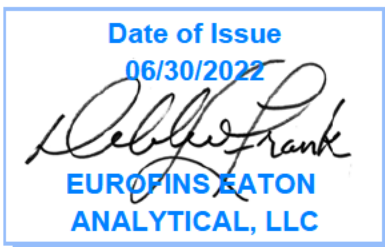


750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

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



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 1004991
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.

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 17025:2017 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 Water *	Waste Water	Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x	Gross Alpha coprecipitation	SM 7110 C	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x		Hardness	SM 2340 B	x	x
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x	Hexavalent Chromium	EPA 218.6,	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x	Hexavalent Chromium	EPA 218.7,	x	
Heterotrophic Bacteria	SM 9215 B	x		Hexavalent Chromium	SM 3500-Cr B		x
Legionella	Legiolert®	x		Inorganic Anions and DBPs	EPA 300.0	x	x
Pseudomonas aeruginosa	Idexx Pseudalart	x		Norganic Anions and DBPs	EPA 300.1	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x	Kjeldahl Nitrogen	EPA 351.2		x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x	Metals	EPA 200.7, EPA200.8	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x		Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Total Microcystins and Nodularins	EPA 546	X		Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Yeast and Mold	SM 9610	x		Odor	SM2150B	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x		Organohalide Pesticides and PCB	EPA 505	x	
1,4-Dioxane	EPA 522	x		Ortho Phosphate	SM 4500P E	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x		Oxyhalides Disinfect ion Byproducts	EPA 317.0	x	
Acrylamide	+ LCMS 2440)	x		Perchlorate	EPA 331.0	x	
Algal Toxins/Microcys in	+ LCMS 3570	x		Perchlorate (Low and High Levels)	EPA 314.0	x	
Alkalinity	SM 2320B	x	x	Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
Ammonia	EPA 350.1, SM 4500-NH3 H		x	PPCP and EDC	+ LCMS-2443	x	
Asbestos	EPA 100.2	x	x	pH	EPA 150.1 SM 4500-H+ B	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x	Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
BOD/CBOD	SM 5210 B		x	Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Bromate	+ LCMS- 2447	x		Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Carbonate as CO3	SM 2330 B	x	x	Radon-222	SM 7500RN	x	
Carbonyls	EPA 556	x	x	Residue (Filterable)	SM 2540C	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x	Residue (Non-Filterable)	SM 2540D		x
Chlorinated Acids	EPA 515.4	x		Residue (Total)	SM 2540B		x
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x		Residue (Volatile)	EPA 160.4		x
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x		Semi-Volatile Compounds	EPA 525.2	x	
Color	SM2120B	x		Silica	SM 4500-SiO2 C	x	x
Conductivity	EPA 120.1, SM 2510B	x	x	Sulfide	SM 4500-S D		x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x		Sulfite	SM 4500-SO3 B	x	x
Cyanide (Amenable)	SM 4500-CN G	x	x	Surfactants	SM 5540C	x	x
Cyanide (Free)	SM 4500CN F	x	x	Taste and Odor	SM 6040 E	x	
Cyanide (Total)	EPA 335.4	x	x	Total Organic Carbon	SM 5310 C	x	x
Cyanogen Chloride (Screen)	+ 335 Mod (WC-24467)	x		Total Phenols	EPA 420.1		x
Diquat and Paraquat	EPA 549.2	x		Total Phenols	EPA 420.4	x	x
DBP and HAA	SM 6251 B	x		Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Dissolved Organic Carbon	SM 5310 C	x		Turbidity	EPA 180.1	x	x
Dissolved Oxygen	SM 4500-O G		x	Uranium by ICP/MS	EPA 200.8	x	
EDB/DCBP/TCP	EPA 504.1	x		UV 254 Organic Constituents	SM 5910B	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x		VOCs	EPA 524.2	x	
EDTA and NTA	+ WC-2454	x		VOCs	+ (GCMS 2412) by EPA 524.2 modified	x	
Endothall	EPA 548.1, +(LCMS-2445)	x					
Fluoride	SM 4500F C	x	x				
Glyphosate	EPA 547	x					
Glyphosate and AMPA	+ LCMS-3618	x					
Gross Alpha and Gross Beta	EPA 900.0	x	x				

