES/OBSERVATIONS:					·
1101110,0101111111111111111111111111111					

				ar a	
X E CENTO				☐ Continue to next pa	
LEGEND:		Code Description-Sample Mana		Code Description-Sample Mana	•
Code Description-Sample Mana	•	D13 Out of Holding Time	agement	R1 Proceed as indicated in \square CO	0
D1 Analysis is not indicated in		D14 Bubble is >6mm		R2 Refer to attached instruction	C L Laber
D2 Analysis mismatch COC vs		D15 No trip blank in cooler		R3 Cancel the analysis	
D3 Sample ID mismatch COC		D16 Preservation not indicated i	in	R4 Use vial with smallest bubble	first
D4 Sample ID is not indicated in		D17 Preservation mismatch CO		R5 Log-in with latest sampling da	
D5 Container -[improper] [leak		D18 Insufficient chemical prese		R6 Adjust pH as necessary	. A
D6 Date/Time is not indicated in D7 Date/Time mismatch COC		D19 Insufficient Sample	4	R7 Filter and preserved as necessary	ary (1 5 1/
D8 Sample listed in COC is not		D20 No filtration info for dissol	ved analysis	R8 - NATIONAL AS NECESSARIAN R8 - NATIONAL R8 - NATIONA	"I l ler X
D9 Sample received is not liste		D21 No sample for moisture detern	-	R9 PO	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
D10 No initial/date on correction		622) Jet Fuel 8 Ave		R10	
D11 Container count mismatch (D23	on label	R11	
D12 Container size mismatch CO	No.	D24	12.105	R12	
	OMAZÍONA T .	•	what	-	0/0
REVIEWS: Sample Labeling	Maria Colla Plan	og) SRF		PM	CIVI
Date	02/10/22 02/10/22	Date	- W	Date	0 11/63
Date	- (1-1-0)				~ · · · · · · ·

REPORTING CONVENTIONS

DATA QUALIFIERS:

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

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

ACRONYMS AND ABBREVIATIONS:

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

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

986280

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

SDG#: 22B109

Client : EUROFINS EATON ANALYTICAL

Project: 986280

SDG : 22B109

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 02/10/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39B07B - 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. VG39B07L/VG39B07C 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 B109-01M/B109-01S. 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

CLICAT · FIRDETNY FATON ANALYTICAL	- FIDOFINS FATON ANALYTICAL		; 					SDG NO.	: 22B109
						•		Instrument ID	: GCT039
			1						
				WATER	ER				
Client	Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID		Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MBI K	VG39B07B	_	AN	02/10/2217:47	02/10/2217:47	EB10005A	EB10003A	22VG39B07 Method Blank	Blank
2007 -	VG39B071	_	AN	02/10/2218:24	02/10/2218:24	EB10006A	EB10003A	22VG39B07 Lab Co	22VG39B07 Lab Control Sample (LCS)
LCC ::	VG39B07C	-	N	02/10/2219:01	02/10/2219:01	EB10007A	EB10003A	22VG39B07 LCS Duplicate	plicate
202202090891	B109-02	1	NA	02/10/2221:27	02/10/2221:27	EB10011A	EB10003A	22VG39B07 Field Sample	Sample
202202090890	B109-01	1	AN	02/10/2222:03	02/10/2222:03	EB10012A	EB10003A	22VG39B07 Field Sample	Sample
202202090890MS	B109-01M	-	Ν	02/10/2222:40	02/10/2222:40	EB10013A	EB10003A	22VG39B07 Matrix	22VG39B07 Matrix Spike Sample (MS)
202202090890MSD	B109-01S	_	NA	02/10/2223:16	02/10/2223:16	EB10014A	EB10003A	227G39B07 MS Duplicate (MSD)	licate (MSD)

FN - Filename % Moist - Percent Moisture

SAMPLE RESULTS

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38

Project : 986280 Batch No. : 22B109 Sample ID : 202202090890 Date Received: 02/10/22 Date Extracted: 02/10/22 22:03 Date Analyzed: 02/10/22 22:03

Lab Samp ID: B109-01 Dilution Factor: 1 Lab File ID: EB10012A Matrix: WATER % Moisture: NA Ext Btch ID: 22VG39B07 Calib. Ref.: EB10003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0321 0.0400 80 60-140

Notes:

H-C Range Parameter C6-C10 Gasoline

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 5ml

Prepared by : SCerva Analyzed by : SCerva

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38

Project : 986280 Date Received: 02/10/22 Batch No. : 22B109 Sample ID : 202202090891 Date Extracted: 02/10/22 21:27 Date Analyzed: 02/10/22 21:27

Lab Samp ID: B109-02 Dilution Factor: 1 Lab File ID: EB10011A Matrix: WATER % Moisture: NA Ext Btch ID: 22VG39B07 Calib. Ref.: EB10003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY _____ 0.0313 0.0400 78 60-140 Bromofluorobenzene

Notes:

H-C Range Parameter 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

: SCerva Analyzed by : SCerva Prepared by

QC SUMMARIES

METHOD 50308/80158 TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/10/22 17:47

Project : 986280 Batch No. : 22B109 Sample ID : MBLK1W Date Received: 02/10/22 Date Extracted: 02/10/22 17:47

Date Analyzed: 02/10/22 17:47 Lab Samp ID: VG398078 Dilution Factor: 1 Matrix: WATER Lab File ID: EB10005A

