Eaton Analytical

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Laboratory Report

for

Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843 Attention: Erwin Kawata Fax: 808-550-5018

Date of Issue 05/23/2022

DEB: Debbie L Frank

Project Manager

Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015_RED-HILL (2022) - EMAX

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

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

ORAT

Utah ELCP CA00006



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STATE CERTIFICATION LIST

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

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

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ISO/IEC 17025:2917 Accredited Method List

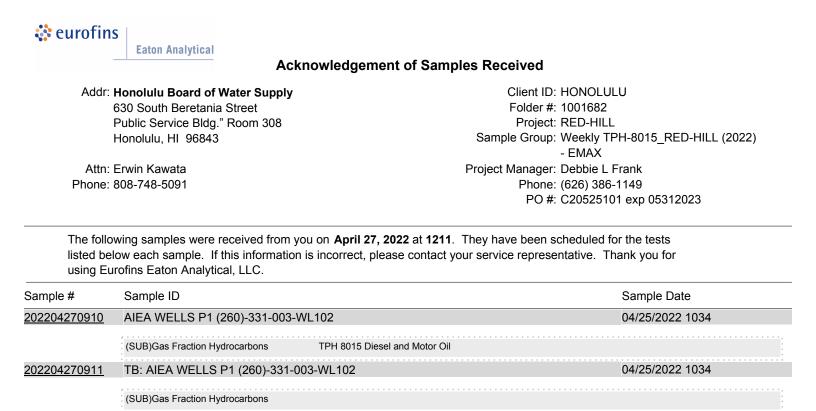
The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA. Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

	https://	www.e	eurofinsus.	.com/Eator
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Test(s)Method(s)Potable WaterWaste WaterEnterococciEnterolentxxEscherichia coliSM 9221 FxxFecal Coliform (PA and Enumeration)M9230 BxxFecal Streptococci and EnumerationSM 9230 BxxHeterotrophic BacteriaSM 9215 BxxLegionellaLegiolett®xxPseudomonas aeruginosaPseudalentxxTotal Coliform, TotalSM 9221, SM 8221 CxxTotal Coliform, TotalSM 9221, SM 8221 CxxPresentSM 9221, SM 8221 CxxTotal Coliform, TotalSM 9221 BxxTotal Coliform, TotalSM 9223xxTotal Coliform, TotalSM 9223xxTotal Coliforny, TotalSM 9221 BxxTotal Coliforny, Total not faita BxxTotal Coliforny, TotalSM 9223xTotal Coliforny, TotalSM 9221 BxTotal Coliforny, TotalSM 9221 BxTotal Coliforny, TotalSM 9221 BxAlcalinitySM 9223xAlcalinitySM 9200 CxAlcalinitySM 9200 CxAlcalinitySM 920				www.eu
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Cyanide (Amenable)GXXCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride*335 Modx(Screen)(WC-24467)xDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBP/TCPEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1, *(LCMS-2445)xFluorideSM 4500F CxSM 4500F CxxGlyphosate and AMPA* LCMS-3618x		SM 4500-CN		
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Disinfection ByproductsEPA 551.1XEDTA and NTA* WC-2454xEndothallEPA 548.1, *(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x				
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EndothallEPA 548.1, *(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x		+ WC-2454	х	
Elidotriali +(LCMS-2445) X Fluoride SM 4500F C x x Glyphosate EPA 547 x Glyphosate and AMPA + LCMS-3618 x				
Fluoride SM 4500F C x x Glyphosate EPA 547 x x Glyphosate and AMPA * LCMS-3618 x x	Endothall		х	
Glyphosate EPA 547 x Glyphosate and AMPA *LCMS-3618 x	Fluorido	· · · · · · · · · · · · · · · · · · ·	Y	v
Glyphosate and AMPA + LCMS-3618 x				^
Gross Alpha and Gross Beta EPA 900.0 X X				
	Gross Alpha and Gross Beta	EPA 900.0	Х	Х