(*) 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 #: 1004991
Project: RED-HILL
Sample Group: Weekly TPH-8015_RED-HILL (2022)
- EMAX
Project Manager: Debbie L Frank
Phone: (626) 386-1149
PO #: C20525101 exp 05312023

The following samples were received from you on **May 19, 2022 at 1000**. 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
<u>202205210043</u>	HALAWA WELLS P2 (331-024-WL064)	05/17/2022 1008
	@525PLUS C PLUS TICS (SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil	
<u>202205210044</u>	TB: HALAWA WELLS P2 (331-024-WL064)	05/17/2022 1008
	(UB)Gas Fraction Hydrocarbons	

Test Description

@525PLUS C PLUS TICS -- Semivolatiles by GCMS



Eaton Analytical

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: *Jungy*

Colton / No. California / Arizona
 Monrovia

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

SAMPLE TEMP RECEIVED AT:
 3.1 °C (Compliance: 4 ± 2 °C)
 Partially Frozen / Thawed

CONDITION OF BLUE ICE: Frozen / Wet Ice

METHOD OF SHIPMENT: Pick-Up / Walk-In / DHL / UPS / FedEx / Area Fast / Top Line / Other:

TO BE COMPLETED BY SAMPLER:

(check for yes)

(check for yes)

COMPANY/AGENCY NAME: BWS HONOLULU		PROJECT CODE: RED HILL	COMPLIANCE SAMPLES <input type="checkbox"/>		NON-COMPLIANCE SAMPLES <input checked="" type="checkbox"/>	
EEA CLIENT CODE:		SAMPLE GROUP: Weekly TPH-8015_RED-HILL (2022)	- Requires state forms		REGULATION INVOLVED:	
TAT requested: rush by adv notice only		STD <input type="checkbox"/> 1 wk <input checked="" type="checkbox"/> 3 day <input type="checkbox"/> 2 day <input type="checkbox"/> 1 day	Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA, ...)		SEE ATTACHED BOTTLE ORDER FOR ANALYSES <input checked="" type="checkbox"/> (check for yes), OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA
05/17/22	1008	Halawa Wells P2	HI0000331-024	CFW		
* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge						
SAMPLER COMMENTS		PRINT NAME L. Bailey		COMPANY/TITLE Honolulu Board of Water Supply		DATE May 17, 2022
		L. Bailey		Honolulu Board of Water Supply		1200
		Chuck Brewer		Honolulu Board of Water Supply		5.19.22
						1000

SAMPLED BY:	RELINQUISHED BY:	RECEIVED BY:	RECEIVED BY:

INTERNAL CHAIN OF CUSTODY RECORD

IEA Folder Number: 165441

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

IR Gun ID = 401 (Observation = 3.3 °C) (Corr.Factor = -0.2 °C) (Final = 3.1 °C)

TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: FedEx

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrant

1 = (Observation = °C) (Corr.Factor = °C) (Final = °C)	2 = (Observation = °C) (Corr.Factor = °C) (Final = °C)
3 = (Observation = °C) (Corr.Factor = °C) (Final = °C)	4 = (Observation = °C) (Corr.Factor = °C) (Final = °C)

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____

6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

7) VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
 Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: None/<6

Samp ID	Bottle #	None/<6	>6mm	Test	Samp ID	Bottle #	None/<6	>6mm	Test

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

RECEIVED BY: Chris Beck SIGNATURE

PRINT NAME: Chris Beck

COMPANY/TITLE: Eurofins Eaton Analytical

DATE: 5-19-22

TIME: 1000

SAMPLES CHECKED AGAINST COC BY: _____ SIGNATURE

PRINT NAME: _____

COMPANY/TITLE: Eurofins Eaton Analytical

DATE: _____

TIME: _____

ORIGIN ID: HIKA (808) 748-5840
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 18MAY22
ACT WGT: 62.00 LB
CAD: 100205419/IN/NET4490

BILL RECIPIENT

TO

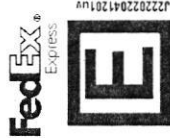
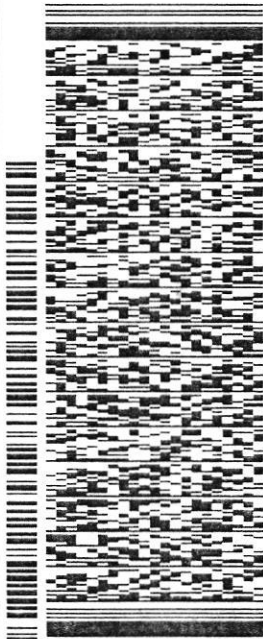
EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016

