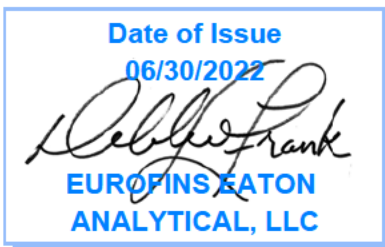


750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

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: 1006145
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
Enterococci	Enterolert	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalert	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x	
Acrylamide	+ LCMS 2440)	x	
Algal Toxins/Microcys in	+ LCMS 3570	x	
Alkalinity	SM 2320B	x	x
Ammonia	EPA 350.1, SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		x
Bromate	+ LCMS- 2447	x	
Carbonate as CO3	SM 2330 B	x	x
Carbonyls	EPA 556	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+ 335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	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

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfect ion Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+ LCMS-2443	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	+(GCMS 2412) by EPA 524.2 modified	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 #: 1006145
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 26, 2022 at 1100**. 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>202205260925</u>	MOANALUA WELLS (331-223-TP202)	05/24/2022 1023
	@525PLUS C PLUS TICS (SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil	
<u>202205260926</u>	TB:MOANALUA WELLS (331-223-TP202)	05/24/2022 1023
	(UB)Gas Fraction Hydrocarbons	

Test Description

@525PLUS C PLUS TICS -- Semivolatiles by GCMS



Eaton Analytical

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY.

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

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: WLG/MS

SAMPLES LOGGED IN BY: GR

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona
 Monrovia

°C (Compliance: 4 ± 2 °C)
3.7 °C (Compliance: 4 ± 2 °C)

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

CONDITION OF BLUE ICE: Frozen Thawed Wet Ice No Ice

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: **HONOLULU BOARD OF WATER SUPPLY**

PROJECT CODE: **RED HILL-Weekly**

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES

REGULATION INVOLVED:

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)

EEA CLIENT CODE: **COC ID:**

SAMPLE GROUP:

STD_X_ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

TAT requested: **RUSH**

SAMPLE DATE

FIELD DATA

MATRIX

CLIENT LAB ID

SAMPLE TIME

5/24/22 1023 Moanalua Wells

H10000331-223

CFW

X

Red Hill

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLER COMMENTS

* MATRIX TYPES: RSW = Raw Surface Water
RGW = Raw Ground Water

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

SEAW = Sea Water
WW = Waste Water

BW = Bottled Water
SW = Storm Water

SO = Soil
SL = Sludge

O = Other - Please Identify

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

SAMPLED BY:

RELINQUISHED BY:

RECEIVED BY:

EJ

EJ

BWS HONOLULU

BWS HONOLULU

5/24/22

1023

RECEIVED BY:

RECEIVED BY:

RECEIVED BY:

EJ

EJ

BWS HONOLULU

BWS HONOLULU

5/25/22

1200

RECEIVED BY:

RECEIVED BY:

RECEIVED BY:

EJ

EJ

BWS HONOLULU

BWS HONOLULU

5/26/22

11:00



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 3:15:49PM

Note: Sampler Please return this paper with your samples

Kit #: 318557



Client ID: HONOLULU



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

Created By: - [AutoGenerated]
Deliver By: 05/04/2022
STG: Bottle Orders
Ice Type: W

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	

Sum Bottles: 67

Comments

WEEKLY SAMPLING

5/24/2022

Moanalua Wells

Code Status Date Shipped Via Tracking # # of Coolers Prepared By



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 166145

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 = 401A (Observation = 3.9 °C) (Corr.Factor -0.2 °C) (Final = 3.7 °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: _____

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 quadrants

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 _____

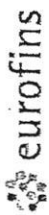
7) VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
Exempt from headspace concerns: Methods 515.4, HAA(6251,652), 505, SPME,@CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

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: <u>[Signature]</u>	PRINT NAME: <u>G. REITNER</u>	COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: <u>05/26/22</u>	TIME: <u>11:00</u>
SAMPLES CHECKED AGAINST COC BY: _____	PRINT NAME: _____	COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: _____	TIME: _____



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 1026145

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 = 401A (Observation = 4.1 °C) (Corr. Factor -0.2 °C) (Final = 3.9 °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: _____

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 quadrants

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 _____

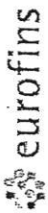
VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
Exempt from headspace concerns: Methods 615.4, HAA(6251,662), 605, SPME, @CH, 632LCMS, 656, 636, Anatoxin, LCMS methods using 40 ml vials, International clients:

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

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

RECEIVED BY: <u>[Signature]</u>	PRINT NAME: <u>G. RETNER</u>	COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: <u>05/26/22</u>	TIME: <u>11:00</u>
SAMPLES CHECKED AGAINST COC BY: _____	PRINT NAME: _____	COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: _____	TIME: _____



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 1061MS

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 = 401A (Observation = 4.9 °C) (Corr.Factor = -0.2 °C) (Final = 4.7 °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: _____

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤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 (if received after 2 hours of sample collection)

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

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 _____

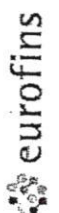
7) VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

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:

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: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		G. REITNER	Eurofins Eaton Analytical	05/26/22	11:00
SAMPLES CHECKED AGAINST COC BY: _____	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
			Eurofins Eaton Analytical		



INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 106145

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 = 401A (Observation = 4.7 °C) (Corr. Factor = 0.2 °C) (Final = 4.5 °C)
TYPE OF ICE: Real Synthetic No Ice Frozen Partially Frozen Thawed N/A

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

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

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

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:

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

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

RECEIVED BY: <u>[Signature]</u>	PRINT NAME: <u>G. RETNER</u>	DATE: <u>05/26/22</u>	TIME: <u>11:00</u>
SAMPLES CHECKED AGAINST COG BY: _____		COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: _____
SIGNATURE: _____		COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: _____

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

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
 750 ROYAL OAKS DR
 SUITE 100

MONROVIA CA 91016

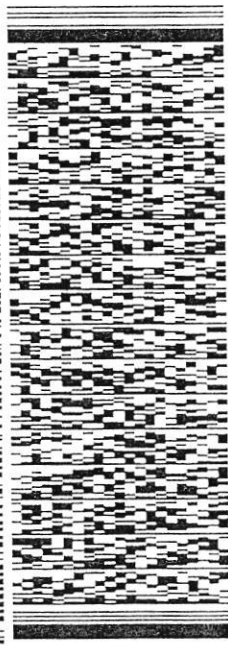
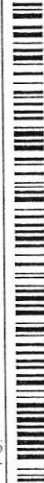
REF: (626) 386-1178

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 PRIORITY OVERNIGHT

1 of 4

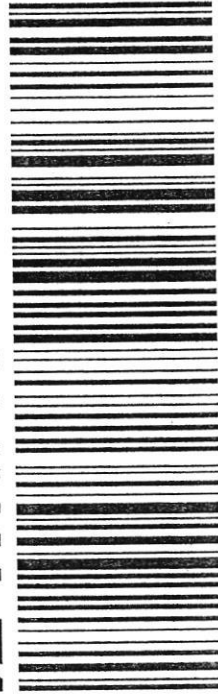
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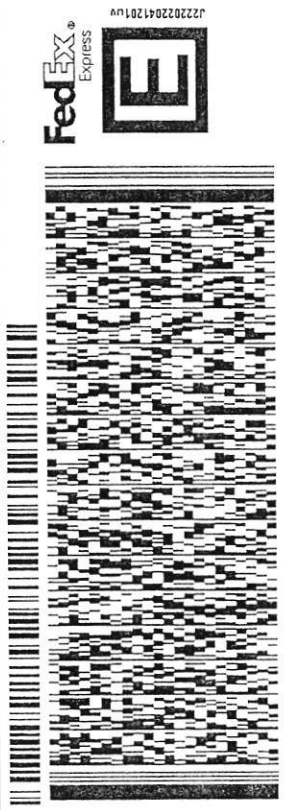
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BWS CHEM/LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 25MAY22
ACTWGT: 50.00 LB
CAD: 100205419/INET4490

BILL RECIPIENT

To **C CHUCK**
EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016
(626) 386-1178 REF:
INV. PO. DEPT.