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

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



Test Description

Page 1 of 1

🐝 eurofins			Ч С Н	AIN	DF CUST	CHAIN OF CUSTODY RECORD	CORD		1.5	
	Eaton Analytical	EUROFINS EATON ANALYTICAL		USE ONLY.					10	100/68-
750 Roval Oaks Drive Suite 100	ive Suite 100	LOGIN COMMENTS:				SA	SAMPLES CHECKED AGAINST COC BY:	GAINST	COC BY:	2
Monrovia, CA 91016-3629	16-3629						SAMPLES LOGGED IN BY:	S LOGGE	D IN BY:	•
Phone: 626 386 1100	00	SAMPLE TEMP RECEIVED AT:	/ED AT: ia / Arizor	e	°C (Complia	(Compliance: 4 + 2 °C)	SAMPLES REC'D DAY OF COLLECTION?	OF COLL		(check for yes)
Fax: 626 386 1101		Monrovia		2.8) ູ 	°C (Compliance: 4±2°C)				
800 566 LABS (800 566 5227)	0 566 5227)	CONDITION OF BLUE ICE:		Frozen		en 🔨 Thawed	Wet Ice	z	No Ice	
		METHOD OF SHIPMENT		Pick-Up / Walk-In /		UPS / DHL / Area	FedEx / UPS / DHL / Area Fast / Top Line / Other:)ther:		
TO BE COMPLETED BY SAMPLER:	AMPLER:					(ct	(check for yes)		(che	(check for yes)
COMPANY/AGENCY NAME:	AME:	PROJECT CODE:			COM	COMPLIANCE SAMPLES		OMPLIAN	NON-COMPLIANCE SAMPLES	x
BW	BWS HONOLULU	REI	RED HILL		- Requires sta Type of samples (circle one):	te	NE SPECIAL	CONFIRMATION INVOLVED: CONFIRMATION (eq SDWA)	VOLVED:	(NPDES FDA)
EEA CLIENT CODE:	COC ID:	SAMPLE GROUP:			SEE ATTACH	HED BOTTLE OR		SES	X (check for yes),	es), OR
		Weekly TPH-8015_RED.		HILL (2022)		ES REQUIRED (ente	list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	sent for	each test for e	ach sample)
TAT requested: rush by adv notice only	r adv notice only	STD 1 wk X 3 day	2 day	1 day						
JJAMA2 JTAQ JAMA2 JMIT	SAMPLE ID	CLIENT LAB ID	• XIATAM	АТАО ОЈЗІ: 	9ed Hill Wee SS0S 1qA				SA	SAMPLER COMMENTS
04/25/22 1024 Aiea We	Aiea Wells Pump P1	HI0000331-003	CFW		X					
				/						
									Temp Blank:	ink:°C
				-						
* MATRIX TYPES:	* MATRIX TYPES: RSW = Raw Surface Water RGW = Raw Ground Water	rr CFW = Chlor(am)inated Finished Water rr FW = Other Finished Water	ated Finisl d Water	ned Water	SEAW = Sea Water WW = Waste Water		BW = Bottled WaterSO = SoilSW = Storm WaterSL = Slud	SO = Soil SL = Sludge	O = Other -	O = Other - Please Identify
		-		PRINT NAME		COMP	COMPANY/TITLE		DATE	TIME
				L. Bailey		Honolulu Boar	Honolulu Board of Water Supply	-	April 25, 2022	and the second se
RELINQUISHED BY:		101	C	L. Bailey		Honolulu Boar	Honolulu Board of Water Supply	4	12021021	1200
RECEIVED BY:	21	N.A.	GREN	REITNER		EEA		60	04.27.2022	11:21
RELINQUISHED BY:										
RECEIVED BY:										
									PAGE	1 OF 1

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Action for bolds or witten superior (city witten superior) Red out for bolds or witten superior (city witten superior) Red out for bolds or witten superior) Red out for bolds or witten superior)	Page 1 of	12:06:33AM					No. of the second s									
Currofins Kit Order for BOARD OF WATER SUPPLY, CITY ANI Debtie L Fank is your Eurofine Eaton Analytical, LLC Sa 260 Forus Suite (0) Kurens sources (250) 3051-010 FXX (859) 393-3797 Note: Sampler Please return this paper with you Glori th: InfOVOLUL Clori th: InfOVOLUC Clori th: InfO	NTY OF Ineger		÷	Billing Addrees Honolulu Board of Waler Supply 630 South Berefanla Streat Public Service Bidg." Room 308 Honolulu, Hi 95843	Attr: Enwin Kawata Phone: 808-748-5091 Fax: 808-550-5018			2	2	otties: 11					、	
 CLIFOFINS *6. Telyritczi 750 Royal Oaks Drive, Suite 100 Monrovia, Catifornia 61016-3629 (525) 336-1100 FAX (856) 988-3757 Kitr #: 309377 [[[[B]B]][[B]B]][[B]B][[B]	RD OF WATER SUPPLY, CITY AND COU!	r Please return this paper with your sam	Citent ID: HONOLULU Code: HONOLULU roject Code: RED-HILL Bottle Orders rroup Name: Red-Hill Expanded List (Albuquerque PO#/JOB#: C20525101 exp 05312023 PO#/JOB#: C20525101 exp 05312023 Pescription: AIEA WELLS PUMPS 1&2 (260) - (Send Report to Honolutu Board of Water Supply 630 South Beretania Street Public Service Bidg." Room 308 Honolutu, HI 98843	Attr: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	/ - Type [preservative information]	ber glass (1 ml Thio 8%)	amber glass vial (1 drop Thio (8%) 1		Sum B		(GLASS BOTTLES FOR TPH 8016 SERIES.	use extra Contraionr Labels)	ples.		
Curofins To Royal Oaks Drive, Suite 10 Monrovia, Catifornia 91016-362 (626) 396-1100 FAX (865) 998- Kit #: 309377 Kit #: 309377 Created By: - [AutoGen Deliver By: 02/02/2022 STG: Botte Orde Lea Type: G Pre Registered Free Registered Pre				Bhth Sample Kits to Honotulu Board of Water Supply 630 South Beretania Sireet Chamistry Lab Honotulu, HI 98843	Attr. Ron Fenslemacher Phone: 808-748-5841 Fax: 808-550-5572						19-11-108) -	s for 625 series and SK 1 liter amber	 Prepare TBs in the VOA LAB. th Handies with Site description of contents (u 	s nasded for any new detections in Field samp 24		
		750 Royal Oaks Drive, Sulte 10 Monrovia, California 91016-362 (626) 388-1100 FAX (866) 988-3	: 309377 - [AutoG : 02/02/20 : Bottle On			# of Sample Tests	1 TPH 8015 Diesel and Motor OIL (8015 Jet Fuel 8_C		1 @504MOD TB C, 8015 Gas_CT	Comments	VEA WELLS PUMPS 182 (200) (801-20	SAMPLER: Four 1 LITER AMBER GLASS BOTTLES	SHIPPING: Travel Blanks - TBAMTBE, VOASDWA Label Cooler on TOP and right below bol	SM: Be sure to coordinate Follow-up at cetone - follow-ups need to use EPA 62		