(626) 386-1178

INV PO REF

DEPT

577561B06/FE4A



J22202041201uv

THU - 19 MAY 10:30A

2 of 4

PRIORITY OVERNIGHT

MPS# 7768 9661 1808

0263

Mstr# 7768 9661 1510

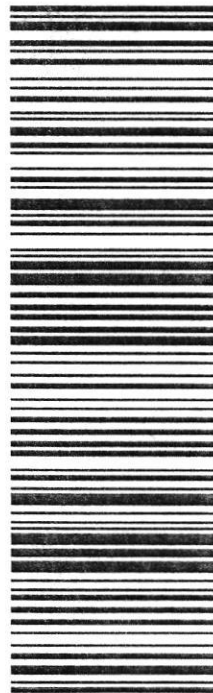
0201

91016

WZ WHPA

CA-US

BUR



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Eaton Analytical

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

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

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

Created Date & Time: 4/27/2022 4:16:02PM

Note: Sampler Please return this paper with your samples

Kit #: 318566

Client ID: HONOLULU

Created By: - [AutoGenerated]

Deliver By: 05/11/2022

STG: Bottle Orders

Ice Type: W

Project Code: RED-HILL Bottle Orders

Group Name: Weekly TPH-8015_RED-HILL (2022) - EMAX

PO#/JOB#: C20525101 exp 05312023

Description: Every 1 week on Wed

Ship Sample Kits to
Honolulu Board of Water Supply
630 South Beretania Street
Chemistry Lab
Honolulu, HI 96843
Attn: Ron Fenstermacher
Phone: 808-748-5841
Fax: 808-550-5572

Send Report to
Honolulu Board of Water Supply
630 South Beretania Street
Public Service Bldg. Room 308
Honolulu, HI 96843
Attn: Erwin Kawata
Phone: 808-748-5091
Fax: 808-550-5018

Billing Address
Honolulu Board of Water Supply
630 South Beretania Street
Public Service Bldg. Room 308
Honolulu, HI 96843
Attn: Erwin Kawata
Phone: 808-748-5091
Fax: 808-550-5018

# of Sample	Tests	Bottle Qty - Type [preservative information]	Total	UN DOT #
6	TPH 8015 Diesel and Motor Oil_C	3 - 1L amber glass [1 ml Thio 8%]	18	
5	@525PLUS C PLUS TICS	2 - 1L amber glass [45mg Sulfite xls+1 vial 2 ml 6N HCl]	10	UN1789
1	@525PLUS C PLUS TICS	3 - 1L amber glass [45mg Sulfite xls+1 vial 2 ml 6N HCl]	3	UN1789
6	8015 Gas_C	4 - 40ml amber glass vial [1 drop Thio (8%)]	24	
6	8015 Gas_C TB	2 - 40ml amber glass vial [1 drop Thio (8%) + H2O]	12	
Sum Tests: 24			Sum Bottles: 67	
Comments				
WEEKLY SAMPLING				

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

Laboratory Comments

Report: 1004991
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, Motor Oil are submitted by Emax Laboratories

ND reporting (subcontract lab reports)

MDL is listed due to report format restrictions; it is not used in reporting. Analytical results reported as ND, are ND at the RL.

(525.2 - SVOC) HB, N1

Sample aliquot was not stored properly (inadvertently sent with the 8015's to the 8015 lab).

Notification and resample requested 06/10/22.525 data is Not Reported, NR. Kit initiated 6/14/22. deb 061422

Flags Legend:

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

N1 - See case narrative.