Ext Btch ID: 22VG39B07 % Moisture: NA Calib. Ref.: EB10003A Instrument ID: 39

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

0.0400 Bromofluorobenzene 0.0328 60-140

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 5ml

Prepared by : SCerva Analyzed by : SCerva

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 986280 : 22B109

METHOD

: 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1

1

% MOISTURE:NA

1

SAMPLE ID : MBLK1W LAB SAMPLE ID : VG39B07B

: MBLK1W L

LCS1W LCD1W VG39B07L VG39B

LAB SAMPLE ID : VG59B07B

LAB FILE ID : EB10005A

DATE PREPARED : 02/10/22 17:47

DATE ANALYZED : 02/10/22 17:47

PREP BATCH : 22VG39B07

CALIBRATION REF: EB10003A

EB10006A 02/10/22 18:24 02/10/22 18:24 22VG39B07

EB10003A

VG39B07C EB10007A 02/10/22 19:01 02/10/22 19:01 22VG39B07 EB10003A

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	0.573	115	0.500	0.540	108	6	60-130	30

SURROGATE PARAMETER	SpikeAmt	LCSResult	LCSRec	SpikeAmt	LCDResult	LCDRec	QCLimit
	(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)	(%)
Bromofluorobenzene	0.0400	0.0445	111	0.0400	0.0431	108	70-130

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

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 986280 : 22B109

METHOD

: 5030B/8015B

MATRIX : WATER

% MOISTURE:NA

DILUTION FACTOR: 1 SAMPLE ID

: 202202090890

LAB SAMPLE ID : B109-01

202202090890MS

202202090890MSD

B109-01M B109-01S

LAB FILE ID

EB10013A

EB10014A

DATE PREPARED : 02/10/22 22:03

: EB10012A

02/10/22 23:16

02/10/22 22:40 DATE ANALYZED : 02/10/22 22:03 02/10/22 22:40

02/10/22 23:16

PREP BATCH

: 22VG39B07

CALIBRATION REF: EB10003A

22VG39B07 EB10003A

PSResult SpikeAmt

22VG39B07 EB10003A

ACCESSION:

MSResult	MSRec	SpikeAmt	MSDResult	MSDRec	RPD	QCLimit	MaxRPD
(ma/L)	(%)	(ma/L)	(ma/L)	(%)	(%)	(%)	(%)

PARAMETERS (mg/L) (mg/L) (mg/L) (mg/L) (%) (%) Gasoline ND 0.500 0.548 110 0.500 0.537 107 2 50-130 30

	SpikeAmt	MSResult	MSRec	SpikeAmt	MSDResult	MSDRec	QCLimit
SURROGATE PARAMETER	(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)	(%)
Bromofluorobenzene	0 0400	በ በ435	100	በ በፈበበ	በ በ437	109	60-14 0

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

986280

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22B109

Client: EUROFINS EATON ANALYTICAL

Project: 986280

SDG : 22B109

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/10/22 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. DSB014WB - 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 J5B014WL. 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. JP5 was within MS QC limits in 22B109-01M/22B109-01S. 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: 986280

SDG : 22B109

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/10/22 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. DSB014WB - 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 J5B014WL. 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. JP5 was within MS QC limits in 22B109-01M/22B109-01S. 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: 986280

SDG : 22B109

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 02/10/22 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. DSB014WB - 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 J8B014WL. 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. JP8 was within MS QC limits in 22B109-01M/22B109-01S. 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: 22B109

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CONTRACTOR CALLS CALLS AND VITABLE	ON ANALYTICAL							SDG NO. : 22B109	
CLIENT : EUROLING EAT	ON ANALI LOAL							1 . O. 11	
Project : 986280								יווס רו מוווט רו מוווט רו מוווט רו מוווט רו	
				WATER	ER				
+ 400.	Laboratorv	Laboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	Prep.	
Sample 10	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
	DSB014WI	,	AN	02/14/2215:05	02/10/2215:30	LB14010A	LB14003A	22DSB014W Lab Control Sample (LCS)	e (LCS)
K C S - W	DSB014WB		AN	02/14/2216:00	02/10/2215:30	LB14013A	LB14003A	22DSB014W Method Blank	
20220200000000000000000000000000000000	B109-01	· (-	¥	02/14/2217:14	02/10/2215:30	LB14017A	LB14003A	22DSB014W Field Sample	
2022223333 202202090890MS	B109-01M	-	AN	02/14/2217:32	02/10/2215:30	LB14018A	LB14003A	22DSB014W Matrix Spike Sample (MS)	le (MS)
202202090890MSD	B109-01S	_	N	02/14/2217:51	02/10/2215:30	LB14019A	LB14003A	22DSB014W MS Duplicate (MSD)	~

REPORT ID: 22B109

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

SIBUEINS	· FIRMETINS FATON ANALYTICAL							SDG NO.	: 22B109
								1 - 01 tagmint 10	?
Project : 986280								ווארו שוויין די	
	*								
				WATER	ER				
Client	Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	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 3	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1		
W183 =	J5B014WL	_	NA	02/14/2215:23	02/10/2215:30	LB14011A	LB14004A	22DSB014W Lab Co	22DSB014W Lab Control Sample (LCS)
MB: K1:	DSB014WB	_	NA	02/14/2216:00	02/10/2215:30	LB14013A	LB14004A	22DSB014W Method Blank	i Blank
2022020890	B109-01	-	NA	02/14/2217:14	02/10/2215:30	LB14017A	LB14004A	22DSB014W Field Sample	Sample
202202090890MS	B109-01M	-	NA	02/14/2218:09	02/10/2215:30	LB14020A	LB14004A	22DSB014W Matriy	22DSB014W Matrix Spike Sample (MS)
202202090890MSD	B109-01S	, -	N	02/14/2218:28	02/10/2215:30	LB14021A	LB14004A	22DSB014W MS Duplicate (MSD)	olicate (MSD)