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RECORD	will determine whether to proceed with analysis or not. Yes / No	zen 📈 Thawed N/A		ollection, within 8 hours)	·C) (Cont.Factor ·C) (Final = ·C)	the second se	Expiration DateResults:	(see below): [Itional bottles) is using 40 ml vials, International clients: Test Samp ID Bottle # Nonel<6 >6mm Test mm	DATE TIME	04.27.2022 421110 12:11	DATE TME	
INTERNAL CHAIN OF CUSTODY RECORD	SAMPLE TEMP RECEIVED: 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 SAMPLES rector -0.5 °C) (Final = 2.8 °C)	CONDITION OF ICE: Frozen Partially Frozen	UPS / DHL / Area Fast / Top Line / Uther:	0°C if received on ice the same day as sample co	ole collection) .c) (Fhalc)	e between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	Expiration Date: Results	No Samples with Headspace: Samples with Headspace (see below): Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) tee concerns: Methods 615.4, HAA(6251, 552, 504, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Mmm Test	mpling arrors):	Euro		
وية eurofins INTERNA	LA CYAA (Observation= 3.1 °C) (0	o Ice	METHOD OF SHIPMENT: Pick-Up / Walk-In// FedEx / UPS / DHL / Area Fast / Top Lin 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, hou fout of tamperature ange for both Chemistry and Microbiology samples and lemperature does not confirm, then meseure the tamperature of each quadrant and record each lemperature of the used of each quadrant and record each lemperature of the does not condition.		5) pH Check. Manufacturer: Lot Number: 6) Chlorine check. Manufacturer: Sansafe. Lot No.:	7) VOA and Radon No Samples with Headspace: Samples with Headspace (see below): 7) Headspace: Headspace Samples with Headspace (see below): 8 Exempt from headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) 8 Exempt from headspace concerns: Methods 515.4, HAA(8251,552), 505, 504, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi vials, International clients: 8 Bottle # Nonel<5	Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	RECEIVED BY: BIONATURE, THE PRINT PR	SIGNAURE PRINT NAME	

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AL 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 Sorr.Factor 0.3 °C) (Final = 3.4 °C)	Partially Frozen Thawed N/A er: as sample collection, within 8 hours)	2 = (Observation=	type: 0 - 14 or
INTERN 3.7 °0 (0	E OF ICE: Real	.c) .c) 24 hrs of	Vumber:pH strip space:Expiration Dat se additional VOC and Ra se additional VOC and Ra se additional VOC and Ra set s32LcMs add6 >6mm Tast madd6 >6mm Tast
EEA FOLDER Eaton Analytical EEA FOLDER WINDER WINDER WITCH	TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Fro METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top 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	4 Dioxin (1613 or 2,3,7,8 TCDD): must be build	5) pH Check. Manufacturer: Lot No.: 6) Chlorine check. Manufacturer: Sansafe. Lot No.: 7) VOA and Radon No Samples with Head Headspace: Headspace Documentation (us Exempt from headspace concerns: Methods 615.4, HA4(18261 Bottle # Nonel<5 > 5mm Teat Samp ID Bottle # Nonel<5 > 5mm Teat Exempt from headspace (i.e. poter Note Sample IDs which have dissimilar headspace (i.e. poter signATURE RECEIVED BY: COC BY: SAMPLES CHECKED AGAINST COC BY: SA