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THU - 26 MAY 10:30A
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2 of 4
MPS# 7769 6079 3802
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SHIP DATE: 25MAY22
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CAD: 100205419/INET4490

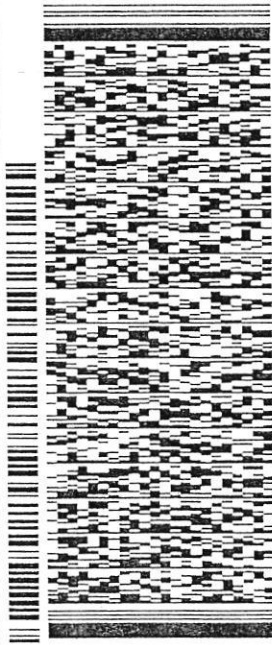
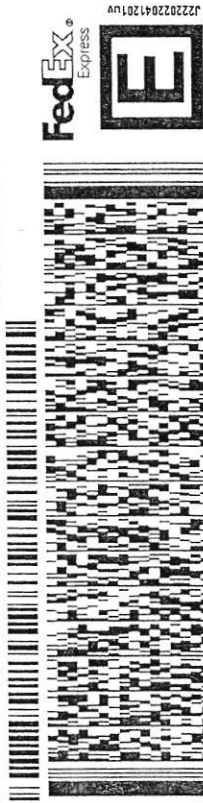
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UNITED STATES US

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3 of 4

MPS# 7769 6079 3916

0263

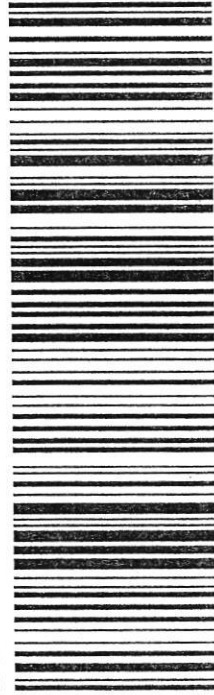
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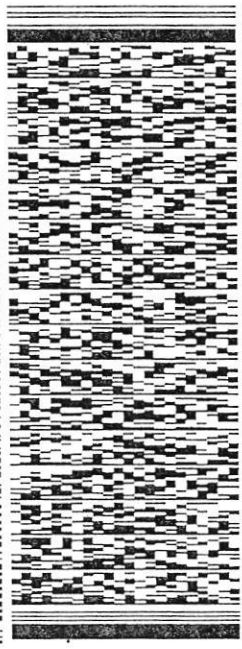
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4 of 4

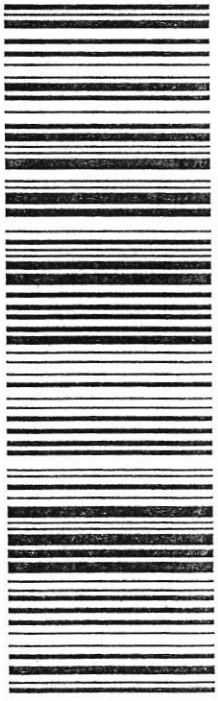
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Mstr# 7769 6079 3905

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

Laboratory Comments

Report: 1006145
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

Analytical results for TPH Gas, Diesel, and Mortor Oil are submitted by EMAX Laboratories, Torrance, CA

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.

Tentatively Identified compounds (TIC).

The analyte has been "tentatively identified" as present and the associated numerical value is the estimated concentration in the sample. The analytes are not positively identified or quantified. Presentation of results in this report does not indicate actual presence of the compound identified in the TIC summary. Information is for study purposes only.

@525.2 (SVOC by GCMS)

202205260925 525.2 TICs None detected.

Flags Legend:

LE - MRL Check recovery was above laboratory acceptance limits.



Eaton Analytical

Tel: (626) 386-1100
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Laboratory Hits

Report: 1006145
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:
05/26/2022 1100

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: 1006145
 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:
 05/26/2022 1100

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
MOANALUA WELLS (331-223-TP202) (202205260925)						Sampled on 05/24/2022 1023			
EPA 525.2 - Semivolatiles by GCMS									
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	1-Methylnaphthalene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	2,4-DDD	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	2,4-DDE	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	2,4-DDT	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	2-methylnaphthalene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	4,4-DDD	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	4,4-DDE	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	4,4-DDT	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Acenaphthene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Acetochlor	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Alachlor	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Anthracene	ND	ug/L	0.020	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Atrazine	ND (LE)	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.020	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.020	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.020	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Beta-BHC	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Bromacil	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Butachlor	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.50	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Chloroneb	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Chrysene	ND	ug/L	0.020	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Delta-BHC	ND	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
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 1 800 566 LABS (1 800 566 5227)

Report: 1006145
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:
 05/26/2022 1100

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.60	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.60	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Dibenz(a,h)Anthracene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Dichlorvos (DDVP)	ND (LE)	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Dieldrin	ND	ug/L	0.20	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.50	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Dimethoate	ND (LE)	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.50	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1.0	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Endrin	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	EPTC	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Fluoranthene	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Fluorene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Heptachlor	ND	ug/L	0.040	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Isophorone	ND	ug/L	0.50	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Lindane	ND	ug/L	0.040	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Malathion	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Methoxychlor	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Metolachlor	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Metribuzin	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Molinate	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Naphthalene	ND	ug/L	0.30	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Parathion	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Pendimethalin	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.20	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Phenanthrene	ND	ug/L	0.040	1

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Laboratory Data

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

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 630 South Beretania Street
 Public Service Bldg.” Room 308
 Honolulu, HI 96843

Samples Received on:
 05/26/2022 1100

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Propachlor	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Pyrene	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Simazine	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Terbacil	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Terbutylazine	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.20	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.050	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Trifluralin	ND	ug/L	0.10	1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	97	%		1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Acenaphthene-d10	75	%		1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Chrysene-d12	78	%		1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Perylene-d12	92	%		1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Phenanthrene-d10	83	%		1
06/07/22	06/09/22 12:44	1411307	1412142	(EPA 525.2)	Triphenylphosphate	108	%		1
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
05/27/22	05/27/22 21:25			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
05/31/22	06/01/22 23:28			(SW 8015B)	TPH Diesel	ND	mg/L	0.026	1
05/31/22	06/01/22 23:28			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1
TB:MOANALUA WELLS (331-223-TP202) (202205260926)							Sampled on 05/24/2022 1023		
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
05/27/22	05/27/22 22:01			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	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.



Eaton Analytical

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Fax: (866) 988-3757
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Laboratory QC Summary

Report: 1006145
Project: RED-HILL
Group: Weekly TPH-8015_RED-HILL (2022)
- EMAX

Honolulu Board of Water Supply

Semivolatiles by GCMS

Prep Batch: 1411307 Analytical Batch: 1412142

202205260925

MOANALUA WELLS (331-223-TP202)

Analysis Date: 06/09/2022

Analyzed by: PAC

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
Semivolatiles by GCMS by EPA 525.2									
Prep Batch: 1411307 Analytical Batch: 1412142					Analysis Date: 06/09/2022				
DUP_202206010411	1,3-Dimethyl-2-nitrobenzene (S)			95.6	%	96	(70-130)		
LCS1	1,3-Dimethyl-2-nitrobenzene (S)		5	97.4	%	97	(70-130)		
LC 2	1,3 Dimethyl 2 nitrobenzene ()		5	99.2	%	99	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			97.8	%	98	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)		5	93.2	%	93	(70-130)		
MS_202206010347	1,3-Dimethyl-2-nitrobenzene (S)		5	70.0	%	70	(70-130)		
DUP_202206010411	1-Methylnaphthalene			ND	ug/L		(0-20)		
LCS1	1-Methylnaphthalene		2	1.96	ug/L	98	(70-130)		
LCS2	1-Methylnaphthalene		2	1.94	ug/L	97	(70-130)	20	1.0
MBLK	1-Methylnaphthalene			<0.1	ug/L				
MRL_CHK	1-Methylnaphthalene		0.1	0.103	ug/L	103	(50-150)		
MS_202206010347	1-Methylnaphthalene		2	1.57	ug/L	79	(70-130)		
DUP_202206010411	2,4-DDD			ND	ug/L		(0-20)		
LCS1	2,4-DDD		2	2.17	ug/L	109	(70-130)		
LCS2	2,4-DDD		2	2.25	ug/L	113	(70-130)	20	3.6
MBLK	2,4-DDD			<0.1	ug/L				
MRL_CHK	2,4-DDD		0.1	0.122	ug/L	122	(50-150)		
MS_202206010347	2,4-DDD		2	2.49	ug/L	124	(70-130)		
DUP_202206010411	2,4-DDE			ND	ug/L		(0-20)		
LCS1	2,4-DDE		2	2.11	ug/L	106	(70-130)		
LCS2	2,4-DDE		2	2.14	ug/L	107	(70-130)	20	1.4
MBLK	2,4-DDE			<0.1	ug/L				
MRL_CHK	2,4-DDE		0.1	0.0990	ug/L	99	(50-150)		
MS_202206010347	2,4-DDE		2	2.38	ug/L	119	(70-130)		
DUP_202206010411	2,4-DDT			ND	ug/L		(0-20)		
LCS1	2,4-DDT		2	2.10	ug/L	105	(70-130)		
LCS2	2,4-DDT		2	2.19	ug/L	110	(70-130)	20	4.2
MBLK	2,4-DDT			<0.1	ug/L				
MRL_CHK	2,4-DDT		0.1	0.122	ug/L	122	(50-150)		
MS_202206010347	2,4-DDT		2	2.39	ug/L	120	(70-130)		
DUP_202206010411	2,4-Dinitrotoluene	ND		ND	ug/L		(0-20)		
LCS1	2,4-Dinitrotoluene		2	1.95	ug/L	98	(70-130)		
LCS2	2,4-Dinitrotoluene		2	1.94	ug/L	97	(70-130)	20	0.51
MBLK	2,4-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.116	ug/L	116	(50-150)		