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

SIND BIRDEING EATON ANALYTICAL	ANALYTICAL							SDG NO.	: 228109
								Instrument In . DS	
Project : 986280								וופרו מווכוור	
				WATER	ж Ж				
tuoi lo	Laboratory	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	es
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
71.07	J8B014WL	_	Ä	02/14/2215:42	02/10/2215:30	LB14012A	LB14005A	22DSB014W Lab	22DSB014W Lab Control Sample (LCS)
MB 7715	DSB014WB	_	AN	02/14/2216:00	02/10/2215:30	LB14013A	LB14005A	22DSB014W Method Blank	hod Blank
202202090890	B109-01	_	NA	02/14/2217:14	02/10/2215:30	LB14017A	LB14005A	22DSB014W Field Sample	ld Sample
202202030MS	B109-01M	-	NA	02/14/2218:46	02/10/2215:30	LB14022A	LB14005A	22DSB014W Mat	22DSB014W Matrix Spike Sample (MS)
202202090890MSD	B109-01S	-	AN	02/14/2219:04	02/10/2215:30	LB14023A	LB14005A	22DSB014W MS	22DSB014W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38 Date Received: 02/10/22

Project : 986280
Batch No. : 22B109
Sample ID : 202202090890 Date Extracted: 02/10/22 15:30 Date Analyzed: 02/14/22 17:14

Lab Samp ID: 22B109-01 Dilution Factor: 1 Matrix: WATER Lab File ID: LB14017A % Moisture: NA Ext Btch ID: 22DSB014W Calib. Ref.: LB14003A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.049	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.400	0.490	82	60-130
Hexacosane	0.105	0.123	86	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1020ml

Final Volume : 5ml

Prepared by : JMuert

Analyzed by : SDeeso

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38

Project : 986280 Date Received: 02/10/22
Batch No. : 22B109 Date Extracted: 02/10/22 15:30
Sample ID : 202202090890 Date Analyzed: 02/14/22 17:14

Lab Samp ID: 22B109-01 Dilution Factor: 1
Lab File ID: LB14017A Matrix: WATER
Ext Btch ID: 22DSB014W % Moisture: NA
Calib. Ref.: LB14004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.049	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.400 0.105	0.490 0.123	82 86	60-130 60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1020ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38 Project : 986280 Date Received: 02/10/22

Batch No. : 22B109 Date Extracted: 02/10/22 15:30 Sample ID : 202202090890 Date Analyzed: 02/14/22 17:14

 Lab Samp ID: 22B109-01
 Dilution Factor: 1

 Lab File ID: LB14017A
 Matrix: WATER

 Ext Btch ID: 22DSB014W
 % Moisture: NA

 Calib. Ref.: LB14005A
 Instrument ID: D5

	RESULTS	RL	MDL
PARAMETERS	(mg/L)	(mg/L)	(mg/L)
JP8	ND	0.049	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.400	0.490	82	60-130
Hexacosane	0.105	0.123	86	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 : 1020ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/10/22 15:30 Date Received: 02/10/22

Project : 986280 Batch No. : 22B109 Sample ID : MBLK1W Date Extracted: 02/10/22 15:30 Date Analyzed: 02/14/22 16:00

Lab Samp ID: DSB014WB Dilution Factor: 1 Matrix: WATER Lab File ID: LB14013A Ext Btch ID: 22DSB014W % Moisture: NA Instrument ID: D5 Calib. Ref.: LB14003A

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.386	0.500	77	60-130
Hexacosane	0.0970	n.125	78	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml Analyzed by : SDeeso Prepared by : JMuert

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSB014WB DSB014WL

LAB FILE ID : LB14013A LB14010A

DATE PREPARED : 02/10/22 15:30 02/10/22 15:30

DATE ANALYZED : 02/14/22 16:00 02/14/22 15:05

PREP BATCH : 22DSB014W 22DSB014W

CALIBRATION REF: LB14003A LB14003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.42	97	50-130
=======================================			=========	222222	========
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.477 0.126	95 101	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

% MOISTURE:NA

22B109~01S

202202090890MSD

MATRIX : WATER

DILUTION FACTOR: 1 1

SAMPLE ID : 202202090890 202202090890MS

LAB SAMPLE ID : 22B109-01 22B109-01M

LAB FILE ID : LB14017A LB14018A

DATE PREPARED : 02/10/22 15:30 02/10/22 15:30

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.65	2.95	111	2.60	2.82	108	5	50-130	30
=======================================	=======================================			======	========	========	=======		=======================================	=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.524 0.125	99 94	0.520 0.130	0.480 0.120	92 92		60-130 60-130	

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

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

 Client
 : EUROFINS EATON ANALYTICAL
 Date Collected: 02/10/22 15:30

 Project
 : 986280
 Date Received: 02/10/22

 Batch No.
 : 22B109
 Date Extracted: 02/10/22 15:30

 Sample ID
 : MBLK1W
 Date Analyzed: 02/14/22 16:00

Lab Samp ID: DSB014WB Dilution Factor: 1 Lab File ID: LB14013A Matrix: WATER Ext Btch ID: 22DSB014W % Moisture: NA Calib. Ref.: LB14004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.386 0.0970	0.500 0.125	77 78	60-130 60-130