QA FO-FRM5504 (9.28.21) Ver 9

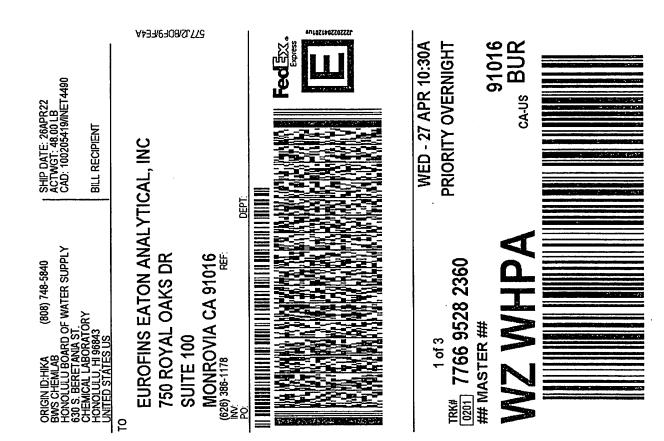
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1 analysis or not.		N/A		(S		(nal =)		Results:	International cilents: Samp ID Bottle # None/<6 >6mm Test		TIME	12:11	TIME	
RECORD errnine whether to proceed with / No		en Thawed _		lection, within 8 hou		. C) (Corr.Factor	ion)	Expiration Date	tional bottles) using 40 mi vials, intern Tast		DATE	2202.FZ.HQ	DATE	
AL 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 = $\frac{4}{.0}$ °C)	E: Frozen Partially Frozen	collection)	i ice the same day as sample col	llection)	-c) [Final	ed after 24 hrs of sample collect	pH strip type: 0 - 14 or	Samples with Headspace (see below): and Radon Internal COFC for additional bottles) 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, Samp ID Bottle # Non8/<6 >6mm Test		COMPANYITITLE	Eurofins Eaton Analytical	COMPANYITITLE	Eurofins Eaton Analylical
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 SAMPLES REC'D DAY OF COLLECTION? Yes / No	= 4.5 °C) (corr.Factor 0.3	Ice CONDITION OF ICE: Frozen Pai FedEx UPS / DHL / Area Fast / Top Line / Other:	P) (if received after 24 hrs of sample	t frozen (can be ≿10°C lf received on	(If received after 2 hours of sample collection)	1 = (Cotaervalion=	between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	lumber:Expin	No Samples with Headspace: Headspace Documentation (use additional VOC and tee concerns: Methods 615.4, HAA(6321,525), 505, SPME, @CH, 532LC Test Samp ID Bottle # None/<6 >6m Test		ace (i.e. potential sampling errors):	D. REITWER	PRINT NAME	
eaten Analytical Eaten Analytical Eaten Analytical Eater Number	IR Gun ID = $644A$ (Observation=	TYPE OF ICE: Real Synthetic No Ice METHOD OF SHIPMENT: Pick-Up / Walk-In Fe	Compilance Acceptance Criteria: 1) Chemistry: >0, ج 8°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 Chernisity 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	5) pH Check. Manufacturer: Lot N 6) Chlorine check. Manufacturer: Sansafe. Lot No.:	7) VOA and Radon No Samples with Headspace: Samples with Headspace (see below): Headspace: Headspace: Headspace (see below): Headspace: Headspace (see below): Exempt from headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 615.4, HAA(8251,552), 505, 504, 5356, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Monel<6		ave dissimilar headsp ~.		SIGNATURE	SAMPLES CHECKED AGAINST COC BY:

Page Z of S

QA FO-FRM5504 (9.28.21) Ver 9



:ledsl sint gnitning this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in

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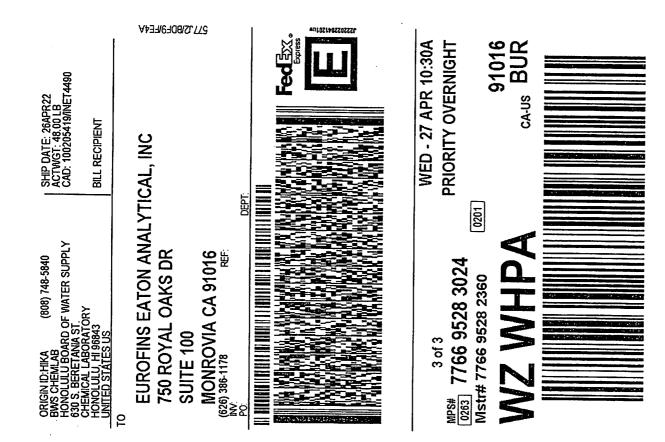
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

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2. Fold the printing along the horizontal line.

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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Bedinorial building the system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, altorine's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the precions whether direct, incidental, consequential, or special is limited to the greater of \$100 or the precions metals, negotiable instruments and other forms of asmage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the precions metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015_RED-HILL (2022) - EMAX

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

Folder Comments

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



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015_RED-HILL (2022) - EMAX

E G F	Honolulu Board of Wa Erwin Kawata 630 South Beretania S Public Service Bldg." R Honolulu, HI 96843	treet			Samples Rec 04/27/2022 13		
Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL	

SUMMARY OF POSITIVE DATA ONLY

Rounding on totals after summation. (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight

differences in final result than the component analyses.