Eaton Analytical

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

Laboratory Hits

Report: 1004991
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

Samples Received on:
05/19/2022 1000

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
----------	---------	-----------	--------	----------	-------	-----

Tel: (626) 386-1100
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 1 800 566 LABS (1 800 566 5227)

Report: 1004991
 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

Samples Received on:
 05/19/2022 1000

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
HALAWA WELLS P2 (331-024-WL064) (202205210043)					Sampled on 05/17/2022 1008				
EPA 525.2 - Semivolatiles by GCMS									
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	1-Methylnaphthalene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	2,4-DDD	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	2,4-DDE	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	2,4-DDT	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	2,4-Dinitrotoluene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	2,6-Dinitrotoluene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	2-methylnaphthalene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	4,4-DDD	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	4,4-DDE	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	4,4-DDT	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Acenaphthene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Acenaphthylene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Acetochlor	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Alachlor	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Alpha-BHC	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	alpha-Chlordane	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Anthracene	NR (HB,N1)	ug/L	0.020	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Atrazine	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Benz(a)Anthracene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Benzo(a)pyrene	NR (HB,N1)	ug/L	0.020	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Benzo(b)Fluoranthene	NR (HB,N1)	ug/L	0.020	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Benzo(g,h,i)Perylene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Benzo(k)Fluoranthene	NR (HB,N1)	ug/L	0.020	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Beta-BHC	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Bromacil	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Butachlor	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Butylbenzylphthalate	NR (HB,N1)	ug/L	0.50	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Caffeine by method 525mod	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Chlorobenzilate	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Chloroneb	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Chlorpyrifos (Dursban)	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Chrysene	NR (HB,N1)	ug/L	0.020	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Delta-BHC	NR (HB,N1)	ug/L	0.10	1

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.

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

Laboratory Data

Report: 1004991
 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

Samples Received on:
 05/19/2022 1000

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	NR (HB,N1)	ug/L	0.60	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	NR (HB,N1)	ug/L	0.60	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Diazinon (Qualitative)	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Dibenz(a,h)Anthracene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Dichlorvos (DDVP)	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Dieldrin	NR (HB,N1)	ug/L	0.20	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Diethylphthalate	NR (HB,N1)	ug/L	0.50	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Dimethoate	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Dimethylphthalate	NR (HB,N1)	ug/L	0.50	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Di-n-Butylphthalate	NR (HB,N1)	ug/L	1.0	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Di-N-octylphthalate	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Endosulfan I (Alpha)	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Endosulfan II (Beta)	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Endosulfan Sulfate	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Endrin	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Endrin Aldehyde	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	EPTC	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Fluoranthene	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Fluorene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	gamma-Chlordane	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Heptachlor	NR (HB,N1)	ug/L	0.040	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Heptachlor Epoxide (isomer B)	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Hexachlorobenzene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Hexachlorocyclopentadiene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Isophorone	NR (HB,N1)	ug/L	0.50	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Lindane	NR (HB,N1)	ug/L	0.040	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Malathion	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Methoxychlor	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Metolachlor	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Metribuzin	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Molinate	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Naphthalene	NR (HB,N1)	ug/L	0.30	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Parathion	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Pendimethalin	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Permethrin (mixed isomers)	NR (HB,N1)	ug/L	0.20	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Phenanthrene	NR (HB,N1)	ug/L	0.040	1

Rounding on totals after summation.
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 1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 1004991
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

Samples Received on:
 05/19/2022 1000

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Propachlor	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Pyrene	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Simazine	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Terbacil	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Terbutylazine	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Thiobencarb (ELAP)	NR (HB,N1)	ug/L	0.20	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	trans-Nonachlor	NR (HB,N1)	ug/L	0.050	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Trifluralin	NR (HB,N1)	ug/L	0.10	1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	NR	%		1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Acenaphthene-d10	NR	%		1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Chrysene-d12	NR	%		1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Perylene-d12	NR	%		1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Phenanthrene-d10	NR	%		1
06/01/22	06/01/22 08:00	1409962	1409969	(EPA 525.2)	Triphenylphosphate	NR	%		1
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
05/23/22	05/23/22 18:00			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
05/24/22	05/25/22 19:09			(SW 8015B)	TPH Diesel	ND	mg/L	0.024	1
05/24/22	05/25/22 19:09			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.048	1
TB: HALAWA WELLS P2 (331-024-WL064) (202205210044)							Sampled on 05/17/2022 1008		
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
05/23/22	05/23/22 17:25			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1

Rounding on totals after summation.
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Eaton Analytical

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

Laboratory QC Summary

Report: 1004991
Project: RED-HILL
Group: Weekly TPH-8015_RED-HILL (2022)
- EMAX

Honolulu Board of Water Supply

Semivolatiles by GCMS

Prep Batch: 1409962 Analytical Batch: 1409969

202205210043

HALAWA WELLS P2 (331-024-WL064)