Notes:

: Reporting Limit H-C Range Parameter C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml Prepared by : JMuert Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSB014WB J5B014WL
LAB FILE ID : LB14013A LB14011A
DATE PREPARED : 02/10/22 15:30 02/10/22 15:30
DATE ANALYZED : 02/14/22 16:00 02/14/22 15:23
PREP BATCH : 22DSB014W 22DSB014W
CALIBRATION REF: LB14004A LB14004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	1.99	80	30-160
=======================================					=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.510 0.123	102 98	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 : 22B109 BATCH NO. METHOD : 3520C/8015B

% MOISTURE:NA : WATER DILUTION FACTOR: 1

SAMPLE ID : 202202090890 LAB SAMPLE ID : 22B109-01 LAB FILE ID : LB14017A 202202090890MS 202202090890MSD 22B109-01S 22B109-01M LB14020A LB14021A DATE PREPARED : 02/10/22 15:30 02/10/22 15:30 02/10/22 15:30 02/14/22 18:09 02/14/22 18:28 DATE ANALYZED : 02/14/22 17:14 22DSB014W PREP BATCH : 22DSB014W 22DSB014W LB14004A LB14004A CALIBRATION REF: LB14004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.62	2.25	86	2.62	1.85	70	20	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	0.559 0.108	106 82	0.525 0.131	0.476 0.111	91 85		60-130 60-130	

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

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/10/22 15:30

 Project
 : 986280
 Date Received: 02/10/22

 Batch No.
 : 22B109
 Date Extracted: 02/10/22 15:30

 Sample ID
 : MBLK1W
 Date Analyzed: 02/14/22 16:00

Lab Samp ID: DSB014WB Dilution Factor: 1
Lab File ID: LB14013A Matrix: WATER
Ext Btch ID: 22DSB014W % Moisture: NA

Calib. Ref.: LB14005A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Broillobenzene Hexacosane	0.386 0.0970	0.500 0.125	77 78	60~130 60-130

Notes:

RL : Reporting Limit
Parameter H-C Range

P8 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 : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSB014WB J8B014WL
LAB FILE ID : LB14013A LB14012A
DATE PREPARED : 02/10/22 15:30 02/10/22 15:30
DATE ANALYZED : 02/14/22 16:00 02/14/22 15:42
PREP BATCH : 22DSB014W 22DSB014W
CALIBRATION REF: LB14005A LB14005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	1.63	65	30-160
=======================================	=========				
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.461 0.114	92 91	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

CALIBRATION REF: LB14005A

% MOISTURE:NA MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 202202090890 LAB SAMPLE ID : 22B109-01 202202090890MSD 202202090890MS 22B109-01M 22B109-01S LAB FILE ID : LB14017A LB14022A LB14023A DATE PREPARED : 02/10/22 15:30 02/10/22 15:30 02/10/22 15:30 DATE ANALYZED : 02/14/22 17:14 02/14/22 18:46 02/14/22 19:04 22DSB014W 22DSB014W PREP BATCH : 22DSB014W

LB14005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	1.95	74	2.62	2.16	82	10	30-160	30
	===========	========	=======================================			=======================================				=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.558 0.130	105 98	0.525 0.131	0.525 0.115	100 88		60-130 60-130	

LB14005A

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



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

Date: 02-16-2022

EMAX Batch No.: 22B109

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 986280

Enclosed is the Laboratory report for samples received on 02/10/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202202090890	B109-01 02/07/22	WATER	ТРН
202202090891	B109-02 02/07/22	WATER	TPH GASOLINE
202202090890MS	B109-01M 02/07/22	WATER	TPH
202222222222	P400 040 02/07/22	LIATED	TPH GASOLINE
202202090890MSD	B109-01S 02/07/22	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

Caspar J. Pang Laboratory Director

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

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912021-19 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing California ELAP Accredited Certificate Number 2672

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

22B 109

*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 986280 Job # 1000014 Report all quality control data according to Method, Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.

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

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

Samples from: HAWAII

2-3 day rush RED HIII

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

986280

02/14/2022

PWSID Static ID Clip Code Sample Date & Time Matrix 02/07/22 1038 DW Sample Point ID: Facility ID: Client Sample ID for reference on! MOANALUA WELLS (331-223-TP202) Sample Event: $injlie{}$ 202202090890 Sample type: Sample ID

SI

TPH 8015 Diesel and Motor Oil **Analysis Requested** Jet Fuel 8 C8-C18 Jet Fuel 5 C8-C18 **Prep Method EPA 3550B EPA** 8015 SW 8015B **EPA 8015 EPA** 8015 Method

Sample ID

Facility ID: Client Sample ID for reference on! TRAVEL BLANK::MOANALUA WELLS (331-223-TP202) Sample Event: (E) 202202090891

 $\mathbb{S}\mathbb{T}$

PWSID

Clip Code

Sample Date & Time Matrix

02/07/22 1038 DW

Sample Point ID:

Static ID:

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

Sample type:

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is reguested to attn. Jackie Contreras

Temp, 3.8/3.8, 5.2/4.7,1.8/1.3

Page 4 of 5

Date 2 (16/12 Time (2: //

Date Date

Sample Control

Relinquished by:

astr.