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

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

Eaton Analytical

🛟 eurofins

Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015_RED-HILL (2022) - EMAX

Samples Received on: 04/27/2022 1211

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
AIEA WE	ELLS P1 (26	0)-331-003-\	NL102 (2022042	<u>70910)</u>		Sam	pled on 04/25	/2022 103	4
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	irbons				
04/28/22	04/28/22 21:14			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
05/02/22	05/03/22 16:07			(SW 8015B)	TPH Diesel	ND	mg/L	0.024	1
05/02/22	05/03/22 16:07			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.047	1
TB: AIEA	WELLS P1	l (260)-331-0	003-WL102 (2022	<u>204270911)</u>		Sam	pled on 04/25	/2022 103	4
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	irbons				
04/28/22	04/28/22 21:50			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015_RED-HILL (2022) - EMAX

Honolulu Board of Water Supply Erwin Kawata	Samples Received on:
630 South Beretania Street	04/27/2022 1211
Public Service Bldg." Room 308	
Honolulu, HI 96843	

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL	

SUMMARY OF POSITIVE DATA ONLY



LABORATORIES, INC.

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

Date: 05-12-2022 EMAX Batch No.: 22D274

Attn: Jackie Contreras

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

Subject: Laboratory Report Project: 1001682

Enclosed is the Laboratory report for samples received on 04/28/22. The data reported relate only to samples listed below :

Sample ID	Control # Col Date	Matrix	Analysis
202204270910	D274-01 04/25/22	WATER	TPH GASOLINE
			TPH DIESEL & MOTOR OIL
202204270911	D274-02 04/25/22	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Pang Laboratory Director

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

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

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

🐝 eurofins	15 15 15 15 15 15 15 15 15 15 15 15 15 1	*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Ship To: 'EMAX Labora 3051 Fujita St. Torrance, CA	Ship To: `EMAX Laboratories, Inc. 3051 Fujita St. Torrance, CA 90505	Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature. Reports: Jackie Contreating Administrator Eurofins Eaton Analytical LLIC 750 Royal Oaxs Drive, Suite 100, Monrovia, CA \$1016 Phone (525) 386-1185 Fax (625) 388-1122 Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605
Phone: 3' Folder #: 1001682	Phone: 310-618-8889 Fax: 310-618-0818 ar #: Report Due: 582 05/04/2022	
Sample ID 202204270910	Cilent Sample AIEA WELLS P1	Sample Date & Time Matrix Clip Code 04/25/22 1034 DW
Sample type:	Sample E	rt: Facility ID: Sample Point ID: Static ID:
Method SW 8015B	Prep Method An EPA 5030C (SU	Analysis Requested (SUB)Gas Fraction Hydrocarbons
SW 8015B		TPH 8015 Diesel and Motor Oil
ν Sample ID 202204270911	Cilent Sample ID for reference onl TB: AIEA WELLS P1 (260)-331-003-ML102	ence or/ -003-WL102 Sample Date & Time Matrix Clip Code PWSID 04/25/22 1034 DW JLS
Sample type:	Sample Event:	nt: Facility ID: Sample Point ID: Static ID:
Method	Prep Method An	Analysis Requested
SW 8015B		(SUB)Gas Fraction Hydrocarbons
Relinquished by Received by Base 18 of Base 18 of	X Sample Control X A Sample Control Sample Control	Date $\frac{1/33}{1787}$ Time $1/35$ NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS Date $\frac{1/27}{1100}$ An Acknowledgement of Receipt Is requested to attn: Jackie Contreras Date Time $100/1.3$ Date Time $(20/1.3)$
	ID: 22D27450 Royal Oaks Drive, St	Page 3 of 3 16 Tel (626) 386-1100 Fax (866) 988-3757 ww