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 RPD not calculated for LCS2 when different a concentration than LCS1 is used.
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 1006145
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 - EMAX

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202206010347	2,4-Dinitrotoluene	ND	2	4.08	ug/L	204	(70-130)		
DUP_202206010411	2,6-Dinitrotoluene	ND		ND	ug/L		(0-20)		
LCS1	2,6-Dinitrotoluene		2	2.04	ug/L	102	(70-130)		
LCS2	2,6-Dinitrotoluene		2	2.10	ug/L	105	(70-130)	20	2.9
MBLK	2,6-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.0920	ug/L	92	(50-150)		
MS_202206010347	2,6-Dinitrotoluene	ND	2	3.43	ug/L	172	(70-130)		
DUP_202206010411	2-methylnaphthalene			ND	ug/L		(0-20)		
LCS1	2-methylnaphthalene		2	2.10	ug/L	105	(70-130)		
LCS2	2-methylnaphthalene		2	2.07	ug/L	103	(70-130)	20	1.4
MBLK	2-methylnaphthalene			<0.1	ug/L				
MRL_CHK	2-methylnaphthalene		0.1	0.105	ug/L	105	(50-150)		
MS_202206010347	2-methylnaphthalene		2	1.72	ug/L	86	(70-130)		
DUP_202206010411	4,4-DDD	ND		ND	ug/L		(0-20)		
LCS1	4,4-DDD		2	2.26	ug/L	113	(70-130)		
LCS2	4,4-DDD		2	2.34	ug/L	117	(70-130)	20	3.9
MBLK	4,4-DDD			<0.1	ug/L				
MRL_CHK	4,4-DDD		0.1	0.106	ug/L	106	(50-150)		
MS_202206010347	4,4-DDD	ND	2	2.62	ug/L	131	(70-130)		
DUP_202206010411	4,4-DDE	ND		ND	ug/L		(0-20)		
LCS1	4,4-DDE		2	2.06	ug/L	103	(70-130)		
LCS2	4,4-DDE		2	2.13	ug/L	106	(70-130)	20	3.3
MBLK	4,4-DDE			<0.1	ug/L				
MRL_CHK	4,4-DDE		0.1	0.100	ug/L	100	(50-150)		
MS_202206010347	4,4-DDE	ND	2	2.29	ug/L	115	(70-130)		
DUP_202206010411	4,4-DDT	ND		ND	ug/L		(0-20)		
LCS1	4,4-DDT		2	2.10	ug/L	105	(70-130)		
LCS2	4,4-DDT		2	2.20	ug/L	110	(70-130)	20	4.7
MBLK	4,4-DDT			<0.1	ug/L				
MRL_CHK	4,4-DDT		0.1	0.119	ug/L	119	(50-150)		
MS_202206010347	4,4-DDT	ND	2	2.42	ug/L	121	(70-130)		
DUP_202206010411	Acenaphthene	ND		ND	ug/L		(0-20)		
LCS1	Acenaphthene		2	2.00	ug/L	100	(70-130)		
LCS2	Acenaphthene		2	1.99	ug/L	100	(70-130)	20	0.50
MBLK	Acenaphthene			<0.1	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0980	ug/L	98	(50-150)		
MS_202206010347	Acenaphthene	ND	2	1.97	ug/L	99	(70-130)		
DUP_202206010411	Acenaphthene-d10 (I)			83.2	%	83	(50-150)		

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Report: 1006145
 Project: RED-HILL
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 - EMAX

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Acenaphthene-d10 (I)		5	80.0	%	80	(50-150)		
LCS2	Acenaphthene-d10 (I)		5	81.7	%	82	(50-150)		
MBLK	Acenaphthene-d10 (I)			79.8	%	80	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)		5	82.6	%	83	(50-150)		
MS_202206010347	Acenaphthene-d10 (I)		5	30.0	%	<u>30</u>	(50-150)		
DUP_202206010411	Acenaphthylene	ND		ND	ug/L		(0-20)		
LCS1	Acenaphthylene		2	1.88	ug/L	94	(70-130)		
LCS2	Acenaphthylene		2	1.97	ug/L	99	(70-130)	20	4.7
MBLK	Acenaphthylene			<0.1	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0800	ug/L	80	(50-150)		
MS_202206010347	Acenaphthylene	ND	2	1.91	ug/L	96	(70-130)		
DUP_202206010411	Acetochlor	ND		ND	ug/L		(0-20)		
LCS1	Acetochlor		2	2.08	ug/L	104	(70-130)		
LCS2	Acetochlor		2	2.10	ug/L	105	(70-130)	20	0.96
MBLK	Acetochlor			<0.1	ug/L				
MRL_CHK	Acetochlor		0.05	0.0440	ug/L	88	(50-150)		
MS_202206010347	Acetochlor	ND	2	2.37	ug/L	118	(70-130)		
DUP_202206010411	Alachlor	ND		ND	ug/L		(0-20)		
LCS1	Alachlor		2	2.04	ug/L	102	(70-130)		
LCS2	Alachlor		2	2.11	ug/L	106	(70-130)	20	3.4
MBLK	Alachlor			<0.05	ug/L				
MRL_CHK	Alachlor		0.05	0.0490	ug/L	98	(50-150)		
MS_202206010347	Alachlor	ND	2	2.36	ug/L	118	(70-130)		
DUP_202206010411	Alpha-BHC	ND		ND	ug/L		(0-20)		
LCS1	Alpha-BHC		2	2.04	ug/L	102	(70-130)		
LCS2	Alpha-BHC		2	2.03	ug/L	101	(70-130)	20	0.49
MBLK	Alpha-BHC			<0.1	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.109	ug/L	109	(50-150)		
MS_202206010347	Alpha-BHC	ND	2	4.37	ug/L	<u>219</u>	(70-130)		
DUP_202206010411	alpha-Chlordane	ND		ND	ug/L		(0-20)		
LCS1	alpha-Chlordane		2	1.99	ug/L	100	(70-130)		
LCS2	alpha-Chlordane		2	2.13	ug/L	106	(70-130)	20	6.8
MBLK	alpha-Chlordane			<0.05	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0510	ug/L	102	(50-150)		
MS_202206010347	alpha-Chlordane	ND	2	2.31	ug/L	115	(70-130)		
DUP_202206010411	Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Anthracene		2	2.04	ug/L	102	(70-130)		
LCS2	Anthracene		2	2.06	ug/L	103	(70-130)	20	0.98