Time Time

Date

Sample Control

Relinquished by:

Received by:

REPORT ID: 22B109*50 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: Page 52 of 85 pages

Reference: Addendum SM02.11.1

Form: SM02F1

Tymo of Do	alinary	Airbill / Track	ring Number	ECN 22B109	
Type of De		Allolli / Hack	ang ivamoei		tivera
				Date 02/10/22	Time 12'11
□ EMAX Courier Client Deli	very			Date 0 2/10/22	11me [2, []
COC INSPECTION					
Client Name	Client PM/FC	☐ Sampler Name	Sampling Date/Time	Sample ID	Matrix
15 Address	Del # / Fax #	☐ Courier Signature	Analysis Required	☐ Preservative (if any)	TAT
Safety Issues (if any)	☐ High concentrations exp	ected	☐ Rad screening required		,
Note:					
PACKAGING INSPECTION					
Container Condition Condition	Cooler	□ Box	Other		
Condition Factor -	Custody Seal	☐ Intact	☐ Damaged		
	Bubble Pack	□ Styrofoam	□ Popcom ·	☐ Sufficient	
Temperatures _0.5	Cooler 13.8/3.3°C	S Cooler 25,2/4.7C	Cooler 3/1.8/1.3°C	Cooler 4°C	□ Cooler 5°C
(Cool, ≤6 °C but not frozen)	Cooler 6°C	Cooler 7°C	Cooler 8°C	☐ Cooler 9°C	☐ Cooler 10°C
Thermometer:	A-S/N 210191066 2 1	Cooler 7°C Cooler 7°C Cooler 7°C Cooler 7°C Cooler 7°C	C-XN 210271399	D - S/N	
Comments: Temperature is ou	it of range. PM was informe	d IMMEDIATELY.			
Note:					
DISCREPANCIES	T			· · · · · · · · · · · · · · · · · · ·	
LabSampleID	LabSampleContainerID		abel ID / Information	Corrective	Action
	4-12	D22 ·		128	
		l			
**					
					00
☐ pH holding time requirement	t for water camples is 15 m	ins Water samples for pH analy	vsis are received hevond 15 r	nimites from sampling time	- R15 2/11/2 -
in pri noming time requirement	t for water samples is 15 m	ms. Water bumples for pir unus.	your are received only only to h	marates from bamping time.	1 '
NOTES/OBSERVATIONS:	•				
Y ECENID.				☐ Continue to next pa	an a
LEGEND:		Code Description Comple Man	agamant		
Code Description-Sample Man	-	Code Description-Sample Man	agement	Code Description-Sample Mana R1 Proceed as indicated in □ CO	~
D1 Analysis is not indicated in		D13 Out of Holding Time			C Lauci
D2 Analysis mismatch COC vs		D14 Bubble is >6mm		R2 Refer to attached instruction	
D3 Sample ID mismatch COC		D15 No trip blank in cooler		R3 Cancel the analysis	·
D4 Sample ID is not indicated		D16 Preservation not indicated		R4 Use vial with smallest bubble	
D5 Container -[improper] [leak	== =	D17 Preservation mismatch CO		R5 Log-in with latest sampling da	te and time+1 min
D6 Date/Time is not indicated	in	D18 Insufficient chemical prese	ervative	R6 Adjust pH as necessary	M=
D7 Date/Time mismatch COC	vs label	D19 Insufficient Sample		R7 Filter and preserved as necessary	
D8 Sample listed in COC is not		D20 No filtration info for dissol		R8 INTIMU	wen,
D9 Sample received is not liste	d in COC	D21 No sample for moisture deter		R9	: 1 .
D10 No initial/date on correction	ns in COC/label	022) jet Fuel 8 m	alysis not Indicated	R10 V	
D11 Container count mismatch	COC vs received	D23	on label	R11	
D12 Container size mismatch Co		D24	1	R12	
REVIEWS:	maria Joselyne		yshab.		AM
Sample Labeling	: "rivera Collif Dan	no) sri	F	PM	
	02/10/22 02/10/22	Date	e <u> </u>	Date	2/11/22
			· -		- • • •

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

986280

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

SDG#: 22B109

Client : EUROFINS EATON ANALYTICAL

Project: 986280

SDG : 22B109

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 02/10/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39B07B - 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. VG39B07L/VG39B07C 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 B109-01M/B109-01S. 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

 	;; 							٠
Client : EUROFINS EATON ANALYTICAL	ON ANALYTICAL							SUG NO
						•		Instrument ID : GCTU39
		## 	 					
				WATER	ER			
Client	Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	η Prep.
Sample ID	Sample ID		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 2 1 1 1 2	1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	VG39B07B	_	AN	02/10/2217:47	02/10/2217:47	EB10005A	EB10003A	22VG39B07 Method Blank
100 J	VG39B07I	_	AN	02/10/2218:24	02/10/2218:24	EB10006A	EB10003A	22VG39B07 Lab Control Sample (LCS)
100 - 100 -	VG39B07C	-	N	02/10/2219:01	02/10/2219:01	EB10007A	EB10003A	22yG39B07 LCS Duplicate
202202090891	B109-02	1	NA	02/10/2221:27	02/10/2221:27	EB10011A	EB10003A	22yG39B07 Field Sample
202202090890	B109-01	1	AN	02/10/2222:03	02/10/2222:03	EB10012A	EB10003A	22VG39B07 Field Sample
202202090890MS	B109-01M	-	NA	02/10/2222:40	02/10/2222:40	EB10013A	EB10003A	22VG39B07 Matrix Spike Sample (MS)
202202090890MSD	B109-01S	_	NA	02/10/2223:16	02/10/2223:16	EB10014A	EB10003A	22VG39BO7 MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