REFERENCE: EMAX-SM02 Rev. 12 SAMPLE RECEIPT FORM 1

Type of D			Airbill / Track	king Number	ECN 22 D 274	
Fedex UPS GSO		-			Recipient Alan Pan	
EMAX Courier 🛱 Client Del	плета	<u></u>	· -		Date 04/20/22	Time 11:35
COC INSPECTION	<u>`</u>			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	······
Client Name	Client PM/FC		·□ Sampler Name	Sampling Date/Time	Sample ID	🖓 Matrix
1 Address	🗘 Tel # / Fax #		Courier Signature	Analysis Required	Preservative (if any)	j∕i tat
afety Issues (if any)	High concentrations ex	pected	□ From Superfund Site	Rad screening required		<i>(</i>
Note:						
				s		
PACKAGING INSPECTI	ON			·	· · · · · · · · · · · · · · · · · · ·	
Container	D Cooter		□ Box	🗆 Other		
Condition	Custody Seal		🗇 Intact	D Damaged		
Packaging Correction	Bubble Pack		□ Styrofoam		Sufficient	
Temperatures factor to, 2	$\frac{1}{\nu}$ Cooler 1 $\frac{1.0}{1.\nu}$ °C		ler 21.9/2.1 °C	Cooler 3°C		□ Cooler 5 °(
Cool, ≤6 "C but not frozen)	$\Box \text{ Cooler 6} ^{\circ}C$					
Thermometer:	(A) S/N 2105 83479		er 7°C	Cooler 8°C	Cooler 9°C	\Box Cooler 10
				C-S/N210271399	D - S/N	-
comments: Temperature is o	ut of range. PW was inform	ied HMM.	EDIATELY.			
Note:			***	· · · · · · · · · · · · · · · · · · ·		
				· · · · · · · · · · · · · · · · · · ·		P2
DISCREPANCIES	······································					· · ·
LabSampleID	LabSampleContainerID	Code	ClientSample L	abel ID / Information	Corrective	Action
	1-9	DIU			18	
ν	10,11	D7	two dutes on 1	aber 2/2/22	\overline{D} 1	
			and 04/25/2		<u> </u>	
			0.110,0110,310	- · ·		
			· · · · · · · · · · · · · · · · · · ·			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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	· · · · · · · · · · · · · · · · · · ·					
					\mathcal{N}_{-}	AP 11
D pH holding time requirement	nt for water samples is 15 n	nins. Wa	ater samples for pH anal	ysis are received beyond 15	ninutes from sampling time.	954/29
NOTES/OBSERVATIONS	:					
SAMPLE MATRIX IS DRINKING	and a standard a					
		×				
·	· · · · · · · · · · · · · · · · · · ·			a an an an and a state for the second s		
····		· · · ·		· · · · · · · · · · · · · · · · · · ·	· .	······
		· .				
LEGEND:					Continue to next pa	ge.
Code Description-Sample Man	agement	Code	Description-Sample Man	agement	Code Description-Sample Mana	
D1 Analysis is not indicated in	י	D13	Out of Holding Time		R1 Proceed as indicated in CO	C 🗆 Label
D2 Analysis mismatch COC v	s label	D14	Bubble is >6mm		R2 Refer to attached instruction	
D3 Sample ID mismatch COC	vs label	D15 1	No trip blank in cooler		R3 Cancel the analysis	
D4 Sample ID is not indicated	in	D16	Preservation not indicated	in	R4 Use vial with smallest bubble	first
D5 Container -[improper] [leal	king] [broken]	D17 1	Preservation mismatch CO)C vs label	R5 Log-in with latest sampling da	ite and time+1 min
D6 Date/Time is not indicated	in	D18	Insufficient chemical prese	ervative	R6 Adjust pH as necessary	
D7) Date Time mismatch COC		D19 1	Insufficient Sample		R7 Filter and preserved as necessa	any AT 1
D8 Sample listed in COC is no			No filtration info for dissol	lved analysis	RS Thomas	Viont
D9 Sample received is not liste			No sample for moisture deter		R9 R9	
D10 No initial/date on correctio	()	D22			R10	
D11 Container count mismatch		D22 D23				<u> </u>
D12 Container size mismatch C		D25_ D24			•	· · · · · · · · · · · · · · · · · · ·
REVIEWS:	JUCELYNE 1/2 .	1		- <u>/ </u>	R12	
Sample Labeling	Whi-Ramus / Din	1	opr	$\left l_{e_1} \right $		DK
		pe	SRI		PM	
Date	e 04/28/22 / 4/28	in	Dat	e <u> </u>	Date	4/29/2
				1 *		1/ 1/
REPORT ID: 22D2	274 Е	MAX La	boratories, Inc. 3051 Fu	ijita St., Torrance, CA 90505	Pa	ge 3 of 23

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Page 3 of 23 Page 19 of 39 pages

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

1001682

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

SDG#: 22D274

REPORT ID: 22D274

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1001682

SDG : 22D274

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

A total of two(2) water samples were received on 04/28/22 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. VG39D15B - 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. VG39D15L/VG39D15C 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 D272-01M/D272-01S. 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.

	: EUROFINS EATON ANALYTICAL • 1001682	ANALYTICAL	Client : EUROFINS EATON ANALYTICAL						SDG NO. : 22D274 Instrument ID : GCT039	: 22D274 : GCT039
					WATER	ER				
Cl ient		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTīme	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 3 1 1 1 1	1 1 1 1 1 1 1		
MBLK1W		VG39D15B	٢	NA	04/28/2215:42	04/28/2215:42	ED28005A	ED28004A	22VG39D15 Method Blank	d Blank
LCS1W		VG39D15L	£	NA	04/28/2216:19	04/28/2216:19	ED 28006A	ED28004A	22VG39D15 Lab C	22VG39D15 Lab Control Sample (LCS)
LCD1W		VG39D15C	ſ	NA	04/28/2216:56	04/28/2216:56	ED28007A	ED28004A	22VG39D15 LCS Duplicate	uplicate
202204270910	10	D274-01	ę	NA	04/28/2221:14	04/28/2221:14	ED28014A	ED28004A	22VG39D15 Field Sample	Sample
202204270911	11	D274-02	~	NA	04/28/2221:50	04/28/2221:50	ED28015A	ED28004A	22VG39D15 Field Sample	Sample

FN - Filename % Moist - Percent Moisture

REPORT ID: 22D274

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SAMPLE RESULTS

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

Client : EUROFINS EATO	ANALYTICAL	Date	Collected:	04/25/22 10:34
Project : 1001682		Date	e Received:	04/28/22
Batch No. : 22D274		Date	Extracted:	04/28/22 21:14
Sample ID : 202204270910		Date	Analyzed:	04/28/22 21:14
Lab Samp ID: D274-01		Diluti	ion Factor:	1
Lab File ID: ED28014A			Matrix:	WATER
Ext Btch ID: 22VG39D15		0	6 Moisture:	NA
Calib. Ref.: ED28004A		Inst	trument ID:	39
		==========		
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0336	0.0400	84	60-140