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0200	ug/L	100	(50-150)		
MS_202206010347	Anthracene	ND	2	1.98	ug/L	99	(70-130)		
DUP_202206010411	Atrazine	ND		ND	ug/L		(0-20)		
LCS1	Atrazine		2	2.10	ug/L	105	(70-130)		
LCS2	Atrazine		2	2.15	ug/L	108	(70-130)	20	2.4
MBLK	Atrazine			<0.05	ug/L				
MRL_CHK	Atrazine		0.05	0.0790	ug/L	<u>158</u>	(50-150)		
MS_202206010347	Atrazine	ND	2	5.65	ug/L	<u>283</u>	(70-130)		
DUP_202206010411	Benz(a)Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Benz(a)Anthracene		2	2.27	ug/L	113	(70-130)		
LCS2	Benz(a)Anthracene		2	2.34	ug/L	117	(70-130)	20	3.0
MBLK	Benz(a)Anthracene			<0.05	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0500	ug/L	100	(50-150)		
MS_202206010347	Benz(a)Anthracene	ND	2	2.60	ug/L	130	(70-130)		
DUP_202206010411	Benzo(a)pyrene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(a)pyrene		2	2.40	ug/L	120	(70-130)		
LCS2	Benzo(a)pyrene		2	2.39	ug/L	120	(70-130)	20	0.42
MBLK	Benzo(a)pyrene			<0.02	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0180	ug/L	90	(50-150)		
MS_202206010347	Benzo(a)pyrene	ND	2	2.37	ug/L	119	(70-130)		
DUP_202206010411	Benzo(b)Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(b)Fluoranthene		2	2.32	ug/L	116	(70-130)		
LCS2	Benzo(b)Fluoranthene		2	2.36	ug/L	118	(70-130)	20	1.7
MBLK	Benzo(b)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0210	ug/L	105	(50-150)		
MS_202206010347	Benzo(b)Fluoranthene	ND	2	2.32	ug/L	116	(70-130)		
DUP_202206010411	Benzo(g,h,i)Perylene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(g,h,i)Perylene		2	2.36	ug/L	118	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2	2.35	ug/L	118	(70-130)	20	0.43
MBLK	Benzo(g,h,i)Perylene			<0.05	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0620	ug/L	124	(50-150)		
MS_202206010347	Benzo(g,h,i)Perylene	ND	2	2.28	ug/L	114	(70-130)		
DUP_202206010411	Benzo(k)Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(k)Fluoranthene		2	2.51	ug/L	125	(70-130)		
LCS2	Benzo(k)Fluoranthene		2	2.53	ug/L	126	(70-130)	20	0.79
MBLK	Benzo(k)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0180	ug/L	90	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202206010347	Benzo(k)Fluoranthene	ND	2	2.51	ug/L	125	(70-130)		
DUP_202206010411	Beta-BHC	ND		ND	ug/L		(0-20)		
LCS1	Beta-BHC		2	2.00	ug/L	100	(70-130)		
LCS2	Beta-BHC		2	2.07	ug/L	104	(70-130)	20	3.4
MBLK	Beta-BHC			<0.1	ug/L				
MRL_CHK	Beta-BHC		0.1	0.100	ug/L	100	(50-150)		
MS_202206010347	Beta-BHC	ND	2	5.19	ug/L	260	(70-130)		
DUP_202206010411	Bromacil	ND		ND	ug/L		(0-20)		
LCS1	Bromacil		2	2.51	ug/L	126	(70-130)		
LCS2	Bromacil		2	2.55	ug/L	127	(70-130)	20	1.6
MBLK	Bromacil			<0.2	ug/L				
MRL_CHK	Bromacil		0.1	0.109	ug/L	109	(50-150)		
MS_202206010347	Bromacil	ND	2	2.99	ug/L	149	(70-130)		
DUP_202206010411	Butachlor	ND		ND	ug/L		(0 20)		
LCS1	Butachlor		2	2.27	ug/L	113	(70-130)		
LCS2	Butachlor		2	2.36	ug/L	118	(70-130)	20	3.9
MBLK	Butachlor			<0.05	ug/L				
MRL_CHK	Butachlor		0.05	0.0600	ug/L	120	(50-150)		
MS_202206010347	Butachlor	ND	2	2.58	ug/L	129	(70-130)		
DUP_202206010411	Butylbenzylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Butylbenzylphthalate		2	2.16	ug/L	108	(70-130)		
LCS2	Butylbenzylphthalate		2	2.22	ug/L	111	(70-130)	20	2.7
MBLK	Butylbenzylphthalate			<0.5	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.159	ug/L	106	(50-150)		
MS_202206010347	Butylbenzylphthalate	ND	2	2.49	ug/L	124	(70-130)		
DUP_202206010411	Caffeine by method 525mod	ND		ND	ug/L		(0-20)		
LCS1	Caffeine by method 525mod		2	1.60	ug/L	80	(45-137)		
LCS2	Caffeine by method 525mod		2	1.66	ug/L	83	(45-137)	20	3.7
MBLK	Caffeine by method 525mod			<0.05	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0330	ug/L	66	(50-150)		
MS_202206010347	Caffeine by method 525mod	ND	2	2.22	ug/L	111	(46-144)		
DUP_202206010411	Chlorobenzilate	ND		ND	ug/L		(0-20)		
LCS1	Chlorobenzilate		2	2.11	ug/L	106	(70-130)		
LCS2	Chlorobenzilate		2	2.16	ug/L	108	(70-130)	20	2.3
MBLK	Chlorobenzilate			<0.1	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.118	ug/L	118	(50-150)		
MS_202206010347	Chlorobenzilate	ND	2	2.42	ug/L	121	(70-130)		
DUP_202206010411	Chloroneb	ND		ND	ug/L		(0-20)		

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Report: 1006145
 Project: RED-HILL
 Group: Weekly TPH-8015_RED-HILL (2022)
 - EMAX

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Chloroneb		2	2.14	ug/L	107	(70-130)		
LCS2	Chloroneb		2	2.11	ug/L	105	(70-130)	20	1.4
MBLK	Chloroneb			<0.1	ug/L				
MRL_CHK	Chloroneb		0.1	0.108	ug/L	108	(50-150)		
MS_202206010347	Chloroneb	ND	2	3.32	ug/L	<u>166</u>	(70-130)		
DUP_202206010411	Chlorothalonil(Draconil,Bravo)	ND		ND	ug/L		(0-20)		
LCS1	Chlorothalonil(Draconil,Bravo)		2	2.05	ug/L	102	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2	2.08	ug/L	104	(70-130)	20	1.5
MBLK	Chlorothalonil(Draconil,Bravo)			<0.1	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.1	0.105	ug/L	105	(50-150)		
MS_202206010347	Chlorothalonil(Draconil,Bravo)	ND	2	2.38	ug/L	119	(70-130)		
DUP_202206010411	Chlorpyrifos (Dursban)	ND		ND	ug/L		(0-20)		
LCS1	Chlorpyrifos (Dursban)		2	2.11	ug/L	105	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2	2.12	ug/L	106	(70-130)	20	0.94
MBLK	Chlorpyrifos (Dursban)			<0.05	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0480	ug/L	96	(50-150)		
MS_202206010347	Chlorpyrifos (Dursban)	ND	2	2.38	ug/L	119	(70-130)		
DUP_202206010411	Chrysene	ND		ND	ug/L		(0-20)		
LCS1	Chrysene		2	2.17	ug/L	108	(70-130)		
LCS2	Chrysene		2	2.17	ug/L	109	(70-130)	20	0.0
MBLK	Chrysene			<0.02	ug/L				
MRL_CHK	Chrysene		0.02	0.0210	ug/L	105	(50-150)		
MS_202206010347	Chrysene	ND	2	2.20	ug/L	110	(70-130)		
DUP_202206010411	Chrysene-d12 (I)			85.8	%	86	(50-150)		
LCS1	Chrysene-d12 (I)		5	86.1	%	86	(50-150)		
LCS2	Chrysene-d12 (I)		5	90.7	%	91	(50-150)		
MBLK	Chrysene-d12 (I)			84.0	%	84	(50-150)		
MRL_CHK	Chrysene-d12 (I)		5	87.9	%	88	(50-150)		
MS_202206010347	Chrysene-d12 (I)		5	82.9	%	83	(50-150)		
DUP_202206010411	Delta-BHC	ND		ND	ug/L		(0-20)		
LCS1	Delta-BHC		2	1.93	ug/L	96	(70-130)		
LCS2	Delta-BHC		2	1.96	ug/L	98	(70-130)	20	1.5
MBLK	Delta-BHC			<0.1	ug/L				
MRL_CHK	Delta-BHC		0.1	0.101	ug/L	101	(50-150)		
MS_202206010347	Delta-BHC	ND	2	2.18	ug/L	109	(70-130)		
DUP_202206010411	Di-(2-Ethylhexyl)adipate	ND		ND	ug/L		(0-20)		
LCS1	Di-(2-Ethylhexyl)adipate		2	2.06	ug/L	103	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	2.16	ug/L	108	(70-130)	20	4.7