SAMPLE RESULTS

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38

Project : 986280 Batch No. : 22B109 Sample ID : 202202090890 Date Received: 02/10/22 Date Extracted: 02/10/22 22:03 Date Analyzed: 02/10/22 22:03

Lab Samp ID: B109-01 Dilution Factor: 1 Lab File ID: EB10012A Matrix: WATER % Moisture: NA Ext Btch ID: 22VG39B07 Calib. Ref.: EB10003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0321 0.0400 80 60-140

Notes:

H-C Range Parameter C6-C10 Gasoline

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 5ml

Prepared by : SCerva Analyzed by : SCerva

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38 Project : 986280 Date Received: 02/10/22

Batch No. : 22B109 Sample ID : 202202090891 Date Extracted: 02/10/22 21:27 Date Analyzed: 02/10/22 21:27

Lab Samp ID: B109-02 Dilution Factor: 1 Lab File ID: EB10011A Matrix: WATER % Moisture: NA Ext Btch ID: 22VG39B07 Calib. Ref.: EB10003A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY _____ 0.0313 0.0400 78 60-140 Bromofluorobenzene

Notes:

H-C Range Parameter 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

: SCerva Analyzed by : SCerva Prepared by

QC SUMMARIES

METHOD 50308/80158 TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/10/22 17:47

Project : 986280 Batch No. : 22B109 Sample ID : MBLK1W Date Received: 02/10/22 Date Extracted: 02/10/22 17:47

Date Analyzed: 02/10/22 17:47 Lab Samp ID: VG398078 Dilution Factor: 1 Matrix: WATER Lab File ID: EB10005A

Ext Btch ID: 22VG39B07 % Moisture: NA Calib. Ref.: EB10003A Instrument ID: 39

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

0.0400 Bromofluorobenzene 0.0328 60-140

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 5ml

Prepared by : SCerva Analyzed by : SCerva

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 986280 : 22B109

METHOD

: 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1

1

% MOISTURE:NA

SAMPLE ID LAB SAMPLE ID : VG39B07B LAB FILE ID

: MBLK1W : EB10005A LCS1W VG39B07L EB10006A 1 LCD1W VG39B07C EB10007A

DATE PREPARED : 02/10/22 17:47 DATE ANALYZED : 02/10/22 17:47 PREP BATCH : 22VG39B07 CALIBRATION REF: EB10003A

02/10/22 18:24 02/10/22 18:24 22VG39B07 EB10003A

02/10/22 19:01 02/10/22 19:01 22VG39B07 EB10003A

ACCESSION:

MBResult SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec QCLimit MaxRPD PARAMETERS (%) (mg/L) (mg/L) (mg/L) (%) (mg/L) (mg/L) (%) (%) (%) 0.500 0.573 0.500 0.540 108 60-130 30 Gasoline ND 115

LCSResult LCSRec SpikeAmt SpikeAmt LCDResult LCDRec QCLimit

SURROGATE PARAMETER (mg/L) (mg/L) (%) (mg/L) (mg/L) (%) (%) 70-130 Bromofluorobenzene 0.0400 0.0445 111 0.0400 0.0431 108

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

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 986280

METHOD

: 22B109 : 5030B/8015B

MATRIX : WATER

% MOISTURE:NA

DILUTION FACTOR: 1 SAMPLE ID : 202202090890

LAB SAMPLE ID : B109-01

202202090890MS

202202090890MSD

B109-01M

B109-01S

LAB FILE ID : EB10012A DATE PREPARED : 02/10/22 22:03

EB10013A

EB10014A

02/10/22 22:40

02/10/22 23:16

02/10/22 22:40

DATE ANALYZED : 02/10/22 22:03

02/10/22 23:16

PREP BATCH : 22VG39B07

22VG39B07

22VG39B07

CALIBRATION REF: EB10003A

EB10003A

EB10003A

ACCESSION:

PARAMETERS	(mg/L)	SpikeAmt (mg/L)	(mg/L)	(%)	(mg/L)	MSDResult (mg/L)	(%)	RPD (%)	(%)	MaxRPD (%)
Gasoline	ND	0.500	0.548	110	0.500	0.537	107	2	50-130	30
*****************		=======================================		======	=======	========	=======	=======	=======	=======

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResuit (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0435	109	0.0400	0.0437	109	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

986280

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22B109

Client: EUROFINS EATON ANALYTICAL

Project: 986280

SDG : 22B109

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 02/10/22 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. DSB014WB - 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 J5B014WL. 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. JP5 was within MS QC limits in 22B109-01M/22B109-01S. 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: 986280

SDG : 22B109

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/10/22 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. DSB014WB - 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 J5B014WL. 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. JP5 was within MS QC limits in 22B109-01M/22B109-01S. 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: 986280

SDG : 22B109

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 02/10/22 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. DSB014WB - 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 J8B014WL. 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. JP8 was within MS QC limits in 22B109-01M/22B109-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

rlient . Fll	· FURDEINS FATON ANALYTICAL							SDG NO. : 228109	3109
								Instrument ID . DS	
Project : 986280	6280								
				WATER	ER				
tra :	Laboratorv	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	
	1 1 1 1 1	1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
I retu	DSB014WI	-	AN	02/14/2215:05	02/10/2215:30	LB14010A	LB14003A	22DSB014W Lab Control Sample (LCS)	l Sample (LCS)
MBI K1L	DSB014WB	_	NA	02/14/2216:00	02/10/2215:30	LB14013A	LB14003A	22DSB014W Method Blank	٦Ł
202202090890	B109-01	,	NA	02/14/2217:14	02/10/2215:30	LB14017A	LB14003A	22DSB014W Field Sample	le
202202030890MS	B109-01M	-	AN	02/14/2217:32	02/10/2215:30	LB14018A	LB14003A	22DSB014W Matrix Spike Sample (MS)	ke Sample (MS)
202202090890MSD	8	-	AN	02/14/2217:51	02/10/2215:30	LB14019A	LB14003A	22DSB014W MS Duplicate (MSD)	te (MSD)