Notes:

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

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

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

		===========	===================	
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	04/25/22 10:34
Project : 1001682		Date	e Received:	04/28/22
Batch No. : 22D274		Date	Extracted:	04/28/22 21:50
Sample ID : 202204270911		Date	e Analyzed:	04/28/22 21:50
Lab Samp ID: D274-02		Dilut	ion Factor:	1
Lab File ID: ED28015A			Matrix:	WATER
Ext Btch ID: 22VG39D15		0 /	% Moisture:	NA
Calib. Ref.: ED28004A		Inst	trument ID:	39
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0340	0.0400	85	60-140
=======================================		=============	=======================================	

Notes:

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

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

REPORT ID: 22D274

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QC SUMMARIES

REPORT ID: 22D274

Page 11 of 23 Page 27 of 39 pages

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

	=======================================		================	
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	04/28/22 15:42
Project : 1001682		Date	e Received:	04/28/22
Batch No. : 22D274		Date	Extracted:	04/28/22 15:42
Sample ID : MBLK1W		Date	e Analyzed:	04/28/22 15:42
Lab Samp ID: VG39D15B		Dilut	ion Factor:	1
Lab File ID: ED28005A			Matrix:	WATER
Ext Btch ID: 22VG39D15		a /	6 Moisture:	NA
Calib. Ref.: ED28004A		Inst	rument ID:	39
================================				
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0360	0.0400	90	60-140
=======================================				

Notes:

NOLC3.					
Parameter		H۰	C Range		
Gasoline		Cć	5-C10		
Reported ND	at	RL	quantitated pe	er pattern	recognition.

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

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ED28004A

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CLIENT PROJECT	: EUROFINS EATON ANALYTI : 1001682	CAL		
BATCH NO.	: 22D274			
METHOD	: 5030B/8015B			
MATRIX	: WATER		% MOISTURE:NA	
DILUTION FAC	TOR: 1	1	1	
SAMPLE ID	: MBLK1W	LCS1W	LCD1W	
LAB SAMPLE I	D : VG39D15B	VG39D15L	VG39D15C	
LAB FILE ID	: ED28005A	ED28006A	ED28007A	
DATE PREPARE	D : 04/28/22 15:42	04/28/22 16:19	04/28/22 16:56	
DATE ANALYZE	D : 04/28/22 15:42	04/28/22 16:19	04/28/22 16:56	
PREP BATCH	: 22VG39D15	22VG39D15	22VG39D15	

ACCESSION:

CALIBRATION REF: ED28004A

				(mg/L)	(mg/l)	(%)	(%)	(%)	(%)
Gasoline	ND 0.500	0.515	103	0,500	0.512	102	1	60-130	30
SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		 QCLimit (%)	
Bromofluorobenzene	0.0400	0.0465	116	0.0400	0.0457	114		70-130	

ED28004A

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

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CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 1001681
BATCH NO.	: 22D272
METHOD	: 5030B/8015B

MATRIX : W	JATER					% MOISTURE	:NA
DILUTION FACTOR: "	1		1			1	
SAMPLE ID : 2	202204270906		20220427090	D6MS		2022042709	06MSD
LAB SAMPLE ID : D	0272-01		D272-01M			D272-01s	
LAB FILE ID : E	ED28008A		ED28009A			ED28010A	
DATE PREPARED : (04/28/22 17:33		04/28/22 18	3:10		04/28/22 1	8:46
DATE ANALYZED : (04/28/22 17:33		04/28/22 18	3:10		04/28/22 1	8:46
PREP BATCH : 2	22VG39D15		22VG39D15			22VG39D15	
CALIBRATION REF: E	ED28004A		ED28004A			ED28004A	
ACCESSION:							
	PSPocul t	SpikoAmt	MSPocul +	MSRoc	SpikoAmt	MSDPocult	MSDBO

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.518	104	0.500	0.510	102	2	50-130	30
				========	==========	==========		=======	=========	
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0447	112	0.0400	0.0453	113		60-140	
				=======	=======================================		==========	========	===========	========

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

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LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

1001682

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22D274

REPORT ID: 22D274

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1001682

SDG : 22D274

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 04/28/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time The sample was analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSE001WB - 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. DSE001WL/DSE001WC 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. Diesel was within MS QC limits in 22D272-01M/22D272-01S. Refer to Matrix QC summary form for details.