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Di-(2-Ethylhexyl)adipate			<0.6	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.310	ug/L	103	(50-150)		
MS_202206010347	Di-(2-Ethylhexyl)adipate	ND	2	2.30	ug/L	115	(70-130)		
DUP_202206010411	Di(2-E hylhexyl)phthalate	ND		ND	ug/L		(0-20)		
LCS1	Di(2-E hylhexyl)phthalate		2	2.09	ug/L	105	(70-130)		
LCS2	Di(2-E hylhexyl)phthalate		2	2.17	ug/L	108	(70-130)	20	3.8
MBLK	Di(2-E hylhexyl)phthalate			<0.6	ug/L				
MRL_CHK	Di(2-E hylhexyl)phthalate		0.6	0.626	ug/L	104	(50-150)		
MS_202206010347	Di(2-E hylhexyl)phthalate	ND	2	1.98	ug/L	99	(70-130)		
DUP_202206010411	Diazinon (Qualitative)	ND		ND	ug/L		(0-20)		
LCS1	Diazinon (Qualitative)		2	1.69	ug/L	85	(15-132)		
LCS2	Diazinon (Qualitative)		2	1.73	ug/L	86	(15-132)	20	2.3
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0850	ug/L	85	(15-132)		
MS_202206010347	Diazinon (Qualitative)	ND	2	5.06	ug/L	253	(15-132)		
DUP_202206010411	Dibenz(a,h)Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Dibenz(a,h)Anthracene		2	2.11	ug/L	106	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2	2.14	ug/L	107	(70-130)	20	1.4
MBLK	Dibenz(a,h)Anthracene			<0.05	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0640	ug/L	128	(50-150)		
MS_202206010347	Dibenz(a,h)Anthracene	ND	2	2.12	ug/L	106	(70-130)		
DUP_202206010411	Dichlorvos (DDVP)	ND		ND	ug/L		(0-20)		
LCS1	Dichlorvos (DDVP)		2	2.19	ug/L	109	(70-130)		
LCS2	Dichlorvos (DDVP)		2	2.27	ug/L	114	(70-130)	20	3.6
MBLK	Dichlorvos (DDVP)			<0.05	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0760	ug/L	152	(50-150)		
MS_202206010347	Dichlorvos (DDVP)	ND	2	2.41	ug/L	121	(70-130)		
DUP_202206010411	Dieldrin	ND		ND	ug/L		(0-20)		
LCS1	Dieldrin		2	2.02	ug/L	101	(70-130)		
LCS2	Dieldrin		2	2.11	ug/L	105	(70-130)	20	4.4
MBLK	Dieldrin			<0.2	ug/L				
MRL_CHK	Dieldrin		0.1	0.100	ug/L	100	(50-150)		
MS_202206010347	Dieldrin	ND	2	2.33	ug/L	116	(70-130)		
DUP_202206010411	Diethylphthalate	ND		ND	ug/L		(0 20)		
LCS1	Diethylphthalate		2	2.04	ug/L	102	(70-130)		
LCS2	Diethylphthalate		2	2.02	ug/L	101	(70-130)	20	0.49
MBLK	Diethylphthalate			<0.5	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.159	ug/L	106	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202206010347	Diethylphthalate	ND	2	4.41	ug/L	220	(70-130)		
DUP_202206010411	Dimethoate	ND		ND	ug/L		(0-20)		
LCS1	Dimethoate		2	1.38	ug/L	69	(35-100)		
LCS2	Dimethoate		2	1.41	ug/L	71	(35-100)	20	2.1
MBLK	Dimethoate			<0.1	ug/L				
MRL_CHK	Dimethoate		0.1	0.104	ug/L	104	(35-100)		
MS_202206010347	Dimethoate	ND	2	3.96	ug/L	198	(34-111)		
DUP_202206010411	Dimethylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Dimethylphthalate		2	2.10	ug/L	105	(70-130)		
LCS2	Dimethylphthalate		2	2.10	ug/L	105	(70-130)	20	0.0
MBLK	Dimethylphthalate			<0.5	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.307	ug/L	102	(50-150)		
MS_202206010347	Dimethylphthalate	ND	2	3.59	ug/L	180	(70-130)		
DUP_202206010411	Di-n-Butylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Di-n-Butylphthalate		4	4.16	ug/L	104	(70-130)		
LCS2	Di-n-Butylphthalate		4	4.21	ug/L	105	(70-130)	20	1.2
MBLK	Di-n-Butylphthalate			<1	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.359	ug/L	120	(50-150)		
MS_202206010347	Di-n-Butylphthalate	ND	4	4.62	ug/L	116	(70-130)		
DUP_202206010411	Di-N-octylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Di-N-octylphthalate		2	1.90	ug/L	95	(70-130)		
LCS2	Di-N-octylphthalate		2	2.01	ug/L	101	(70-130)	20	5.6
MBLK	Di-N-octylphthalate			<0.1	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.114	ug/L	114	(50-150)		
MS_202206010347	Di-N-octylphthalate	ND	2	1.84	ug/L	92	(70-130)		
DUP_202206010411	Endosulfan I (Alpha)	ND		ND	ug/L		(0-20)		
LCS1	Endosulfan I (Alpha)		2	2.06	ug/L	103	(70-130)		
LCS2	Endosulfan I (Alpha)		2	2.05	ug/L	102	(70-130)	20	0.49
MBLK	Endosulfan I (Alpha)			<0.1	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.101	ug/L	101	(50-150)		
MS_202206010347	Endosulfan I (Alpha)	ND	2	2.35	ug/L	117	(70-130)		
DUP_202206010411	Endosulfan II (Beta)	ND		ND	ug/L		(0-20)		
LCS1	Endosulfan II (Beta)		2	2.04	ug/L	102	(70-130)		
LCS2	Endosulfan II (Beta)		2	2.04	ug/L	102	(70-130)	20	0.49
MBLK	Endosulfan II (Beta)			<0.1	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.106	ug/L	106	(50-150)		
MS_202206010347	Endosulfan II (Beta)	ND	2	2.31	ug/L	115	(70-130)		
DUP_202206010411	Endosulfan Sulfate	ND		ND	ug/L		(0-20)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Endosulfan Sulfate		2	2.14	ug/L	107	(70-130)		
LCS2	Endosulfan Sulfate		2	2.18	ug/L	109	(70-130)	20	1.9
MBLK	Endosulfan Sulfate			<0.1	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.100	ug/L	100	(50-150)		
MS_202206010347	Endosulfan Sulfate	ND	2	2.44	ug/L	122	(70-130)		
DUP_202206010411	Endrin	ND		ND	ug/L		(0-20)		
LCS1	Endrin		2	1.98	ug/L	99	(70-130)		
LCS2	Endrin		2	2.05	ug/L	102	(70-130)	20	3.5
MBLK	Endrin			<0.1	ug/L				
MRL_CHK	Endrin		0.1	0.0990	ug/L	99	(50-150)		
MS_202206010347	Endrin	ND	2	2.23	ug/L	112	(70-130)		
DUP_202206010411	Endrin Aldehyde	ND		ND	ug/L		(0-20)		
LCS1	Endrin Aldehyde		2	2.11	ug/L	105	(70-130)		
LCS2	Endrin Aldehyde		2	2.16	ug/L	108	(70-130)	20	2.3
MBLK	Endrin Aldehyde			<0.1	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0790	ug/L	79	(50-150)		
MS_202206010347	Endrin Aldehyde	ND	2	2.09	ug/L	105	(70-130)		
DUP_202206010411	EPTC	ND		ND	ug/L		(0-20)		
LCS1	EPTC		2	2.04	ug/L	102	(70-130)		
LCS2	EPTC		2	2.04	ug/L	102	(70-130)	20	0.0
MBLK	EPTC			<0.1	ug/L				
MRL_CHK	EPTC		0.1	0.101	ug/L	101	(50-150)		
MS_202206010347	EPTC	ND	2	1.56	ug/L	78	(70-130)		
DUP_202206010411	Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Fluoranthene		2	2.13	ug/L	106	(70-130)		
LCS2	Fluoranthene		2	2.14	ug/L	107	(70-130)	20	0.47
MBLK	Fluoranthene			<0.1	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0520	ug/L	104	(50-150)		
MS_202206010347	Fluoranthene	ND	2	2.44	ug/L	122	(70-130)		
DUP_202206010411	Fluorene	ND		ND	ug/L		(0-20)		
LCS1	Fluorene		2	2.04	ug/L	102	(70-130)		
LCS2	Fluorene		2	2.04	ug/L	102	(70-130)	20	0.0
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0500	ug/L	100	(50-150)		
MS_202206010347	Fluorene	ND	2	2.91	ug/L	145	(70-130)		
DUP_202206010411	gamma-Chlordane	ND		ND	ug/L		(0-20)		
LCS1	gamma-Chlordane		2	2.11	ug/L	106	(70-130)		
LCS2	gamma-Chlordane		2	2.11	ug/L	105	(70-130)	20	0.0