Analysis Date: 06/01/2022

Analyzed by: MXV



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

Date: 06-08-2022
EMAX Batch No.: 22E250

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 1004991

Enclosed is the Laboratory report for samples received on 05/23/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202205210043	E250-01	05/17/22	WATER	TPH GASOLINE TPH DIESEL & MOTOR OIL
202205210044	E250-02	05/17/22	WATER	TPH GASOLINE
202205210043MS	E250-01M	05/17/22	WATER	TPH GASOLINE TPH DIESEL
202205210043MSD	E250-01S	05/17/22	WATER	TPH GASOLINE TPH DIESEL

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 CA002912022-22
ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672



Eaton Analytical

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

Torrance, CA 90505

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

Folder #: 1004991 Report Due: 05/25/2022

Sample ID: 202205210043 Client Sample ID for reference on: HALAWA WELLS P2 (331-024-WL064)

Sample type: Sample Event:

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

SW 8015B EPA 3550B TPH 8015 Diesel and Motor Oil

Sample ID: 202205210044 Client Sample ID for reference on: TB: HALAWA WELLS P2 (331-024-WL064)

Sample type: Sample Event:

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

SW 8015B EPA 3550B

Sample Date & Time Matrix: 05/17/22 1008 DW Clip Code: PWSID: JLS

Sample Point ID: Static ID:

Facility ID:

Sample Date & Time Matrix: 05/17/22 1008 DW Clip Code: PWSID: JLS

Sample Point ID: Static ID:

Facility ID:

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

Provide in each Report the Specified State Certification # and Exp Date for requested tests + matrix.
Samples from: HAWAII

Submittal Form

Date: 5/23/2022

*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder # 1004991 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.

22 E 250

Relinquished by: [Signature] Date: 5/23/22 Time: 17:04 Sample Control
Received by: [Signature] Date: 5/23/22 Time: 18:00
Relinquished by: Date: Time:
Received by: Date: Time:
Temp: 1-2/1.4 1-1/1.3 0.9/1.1 4.4/4.6 CF: T0.2

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras



Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others	Airbill / Tracking Number	ECN <u>22E250</u>
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Recipient <u>Jhwin Zamora</u>
		Date <u>05/23/22</u> Time <u>12:04</u>

COC INSPECTION

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time	<input checked="" type="checkbox"/> Sample ID	<input type="checkbox"/> Matrix
<input type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> TAT
Safety Issues (if any)	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> From Superfund Site	<input type="checkbox"/> Rad screening required		

Note: _____

PACKAGING INSPECTION

Container <input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition <u>correction factor +0.2</u>	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact
Packaging <input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Damaged
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>1.2/1.4</u> °C	<input checked="" type="checkbox"/> Cooler 2 <u>1.1/1.3</u> °C
Thermometer: <u>A - S/N 210583479</u>	<input type="checkbox"/> Cooler 3 <u>0.9/1.1</u> °C	<input checked="" type="checkbox"/> Cooler 4 <u>4.4/4.6</u> °C
	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C
	<input type="checkbox"/> Cooler 8 _____ °C	<input type="checkbox"/> Cooler 9 _____ °C
	<input type="checkbox"/> Cooler 10 _____ °C	<input type="checkbox"/> Cooler 10 _____ °C

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
1	1-9	D10		R8
1	5,6	D2	analysis reads "05 PIVS C PIVS TICS" *	↓
2	10,11	D7	two dates on label - 5/4/22 and 5/17/22	R1
<i>ap/pe</i>				

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. *MB 5/23/22*

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? YES NO

* preservation on SRF2

sample (5,6) preservation HCl + Sodium Sulfate

LEGEND:

Code Description-Sample Management	Code Description-Sample Management	Code Description-Sample Management
D1 Analysis is not indicated in _____	D13 Out of Holding Time	R1 Proceed as indicated in <input checked="" type="checkbox"/> COC <input type="checkbox"/> Label
D2 Analysis mismatch COC vs label	D14 Bubble is >6mm	R2 Refer to attached instruction
D3 Sample ID mismatch COC vs label	D15 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] [leaking] [broken]	D17 Preservation mismatch COC vs label	R5 Log-in with latest sampling date and time+1 min
D6 Date/Time is not indicated in _____	D18 Insufficient chemical preservative	R6 Adjust pH as necessary
D7 Date/Time mismatch COC vs label	D19 Insufficient Sample	R7 Filter and preserved as necessary
D8 Sample listed in COC is not received	D20 No filtration info for dissolved analysis	R8 <u>informed client</u>
D9 Sample received is not listed in COC	D21 No sample for moisture determination	R9 _____
D10 No initial/date on corrections in COC label	D22 _____	R10 _____
D11 Container count mismatch COC vs received	D23 _____	R11 _____
D12 Container size mismatch COC vs received	D24 _____	R12 _____

REVIEWS:

Sample Labeling <u>Jocelyn Solis Zamora</u>	SRF <u>_____</u>	PM <u>MB</u>
Date <u>05/23/22</u>	Date <u>5/23/22</u>	Date <u>5/23/22</u>

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.
B	B	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

1004991

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

SDG#: 22E250

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1004991

SDG : 22E250

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

A total of two(2) water samples were received on 05/23/22 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. VGH7E09B - 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. VGH7E09L/VGH7E09C 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 E250-01M/E250-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
Project : 1004991

SDG NO. : 22E250
Instrument ID : H7

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	WATER		Extraction Date/Time	Sample Data FN	Calibration Prep.		Notes
				Analysis Date/Time	% Moist			Data FN	Batch	
MBLK1W	VGH7E09B	1	NA	05/23/2214:28	05/23/2214:28	AE23005A	AE23003A	22VGH7E09	Method Blank	
LCS1W	VGH7E09L	1	NA	05/23/2215:03	05/23/2215:03	AE23006A	AE23003A	22VGH7E09	Lab Control Sample (LCS)	
LCD1W	VGH7E09C	1	NA	05/23/2215:38	05/23/2215:38	AE23007A	AE23003A	22VGH7E09	LCS Duplicate	
202205210044	E250-02	1	NA	05/23/2217:25	05/23/2217:25	AE23010A	AE23003A	22VGH7E09	Field Sample	
202205210043	E250-01	1	NA	05/23/2218:00	05/23/2218:00	AE23011A	AE23003A	22VGH7E09	Field Sample	
202205210043MS	E250-01M	1	NA	05/23/2218:36	05/23/2218:36	AE23012A	AE23003A	22VGH7E09	Matrix Spike Sample (MS)	
202205210043MSD	E250-01S	1	NA	05/23/2219:11	05/23/2219:11	AE23013A	AE23003A	22VGH7E09	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: 05/17/22 10:08
Project     : 1004991                        Date Received: 05/23/22
Batch No.   : 22E250                          Date Extracted: 05/23/22 18:00
Sample ID   : 202205210043                   Date Analyzed: 05/23/22 18:00
Lab Samp ID: E250-01                          Dilution Factor: 1
Lab File ID: AE23011A                         Matrix: WATER
Ext Btch ID: 22VGH7E09                        % Moisture: NA
Calib. Ref.: AE23003A                         Instrument ID: H7
=====
  
```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0358	0.0400	90	60-140

Notes:

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

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

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 05/17/22 10:08
Project    : 1004991                     Date Received: 05/23/22
Batch No.  : 22E250                      Date Extracted: 05/23/22 17:25
Sample ID  : 202205210044                Date Analyzed: 05/23/22 17:25
Lab Samp ID: E250-02                     Dilution Factor: 1
Lab File ID: AE23010A                    Matrix: WATER
Ext Btch ID: 22VGH7E09                   % Moisture: NA
Calib. Ref.: AE23003A                    Instrument ID: H7
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0361	0.0400	90	60-140

Notes:

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

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

QC SUMMARIES

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 05/23/22 14:28
Project    : 1004991                     Date Received: 05/23/22
Batch No.  : 22E250                       Date Extracted: 05/23/22 14:28
Sample ID  : MBLK1W                       Date Analyzed: 05/23/22 14:28
Lab Samp ID: VGH7E09B                     Dilution Factor: 1
Lab File ID: AE23005A                     Matrix: WATER
Ext Btch ID: 22VGH7E09                    % Moisture: NA
Calib. Ref.: AE23003A                     Instrument ID: H7
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0385	0.0400	96	60-140

Notes:

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

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 1004991
BATCH NO. : 22E250
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W         LCD1W
LAB SAMPLE ID : VGH7E09B                         VGH7E09L     VGH7E09C
LAB FILE ID  : AE23005A                         AE23006A     AE23007A
DATE PREPARED : 05/23/22 14:28                 05/23/22 15:03 05/23/22 15:38
DATE ANALYZED : 05/23/22 14:28                 05/23/22 15:03 05/23/22 15:38
PREP BATCH   : 22VGH7E09                       22VGH7E09    22VGH7E09
CALIBRATION REF: AE23003A                      AE23003A     AE23003A
  