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

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

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	EXTRACTION
	ВΥ
LAB CHRONICLE	TOTAL PETROLEUM HYDROCARBONS

Client Project	<pre>client : EUROFINS EATON ANALYTICAL Project : 1001682</pre>	ANALYTICAL							SDG NO. Instrument ID	SDG NO. : 22D274 Instrument ID : D5
					WATER					
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	Dateīīme	Data FN	Data FN	Batch	Notes
		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			
MBLK1W		DSE001WB	~	NA	05/03/2213:58	05/02/2211:00	LE03008A	LE03004A	22DSE001W	22DSE001W Method Blank
LCS1W		DSE001ML	~	NA	05/03/2214:16	05/02/2211:00	LE03009A	LE03004A	22DSE001W	22DSE001W Lab Control Sample (LCS)
LCD1W		DSE001WC	-	NA	05/03/2214:35	05/02/2211:00	LE03010A	LE03004A	22DSE001W	22DSE001W LCS Duplicate
202204270910	910	D274-01	~	NA	05/03/2216:07	05/02/2211:00	LE03015A	LE03004A	22DSE001W	22DSE001W Field Sample

FN - Filename % Moist - Percent Moisture

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SAMPLE RESULTS

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METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	04/25/22 10:34
Project : 1001682		Date	e Received:	04/28/22
Batch No. : 22D274		Date	Extracted:	05/02/22 11:00
Sample ID : 202204270910		Date	e Analyzed:	05/03/22 16:07
Lab Samp ID: 22D274-01		Dilut	ion Factor:	1
Lab File ID: LE03015A			Matrix:	WATER
Ext Btch ID: 22DSE001W			% Moisture:	NA
Calib. Ref.: LE03004A		Ins	trument ID:	D5
	============	===================	===============	
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
Diesel	ND	0.024	0.012	
Motor Oil	ND	0.047	0.024	
SURROGATE PARAMETERS	RESULT	SPK AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.397	0.470	84	60~130
Hexacosane	0.110	0.118	94	60-130

Notes:

Parameter	H-C Range	
Diesel	C10-C24	
Motor Oil	C24-C36	
Reported ND	at RL quantitated per pattern recognition	

Detection limits are reported relative to sample result significant figures.Sample Amount : 1060mlFinal Volume : 5mlPrepared by : POretoAnalyzed by : SDeeso

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QC SUMMARIES

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REPORT ID: 22D274

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METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

		=======================================	=============	
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	05/02/22 11:00
Project : 1001682		Date	e Received:	05/02/22
Batch No. : 22D274		Date	Extracted:	05/02/22 11:00
Sample ID : MBLK1W		Date	Analyzed:	05/03/22 13:58
Lab Samp ID: DSE001WB			ion Factor:	
Lab File ID: LE03008A			Matrix:	WATER
Ext Btch ID: 22DSE001W		a /	6 Moisture:	NA
Calib. Ref.: LE03004A		Inst	trument ID:	D5
	=======================================	=======================================		*========
	RESULTS	RL	MDL	
PARAMETERS	(mg/l)	(mg/L)	(mg/L)	
				-
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.374	0.500	75	60-130
Hexacosane	0.0920	0.125	74	60-130
		=======================================		

Notes:

Parameter	H-C Range
Diesel	c10-c24
Motor Oil	C24-C36
Reported ND a	t RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount : 1000mlFinal Volume : 5mlPrepared by : POretoAnalyzed by : SDeeso

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Bromobenzene Hexacosane		0.500 0.125	0.432 0.107	86 86		0.476 0.114	95 91		60-130 60-130	
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Diesel	ND	2.50	2.01	80	2.50	2.12	85	5	50-130	30
PARAMETERS	MBResult (mg/L)			LCSRec (%)		LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
ACCESSION:										
LAB FILE ID : LE03008A LE030 DATE PREPARED : 05/02/22 11:00 05/02 DATE ANALYZED : 05/03/22 13:58 05/02 PREP BATCH : 22DSE001W 22DSE			% MOISTURE:NA 1 SS1W LCD1W SE001WL DSE001WC :03009A LE03010A :/02/22 11:00 :/03/22 14:16 :05/03/22 14:35 :205E001W 22DSE001W :03004A LE03004A							
PROJECT : BATCH NO. :	: EUROFINS EATON ANA : 1001682 : 22D274 : 3520C/8015B	LYTICAL								

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

CLIENT	: EUROFINS EATON ANALYTICAL					
PROJECT	: 1001681					
BATCH NO.	: 220272					
METHOD	: 3520C/8015B					

MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 2022042 LAB SAMPLE ID : 220272- LAB FILE ID : LE03011 DATE PREPARED : 05/03/2 DATE ANALYZED : 05/03/2 PREP BATCH : 22DSE00 CALIBRATION REF: LE03004 ACCESSION:	1 202204270906MS 22D272-01M LE03012A 05/02/22 11:00 05/03/22 15:12 22DSE001W LE03004A			% MOISTURE:NA 1 202204270906MSD 22D272-01S LE03013A 05/02/22 11:00 05/03/22 15:30 22DSE001W LE03004A						
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.33	1.90	82	2.38	2.14	90	12	50-130	30
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	========	QCLimit (%)	
Bromobenzene	0,465	0.382	82	0.475	0.442	93		60-130		

0.104

0.116

89

0.119

0.114

96

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

REPORT ID: 22D274

Hexacosane

60-130

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