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MBLK	gamma-Chlordane			<0.05	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0480	ug/L	96	(50-150)		
MS_202206010347	gamma-Chlordane	ND	2	2.34	ug/L	117	(70-130)		
DUP_202206010411	Heptachlor	ND		ND	ug/L		(0-20)		
LCS1	Heptachlor		2	2.05	ug/L	102	(70-130)		
LCS2	Heptachlor		2	2.02	ug/L	101	(70-130)	20	1.5
MBLK	Heptachlor			<0.04	ug/L				
MRL_CHK	Heptachlor		0.04	0.0600	ug/L	150	(50-150)		
MS_202206010347	Heptachlor	ND	2	2.02	ug/L	101	(70-130)		
DUP_202206010411	Heptachlor Epoxide (isomer B)	ND		ND	ug/L		(0-20)		
LCS1	Heptachlor Epoxide (isomer B)		2	2.09	ug/L	105	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2	2.12	ug/L	106	(70-130)	20	1.4
MBLK	Heptachlor Epoxide (isomer B)			<0.05	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0490	ug/L	98	(50-150)		
MS_202206010347	Heptachlor Epoxide (isomer B)	ND	2	2.28	ug/L	114	(70-130)		
DUP_202206010411	Hexachlorobenzene	ND		ND	ug/L		(0-20)		
LCS1	Hexachlorobenzene		2	2.00	ug/L	100	(70-130)		
LCS2	Hexachlorobenzene		2	2.01	ug/L	101	(70-130)	20	0.50
MBLK	Hexachlorobenzene			<0.05	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0590	ug/L	118	(50-150)		
MS_202206010347	Hexachlorobenzene	ND	2	3.62	ug/L	181	(70-130)		
DUP_202206010411	Hexachlorocyclopentadiene	ND		ND	ug/L		(0-20)		
LCS1	Hexachlorocyclopentadiene		2	2.05	ug/L	102	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	2.08	ug/L	104	(70-130)	20	1.5
MBLK	Hexachlorocyclopentadiene			<0.05	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0450	ug/L	90	(50-150)		
MS_202206010347	Hexachlorocyclopentadiene	ND	2	1.29	ug/L	65	(70-130)		
DUP_202206010411	Indeno(1,2,3,c,d)Pyrene	ND		ND	ug/L		(0-20)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2	2.16	ug/L	108	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2	2.19	ug/L	109	(70-130)	20	1.4
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.05	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0620	ug/L	124	(50-150)		
MS_202206010347	Indeno(1,2,3,c,d)Pyrene	ND	2	2.13	ug/L	106	(70-130)		
DUP_202206010411	Isophorone	ND		ND	ug/L		(0 20)		
LCS1	Isophorone		2	2.19	ug/L	110	(70-130)		
LCS2	Isophorone		2	2.20	ug/L	110	(70-130)	20	0.46
MBLK	Isophorone			<0.5	ug/L				
MRL_CHK	Isophorone		0.1	0.0980	ug/L	98	(50-150)		

Spike recovery is already corrected for native results.
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 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
 RPD not calculated for LCS2 when different a concentration than LCS1 is used.
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
 (S) - Indicates surrogate compound.
 (I) - Indicates internal standard compound.

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Report: 1006145
 Project: RED-HILL
 Group: Weekly TPH-8015_RED-HILL (2022)
 - EMAX

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202206010347	Isophorone	ND	2	1.59	ug/L	79	(70-130)		
DUP_202206010411	Lindane	ND		ND	ug/L		(0-20)		
LCS1	Lindane		2	2.02	ug/L	101	(70-130)		
LCS2	Lindane		2	1.99	ug/L	99	(70-130)	20	1.5
MBLK	Lindane			<0.04	ug/L				
MRL_CHK	Lindane		0.04	0.0470	ug/L	118	(50-150)		
MS_202206010347	Lindane	ND	2	4.75	ug/L	238	(70-130)		
DUP_202206010411	Malathion	ND		ND	ug/L		(0-20)		
LCS1	Malathion		2	2.20	ug/L	110	(70-130)		
LCS2	Malathion		2	2.27	ug/L	113	(70-130)	20	3.1
MBLK	Malathion			<0.1	ug/L				
MRL_CHK	Malathion		0.1	0.0960	ug/L	96	(50-150)		
MS_202206010347	Malathion	ND	2	2.53	ug/L	126	(70-130)		
DUP_202206010411	Methoxychlor	ND		ND	ug/L		(0-20)		
LCS1	Methoxychlor		2	2.31	ug/L	115	(70-130)		
LCS2	Methoxychlor		2	2.30	ug/L	115	(70-130)	20	0.43
MBLK	Methoxychlor			<0.1	ug/L				
MRL_CHK	Methoxychlor		0.1	0.0950	ug/L	95	(50-150)		
MS_202206010347	Methoxychlor	ND	2	2.32	ug/L	116	(70-130)		
DUP_202206010411	Metolachlor	ND		ND	ug/L		(0-20)		
LCS1	Metolachlor		2	2.30	ug/L	115	(70-130)		
LCS2	Metolachlor		2	2.35	ug/L	117	(70-130)	20	2.1
MBLK	Metolachlor			<0.05	ug/L				
MRL_CHK	Metolachlor		0.05	0.0500	ug/L	100	(50-150)		
MS_202206010347	Metolachlor	ND	2	2.64	ug/L	132	(70-130)		
DUP_202206010411	Metribuzin	ND		ND	ug/L		(0-20)		
LCS1	Metribuzin		2	2.06	ug/L	103	(70-130)		
LCS2	Metribuzin		2	2.08	ug/L	104	(70-130)	20	0.97
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0490	ug/L	98	(50-150)		
MS_202206010347	Metribuzin	ND	2	2.30	ug/L	115	(70-130)		
DUP_202206010411	Molinate	ND		ND	ug/L		(0-20)		
LCS1	Molinate		2	2.10	ug/L	105	(70-130)		
LC 2	Molinate		2	2.10	ug/L	105	(70 130)	20	0.0
MBLK	Molinate			<0.1	ug/L				
MRL_CHK	Molinate		0.1	0.105	ug/L	105	(50-150)		
MS_202206010347	Molinate	ND	2	2.94	ug/L	147	(70-130)		
DUP_202206010411	Naphthalene	ND		ND	ug/L		(0-20)		

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 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
 (S) - Indicates surrogate compound.
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Report: 1006145
 Project: RED-HILL
 Group: Weekly TPH-8015_RED-HILL (2022)
 - EMAX

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Naphthalene		2	2.06	ug/L	103	(70-130)		
LCS2	Naphthalene		2	2.09	ug/L	105	(70-130)	20	0.96
MBLK	Naphthalene			<0.3	ug/L				
MRL_CHK	Naphthalene		0.1	0.0970	ug/L	97	(50-150)		
MS_202206010347	Naphthalene	ND	2	1.62	ug/L	81	(70-130)		
DUP_202206010411	Parathion	ND		ND	ug/L		(0-20)		
LCS1	Parathion		2	2.03	ug/L	101	(70-130)		
LCS2	Parathion		2	2.06	ug/L	103	(70-130)	20	1.5
MBLK	Parathion			<0.1	ug/L				
MRL_CHK	Parathion		0.1	0.110	ug/L	110	(50-150)		
MS_202206010347	Parathion	ND	2	2.34	ug/L	117	(70-130)		
DUP_202206010411	Pendimethalin	ND		ND	ug/L		(0-20)		
LCS1	Pendimethalin		2	2.02	ug/L	101	(70-130)		
LCS2	Pendimethalin		2	2.05	ug/L	103	(70-130)	20	1.5
MBLK	Pendimethalin			<0.1	ug/L				
MRL_CHK	Pendimethalin		0.1	0.124	ug/L	124	(50-150)		
MS_202206010347	Pendimethalin	ND	2	2.28	ug/L	114	(70-130)		
DUP_202206010411	Permethrin (mixed isomers)	ND		ND	ug/L		(0-20)		
LCS1	Permethrin (mixed isomers)		4	4.27	ug/L	107	(70-130)		
LCS2	Permethrin (mixed isomers)		4	4.34	ug/L	109	(70-130)	20	1.6
MBLK	Permethrin (mixed isomers)			<0.2	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.2	0.225	ug/L	113	(50-150)		
MS_202206010347	Permethrin (mixed isomers)	ND	4	4.22	ug/L	105	(70-130)		
DUP_202206010411	Perylene-d12 (S)			96.6	%	97	(70-130)		
LCS1	Perylene-d12 (S)		5	98.8	%	99	(70-130)		
LCS2	Perylene-d12 (S)		5	99.6	%	100	(70-130)		
MBLK	Perylene-d12 (S)			95.4	%	95	(70-130)		
MRL_CHK	Perylene-d12 (S)		5	90.0	%	90	(70-130)		
MS_202206010347	Perylene-d12 (S)		5	98.0	%	98	(70-130)		
DUP_202206010411	Phenanthrene	ND		ND	ug/L		(0-20)		
LCS1	Phenanthrene		2	1.95	ug/L	97	(70-130)		
LCS2	Phenanthrene		2	1.96	ug/L	98	(70-130)	20	0.51
MBLK	Phenanthrene			<0.04	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0200	ug/L	100	(50-150)		
MS_202206010347	Phenanthrene	ND	2	1.95	ug/L	98	(70-130)		
DUP_202206010411	Phenanthrene-d10 (I)			87.0	%	87	(50-150)		
LCS1	Phenanthrene-d10 (I)		5	84.9	%	85	(50-150)		
LCS2	Phenanthrene-d10 (I)		5	86.6	%	87	(50-150)		