FN - Filename % Moist - Percent Moisture

REPORT ID: 22B109

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

- +uo: 10	· FIRDEINS FATON ANALYTICAL							SDG NO. : 2;	: 22B109
	CONCLUDE CALCULATION CONTRACT LANGE							10 - 01 +00min+001	
Project : 9	: 986280							יוופרו מוובוור זה	
			;; ;; ;; ;; ;; ;; ;; ;; ;;			17 11 11 11 11 11 11 11 11			
				WATER	ER				
Client	Laboratory	/ Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Sample ID Factor	Moist	DateTime	Datelime	Data FN	Data FN	Batch Notes	
	1 1 1 1 1 1	1 1 1 1	1 1 3	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LCS 1W	J5B014WL	,	AN	02/14/2215:23	02/10/2215:30	LB14011A	LB14004A	22DSB014W Lab Control Sample (LCS)	of Sample (LCS)
MRI K1E	DSB014WB	.	NA	02/14/2216:00	02/10/2215:30	LB14013A	LB14004A	22DSB014W Method Blank	ink
2022020890	B109-01	-	NA	02/14/2217:14	02/10/2215:30	LB14017A	LB14004A	22DSB014W Field Sample	ole
202202090890MS		-	NA	02/14/2218:09	02/10/2215:30	LB14020A	LB14004A	22DSB014W Matrix Spike Sample (MS)	ike Sample (MS)
202202090890MSD	80	_	NA	02/14/2218:28	02/10/2215:30	LB14021A	LB14004A	22DSB014W MS Duplicate (MSD)	ate (MSD)

FN - Filename % Moist - Percent Moisture

REPORT ID: 22B109

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

	CINCH ENDORING EATON ANALYTICAL							SDG NO. : 22B109
	אס באוסון אוארני ודכער							1 - 01 + ment 1 - 05
Project : 986280								
				WATER	ER			
Client	Laboratory	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	} ; ; ;	1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21831	J88014WL	_	AN	02/14/2215:42	02/10/2215:30	LB14012A	LB14005A	22DSB014W Lab Control Sample (LCS)
M	DSB014WB	_	NA	02/14/2216:00	02/10/2215:30	LB14013A	LB14005A	22DSB014W Method Blank
202202090890	B109-01	_	AN	02/14/2217:14	02/10/2215:30	LB14017A	LB14005A	22DSB014W Field Sample
202202090890MS	B109-01M	-	NA	02/14/2218:46	02/10/2215:30	LB14022A	LB14005A	22DSB014W Matrix Spike Sample (MS)
202202090890MSD	B109-01S	~	NA	02/14/2219:04	02/10/2215:30	LB14023A	LB14005A	22DSB014W MS Duplicate (MSD)

SAMPLE RESULTS

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38 Date Received: 02/10/22

Project : 986280
Batch No. : 22B109
Sample ID : 202202090890 Date Extracted: 02/10/22 15:30 Date Analyzed: 02/14/22 17:14

Lab Samp ID: 22B109-01 Dilution Factor: 1 Matrix: WATER Lab File ID: LB14017A % Moisture: NA Ext Btch ID: 22DSB014W Instrument ID: D5 Calib. Ref.: LB14003A

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.025 0.049	0.012 0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.400	0.490 0.123	82 86	60-130 60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1020ml Final Volume : 5ml

Analyzed by : SDeeso Prepared by : JMuert

Date Collected: 02/07/22 10:38 Client : EUROFINS EATON ANALYTICAL

Project : 986280
Batch No. : 22B109
Sample ID : 202202090890 Date Received: 02/10/22 Date Extracted: 02/10/22 15:30 Date Analyzed: 02/14/22 17:14

Lab Samp ID: 22B109-01 Dilution Factor: 1 Matrix: WATER Lab File ID: LB14017A Ext Btch ID: 22DSB014W % Moisture: NA Calib. Ref.: LB14004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.049	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.400	0.490	82	60-130

0.105 0.123 Hexacosane ______

60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 1020ml Prepared by : JMuert Analyzed by : SDeeso

REPORT ID: 22B109

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/07/22 10:38 Project : 986280 Date Received: 02/10/22

Batch No. : 22B109 Date Extracted: 02/10/22 15:30 Sample ID : 202202090890 Date Analyzed: 02/14/22 17:14

 Lab Samp ID: 22B109-01
 Dilution Factor: 1

 Lab File ID: LB14017A
 Matrix: WATER

 Ext Btch ID: 22DSB014W
 % Moisture: NA

 Calib. Ref.: LB14005A
 Instrument ID: D5

	RESULTS	RL	MDL
PARAMETERS	(mg/L)	(mg/L)	(mg/L)
JP8	ND	0.049	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.400 0.105	0.490 0.123	82 86	60-130 60-130
nexacosane	0.107			

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 : 1020ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

REPORT ID: 22B109

QC SUMMARIES

REPORT ID: 22B109

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/10/22 15:30 Date Received: 02/10/22