```

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.460	92	0.500	0.483	97	5	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0490	123	0.0400	0.0498	125	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 : 1004991
BATCH NO. : 22E250
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202205210043                       202205210043MSD
LAB SAMPLE ID : E250-01                           E250-01S
LAB FILE ID  : AE23011A                           AE23012A
DATE PREPARED : 05/23/22 18:00                    05/23/22 18:36
DATE ANALYZED : 05/23/22 18:00                    05/23/22 19:11
PREP BATCH   : 22VGH7E09                           22VGH7E09
CALIBRATION REF: AE23003A                           AE23003A
=====
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.422	84	0.500	0.437	87	3	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0445	111	0.0400	0.0437	109	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

1004991

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22E250

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1004991

SDG : 22E250

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 05/23/22 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. DSE032WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSE032WL. 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 22E250-01M/22E250-01S. 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

```

=====
Client       : EUROFINS EATON ANALYTICAL           SDG NO.       : 22E250
Project      : 1004991                           Instrument ID  : D5
=====

```

```

=====
Client       : EUROFINS EATON ANALYTICAL           SDG NO.       : 22E250
Project      : 1004991                           Instrument ID  : D5
=====

```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Prep. Data FN	Batch	Notes

```

=====
FN - Filename
% Moist - Percent Moisture
=====

```

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 05/17/22 10:08
Project    : 1004991                     Date Received: 05/23/22
Batch No.  : 22E250                       Date Extracted: 05/24/22 15:30
Sample ID  : 202205210043                Date Analyzed: 05/25/22 19:09
Lab Samp ID: 22E250-01                   Dilution Factor: 1
Lab File ID: LE25016A                    Matrix: WATER
Ext Btch ID: 22DSE032W                    % Moisture: NA
Calib. Ref.: LE25004A                     Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.024	0.012	
Motor Oil	ND	0.048	0.024	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.431	0.480	90	60-130
Hexacosane	0.124	0.120	104	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 : 1040ml 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: 05/24/22 15:30
Project    : 1004991                     Date Received: 05/24/22
Batch No.  : 22E250                       Date Extracted: 05/24/22 15:30
Sample ID  : MBLK1W                       Date Analyzed: 05/25/22 17:18
Lab Samp ID: DSE032WB                     Dilution Factor: 1
Lab File ID: LE25010A                     Matrix: WATER
Ext Btch ID: 22DSE032W                   % Moisture: NA
Calib. Ref.: LE25004A                   Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.441	0.500	88	60-130
Hexacosane	0.123	0.125	98	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 : 1000ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 1004991
BATCH NO. : 22E250
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1
SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSE032WB DSE032WL
LAB FILE ID : LE25010A LE25011A
DATE PREPARED : 05/24/22 15:30 05/24/22 15:30
DATE ANALYZED : 05/25/22 17:18 05/25/22 17:36
PREP BATCH : 22DSE032W 22DSE032W
CALIBRATION REF: LE25004A LE25004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.67	107	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.468	94	60-130
Hexacosane	0.125	0.127	102	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 1004991
BATCH NO. : 22E250
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202205210043                       202205210043MSD
LAB SAMPLE ID : 22E250-01                       22E250-01S
LAB FILE ID  : LE25016A                         LE25017A
DATE PREPARED : 05/24/22 15:30                 05/24/22 15:30
DATE ANALYZED : 05/25/22 19:09                 05/25/22 19:46
PREP BATCH   : 22DSE032W                       22DSE032W
CALIBRATION REF: LE25004A                       LE25004A
=====
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.72	109	2.45	2.67	109	2	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.473	95	0.490	0.478	98	60-130
Hexacosane	0.125	0.133	106	0.123	0.125	102	60-130

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