Spike recovery is already corrected for native results.
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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 RPD not calculated for LCS2 when different a concentration than LCS1 is used.
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 1006145
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 - EMAX

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Phenanthrene-d10 (I)			82.5	%	83	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)		5	87.5	%	88	(50-150)		
MS_202206010347	Phenanthrene-d10 (I)		5	72.6	%	73	(50-150)		
DUP_202206010411	Propachlor	ND		ND	ug/L		(0-20)		
LCS1	Propachlor		2	2.16	ug/L	108	(70-130)		
LCS2	Propachlor		2	2.22	ug/L	111	(70-130)	20	2.7
MBLK	Propachlor			<0.05	ug/L				
MRL_CHK	Propachlor		0.05	0.0540	ug/L	108	(50-150)		
MS_202206010347	Propachlor	ND	2	5.40	ug/L	270	(70-130)		
DUP_202206010411	Pyrene	ND		ND	ug/L		(0-20)		
LCS1	Pyrene		2	2.12	ug/L	106	(70-130)		
LCS2	Pyrene		2	2.18	ug/L	109	(70-130)	20	2.8
MBLK	Pyrene			<0.05	ug/L				
MRL_CHK	Pyrene		0.05	0.0510	ug/L	102	(50-150)		
MS_202206010347	Pyrene	ND	2	2.50	ug/L	125	(70-130)		
DUP_202206010411	Simazine	ND		ND	ug/L		(0-20)		
LCS1	Simazine		2	2.24	ug/L	112	(70-130)		
LCS2	Simazine		2	2.26	ug/L	113	(70-130)	20	0.89
MBLK	Simazine			<0.05	ug/L				
MRL_CHK	Simazine		0.05	0.0550	ug/L	110	(50-150)		
MS_202206010347	Simazine	ND	2	5.92	ug/L	296	(70-130)		
DUP_202206010411	Terbacil	ND		ND	ug/L		(0-20)		
LCS1	Terbacil		2	2.22	ug/L	111	(70-130)		
LCS2	Terbacil		2	2.28	ug/L	114	(70-130)	20	2.7
MBLK	Terbacil			<0.1	ug/L				
MRL_CHK	Terbacil		0.1	0.0930	ug/L	93	(50-150)		
MS_202206010347	Terbacil	ND	2	2.67	ug/L	134	(70-130)		
DUP_202206010411	Terbutylazine	ND		ND	ug/L		(0-20)		
LCS1	Terbutylazine		2	2.20	ug/L	110	(70-130)		
LCS2	Terbutylazine		2	2.28	ug/L	114	(70-130)	20	3.6
MBLK	Terbutylazine			<0.1	ug/L				
MRL_CHK	Terbutylazine		0.1	0.101	ug/L	101	(50-150)		
MS_202206010347	Terbutylazine	ND	2	5.87	ug/L	293	(70-130)		
DUP_202206010411	Thiobencarb	ND		ND	ug/L		(0-20)		
LCS1	Thiobencarb		2	2.05	ug/L	103	(70-130)		
LCS2	Thiobencarb		2	2.05	ug/L	102	(70-130)	20	0.0
MBLK	Thiobencarb			<0.2	ug/L				
MRL_CHK	Thiobencarb		0.1	0.105	ug/L	105	(50-150)		

Spike recovery is already corrected for native results.
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 RPD not calculated for LCS2 when different a concentration than LCS1 is used.
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
 (S) - Indicates surrogate compound.
 (I) - Indicates internal standard compound.

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202206010347	Thiobencarb	ND	2	2.34	ug/L	117	(70-130)		
DUP_202206010411	trans-Nonachlor	ND		ND	ug/L		(0-20)		
LCS1	trans-Nonachlor		2	2.09	ug/L	104	(70-130)		
LCS2	trans-Nonachlor		2	2.09	ug/L	105	(70-130)	20	0.0
MBLK	trans-Nonachlor			<0.05	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0480	ug/L	96	(50-150)		
MS_202206010347	trans-Nonachlor	ND	2	2.38	ug/L	119	(70-130)		
DUP_202206010411	Trifluralin	ND		ND	ug/L		(0-20)		
LCS1	Trifluralin		2	1.98	ug/L	99	(70-130)		
LCS2	Trifluralin		2	2.06	ug/L	103	(70-130)	20	4.0
MBLK	Trifluralin			<0.1	ug/L				
MRL_CHK	Trifluralin		0.1	0.119	ug/L	119	(50-150)		
MS_202206010347	Trifluralin	ND	2	4.48	ug/L	224	(70-130)		
DUP_202206010411	Triphenylphosphate ()			110	%	110	(70-130)		
LCS1	Triphenylphosphate (S)		5	106	%	106	(70-130)		
LCS2	Triphenylphosphate (S)		5	110	%	110	(70-130)		
MBLK	Triphenylphosphate (S)			110	%	110	(70-130)		
MRL_CHK	Triphenylphosphate (S)		5	104	%	104	(70-130)		
MS_202206010347	Triphenylphosphate (S)		5	120	%	120	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Eaton Analytical

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Laboratory Hits

Report: 1006145
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:
05/26/2022 1100

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
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SUMMARY OF POSITIVE DATA ONLY



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

Date: 06-14-2022
EMAX Batch No.: 22E300

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 1006145

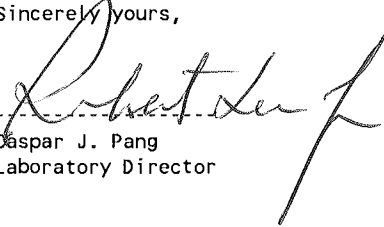
Enclosed is the Laboratory report for samples received on 05/27/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202205260925	E300-01	05/24/22	WATER	TPH GASOLINE TPH DIESEL & MOTOR OIL
202205260926	E300-02	05/24/22	WATER	TPH GASOLINE
202205260925MSD	E300-01S	05/24/22	WATER	TPH DIESEL
202205260925MS	E300-01M	05/24/22	WATER	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

*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder# 1006145 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

Ship To:
EMAX Laboratories, Inc.
3051 Fujita St.
Torrance, CA 90505

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

Folder #: 1006145
Report Due: 06/03/2022

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

Sample ID: 202205260925 (1) Client Sample ID for reference on! MOANALUA WELLS (331-223-TP202) Sample Date & Time Matrix: 05/24/22 1023 DW Clip Code: PWSID: JLS

Sample type: Sample Event: Analysis Requested: (SUB)Gas Fraction Hydrocarbons Facility ID: Sample Point ID: Static ID:

Method: SW 8015B EPA 5030C EPA 3550B TPH 8015 Diesel and Motor Oil

Sample ID: 202205260926 (2) Client Sample ID for reference on! TB:MOANALUA WELLS (331-223-TP202) Sample Date & Time Matrix: 05/24/22 1023 DW Clip Code: PWSID: JLS

Sample type: Sample Event: Analysis Requested: (SUB)Gas Fraction Hydrocarbons Facility ID: Sample Point ID: Static ID:

Method: SW 8015B EPA 5030C

Relinquished by: [Signature] Date: 5/27/22 Time: 1309
Received by: [Signature] Date: 5/27/22 Time: 1309
Relinquished by: [Signature] Date: _____ Time: _____
Received by: [Signature] Date: _____ Time: _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS
An Acknowledgement of Receipt is requested to attn: Jackie Contreras
Temp. 3.2/3.4 (1)
2.1/2.3 (3)



Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others	Airbill / Tracking Number	ECN <u>22E300</u>
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Recipient <u>Joselyn Zamora</u>
		Date <u>05/27/22</u> Time <u>3:09</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 checked="" type="checkbox"/> Matrix
<input checked="" 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 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	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler <u>3.2/3.4</u> °C	<input type="checkbox"/> Cooler 2 _____ °C	<input checked="" type="checkbox"/> Cooler <u>3.1/2.3</u> °C
	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C
Thermometer: <u>A - S/N 210583479</u>	<u>B - S/N _____</u>	<u>C - S/N 210271399</u>	<u>D - S/N _____</u>

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

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
<i>[Large diagonal scribble across the table]</i>				

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? YES NO

- 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 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 _____ |
| 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 _____ |

Continue to next page.