Project : 986280 Batch No. : 22B109 Sample ID : MBLK1W Date Extracted: 02/10/22 15:30 Date Analyzed: 02/14/22 16:00

Lab Samp ID: DSB014WB Dilution Factor: 1 Matrix: WATER Lab File ID: LB14013A Ext Btch ID: 22DSB014W % Moisture: NA Instrument ID: D5 Calib. Ref.: LB14003A

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.386	0.500	77	60-130
Hexacosane	n.n97n	0.125	78	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml Analyzed by : SDeeso Prepared by : JMuert

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSB014WB DSB014WL

LAB FILE ID : LB14013A LB14010A

DATE PREPARED : 02/10/22 15:30 02/10/22 15:30

DATE ANALYZED : 02/14/22 16:00 02/14/22 15:05

PREP BATCH : 22DSB014W 22DSB014W

CALIBRATION REF: LB14003A LB14003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.42	97	50-130
		========	=========		=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.477 0.126	95 101	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

% MOISTURE:NA

22B109~01S

202202090890MSD

MATRIX : WATER

DILUTION FACTOR: 1 1

SAMPLE ID : 202202090890 202202090890MS

LAB SAMPLE ID : 22B109-01 22B109-01M

LAB FILE ID : LB14017A LB14018A

DATE PREPARED : 02/10/22 15:30 02/10/22 15:30

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.65	2.95	111	2.60	2.82	108	5	50-130	30
=======================================	=======================================			======	========	========	=======		=======================================	=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.524 0.125	99 94	0.520 0.130	0.480 0.120	92 92		60-130 60-130	

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

 Client
 : EUROFINS EATON ANALYTICAL
 Date Collected: 02/10/22 15:30

 Project
 : 986280
 Date Received: 02/10/22

 Batch No.
 : 22B109
 Date Extracted: 02/10/22 15:30

 Sample ID
 : MBLK1W
 Date Analyzed: 02/14/22 16:00

Lab Samp ID: DSB014WB Dilution Factor: 1 Lab File ID: LB14013A Matrix: WATER Ext Btch ID: 22DSB014W % Moisture: NA Calib. Ref.: LB14004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.386 0.0970	0.500 0.125	77 78	60~130 60-130

Notes:

: Reporting Limit H-C Range Parameter

C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSB014WB J5B014WL
LAB FILE ID : LB14013A LB14011A
DATE PREPARED : 02/10/22 15:30 02/10/22 15:30
DATE ANALYZED : 02/14/22 16:00 02/14/22 15:23
PREP BATCH : 22DSB014W 22DSB014W
CALIBRATION REF: LB14004A LB14004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	1.99	80	30-160
		========	=======================================	========	=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.510 0.123	102 98	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

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

SAMPLE ID : 202202090890 LAB SAMPLE ID : 22B109-01 LAB FILE ID : LB14017A 202202090890MS 202202090890MSD 22B109-01S 22B109-01M LB14020A LB14021A DATE PREPARED : 02/10/22 15:30 02/10/22 15:30 02/10/22 15:30 02/14/22 18:09 02/14/22 18:28 DATE ANALYZED : 02/14/22 17:14 22DSB014W PREP BATCH : 22DSB014W 22DSB014W LB14004A LB14004A CALIBRATION REF: LB14004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.62	2.25	86	2.62	1.85	70	20	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	0.559 0.108	106 82	0.525 0.131	0.476 0.111	91 85		60-130 60-130	

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/10/22 15:30

Project : 986280 Batch No. : 22B109 Sample ID : MBLK1W Date Received: 02/10/22 Date Extracted: 02/10/22 15:30 Date Analyzed: 02/14/22 16:00

Lab Samp ID: DSB014WB Dilution Factor: 1 Lab File ID: LB14013A Matrix: WATER % Moisture: NA Ext Btch ID: 22DSB014W

Calib. Ref.: LB14005A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.386 0.0970	0.500 0.125	77 78	60-130 60-130

Notes:

RL : Reporting Limit H-C Range Parameter

C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 1000ml

Analyzed by : SDeeso Prepared by : JMuert

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1
SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSB014WB J8B014WL
LAB FILE ID : LB14013A LB14012A

DATE PREPARED : 02/10/22 15:30 02/10/22 15:30

DATE ANALYZED : 02/14/22 16:00 02/14/22 15:42

PREP BATCH : 22DSB014W 22DSB014W

CALIBRATION REF: LB14005A LB14005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	1.63	65	30-160
=======================================	=========		========	=======	
		SpikeAmt	LCSResult	LCSRec	QCLimit
SURROGATE PARAMETERS		(mg/L)	(mg/L)	(%)	(%)
Bromobenzene Hexacosane		0.500 0.125	0.461 0.114	92 91	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 986280 BATCH NO. : 22B109 METHOD : 3520C/8015B

 MATRIX
 : WATER
 % MOISTURE:NA

 DILUTION FACTOR:
 1
 1

 SAMPLE ID
 : 202202090890
 202202090890MS
 202202090890MSD

 LAB SAMPLE ID
 : 22B109-01
 22B109-01M
 22B109-01S

 LAB FILE ID
 : LB14017A
 LB14022A
 LB14023A

 DATE DEFRAPED
 : 02/10/22 15:30
 02/10/22 15:30

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	1.95	74	2,62	2.16	82	10	30-160	30
	=========	========	=======================================			=========				=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.558 0.130	105 98	0.525 0.131	0.525 0.115	100 88		60-130 60-130	

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