REVISIONS:

Sample Labeling Maria Rivera SRF [Signature] PM [Signature]
Date 05/27/22 Date 5/27/22 Date 6/1/22

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
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

1006145

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

SDG#: 22E300

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1006145

SDG : 22E300

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

A total of two(2) water samples were received on 05/27/22 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. VGH7E12B - 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. VGH7E12L/VGH7E12C 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 E281-01M/E281-01S. 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    : 1006145
SDG NO.   : 22E300
Instrument ID : H7
=====
  
```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Notes
	WATER							
MBLK1W	VGH7E12B	1	NA	05/27/2212:00	05/27/2212:00	AE27005A	AE27004A	22VGH7E12 Method Blank
LCS1W	VGH7E12L	1	NA	05/27/2212:35	05/27/2212:35	AE27006A	AE27004A	22VGH7E12 Lab Control Sample (LCS)
LCD1W	VGH7E12C	1	NA	05/27/2213:10	05/27/2213:10	AE27007A	AE27004A	22VGH7E12 LCS Duplicate
202205260925	E300-01	1	NA	05/27/2221:25	05/27/2221:25	AE27021A	AE27014A	22VGH7E12 Field Sample
202205260926	E300-02	1	NA	05/27/2222:01	05/27/2222:01	AE27022A	AE27014A	22VGH7E12 Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 05/24/22 10:23
Project     : 1006145                     Date Received: 05/27/22
Batch No.   : 22E300                       Date Extracted: 05/27/22 21:25
Sample ID   : 202205260925                Date Analyzed: 05/27/22 21:25
Lab Samp ID: E300-01                       Dilution Factor: 1
Lab File ID: AE27021A                       Matrix: WATER
Ext Btch ID: 22VGH7E12                     % Moisture: NA
Calib. Ref.: AE27014A                       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	0.0348	0.0400	87	60-140

Notes:

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

Detection limits are reported relative to sample result significant figures.
Sample Amount : 5ml 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: 05/24/22 10:23
Project     : 1006145                        Date Received: 05/27/22
Batch No.   : 22E300                         Date Extracted: 05/27/22 22:01
Sample ID   : 202205260926                  Date Analyzed: 05/27/22 22:01
Lab Samp ID: E300-02                         Dilution Factor: 1
Lab File ID: AE27022A                       Matrix: WATER
Ext Btch ID: 22VGH7E12                      % Moisture: NA
Calib. Ref.: AE27014A                       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	0.0346	0.0400	86	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: 05/27/22 12:00
Project     : 1006145                     Date Received: 05/27/22
Batch No.   : 22E300                      Date Extracted: 05/27/22 12:00
Sample ID   : MBLK1W                      Date Analyzed: 05/27/22 12:00
Lab Samp ID: VGH7E12B                    Dilution Factor: 1
Lab File ID: AE27005A                    Matrix: WATER
Ext Btch ID: 22VGH7E12                   % Moisture: NA
Calib. Ref.: AE27004A                    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	0.0355	0.0400	89	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 : 1006145
BATCH NO. : 22E300
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : MBLK1W                               LCS1W           LCD1W
LAB SAMPLE ID : VGH7E12B                           VGH7E12L       VGH7E12C
LAB FILE ID  : AE27005A                             AE27006A       AE27007A
DATE PREPARED : 05/27/22 12:00                       05/27/22 12:35 05/27/22 13:10
DATE ANALYZED : 05/27/22 12:00                       05/27/22 12:35 05/27/22 13:10
PREP BATCH   : 22VGH7E12                             22VGH7E12     22VGH7E12
CALIBRATION REF: AE27004A                             AE27004A       AE27004A
  
```

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	0.505	101	0.500	0.483	97	4	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0457	114	0.0400	0.0444	111	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 : 1005865
BATCH NO. : 22E281
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : 202205260045                        202205260045MS
LAB SAMPLE ID : E281-01                            E281-01M
LAB FILE ID  : AE27008A                            AE27009A
DATE PREPARED : 05/27/22 13:46                    05/27/22 14:21
DATE ANALYZED : 05/27/22 13:46                    05/27/22 14:57
PREP BATCH   : 22VGH7E12                          22VGH7E12
CALIBRATION REF: AE27004A                          AE27004A
=====
  
```

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	0.472	94	0.500	0.454	91	4	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0439	110	0.0400	0.0440	110	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

1006145

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22E300

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1006145

SDG : 22E300

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 05/27/22 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. DSE039WB - 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. DSE039WL/DSE039WC 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 22E300-01M/22E300-01S. 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
Project    : 1006145
SDG NO.    : 22E300
Instrument ID : D5
=====

```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Date/Time	Extraction Date/Time	WATER		Notes
						Sample Data FN	Calibration Data FN	
MBLK1W	DSE039WB	1	NA	06/01/2221:19	05/31/2213:30	LF01035A	LF01030A	22DSE039W Method Blank
LCS1W	DSE039WL	1	NA	06/01/2221:37	05/31/2213:30	LF01034A	LF01030A	22DSE039W Lab Control Sample (LCS)
LGD1W	DSE039WC	1	NA	06/01/2221:56	05/31/2213:30	LF01035A	LF01030A	22DSE039W LCS Duplicate
202205260925	E300-01	1	NA	06/01/2223:28	05/31/2213:30	LF01040A	LF01030A	22DSE039W Field Sample
202205260925MS	E300-01M	1	NA	06/01/2223:46	05/31/2213:30	LF01041A	LF01030A	22DSE039W Matrix Spike Sample (MS)
202205260925MSD	E300-01S	1	NA	06/02/2200:04	05/31/2213:30	LF01042A	LF01030A	22DSE039W MS Duplicate (MSD)

```

FN      - Filename
% Moist - Percent Moisture

```

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```
=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 05/24/22 10:23
Project     : 1006145                        Date Received:   05/27/22
Batch No.   : 22E300                         Date Extracted: 05/31/22 13:30
Sample ID   : 202205260925                  Date Analyzed:  06/01/22 23:28
Lab Samp ID: 22E300-01                      Dilution Factor: 1
Lab File ID: LF01040A                       Matrix: WATER
Ext Btch ID: 22DSE039W                      % Moisture: NA
Calib. Ref.: LF01030A                      Instrument ID: D5
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)		
Diesel	ND	0.026	0.013		
Motor Oil	ND	0.052	0.026		
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT	
Bromobenzene	0.595	0.525	113	60-130	
Hexacosane	0.149	0.131	114	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 : 950ml           Final Volume : 5ml
Prepared by   : POrreto        Analyzed by  : CMpang
```

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 05/31/22 13:30
Project    : 1006145                     Date Received: 05/31/22
Batch No.  : 22E300                       Date Extracted: 05/31/22 13:30
Sample ID  : MBLK1W                       Date Analyzed: 06/01/22 21:19
Lab Samp ID: DSE039WB                     Dilution Factor: 1
Lab File ID: LF01033A                     Matrix: WATER
Ext Btch ID: 22DSE039W                   % Moisture: NA
Calib. Ref.: LF01030A                    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	0.532	0.500	106	60-130
Hexacosane	0.129	0.125	103	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 : POrto Analyzed by : CMpang

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 1006145
BATCH NO. : 22E300
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W           LCD1W
LAB SAMPLE ID : DSE039WB                         DSE039WL       DSE039WC
LAB FILE ID  : LF01033A                         LF01034A       LF01035A
DATE PREPARED : 05/31/22 13:30                 05/31/22 13:30 05/31/22 13:30
DATE ANALYZED : 06/01/22 21:19                 06/01/22 21:37 06/01/22 21:56
PREP BATCH   : 22DSE039W                       22DSE039W      22DSE039W
CALIBRATION REF: LF01030A                       LF01030A       LF01030A
  
```

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.59	104	2.50	2.37	95	9	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.620	124	0.500	0.480	96	60-130
Hexacosane	0.125	0.127	102	0.125	0.138	110	60-130

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 : 1006145
BATCH NO. : 22E300
METHOD : 3520C/8015B

```

=====
MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1 1
SAMPLE ID : 202205260925 202205260925MSD 202205260925MSD
LAB SAMPLE ID : 22E300-01 22E300-01M 22E300-01S
LAB FILE ID : LF01040A LF01041A LF01042A
DATE PREPARED : 05/31/22 13:30 05/31/22 13:30 05/31/22 13:30
DATE ANALYZED : 06/01/22 23:28 06/01/22 23:46 06/02/22 00:04
PREP BATCH : 22DSE039W 22DSE039W 22DSE039W
CALIBRATION REF: LF01030A LF01030A LF01030A
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.65	3.15	119	2.70	2.85	106	10	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.530	0.638	120	0.540	0.611	113	60-130
Hexacosane	0.132	0.153	115	0.135	0.146	108	60-130

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