

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

Laboratory Report

for

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

Date of Issue

12/22/2024


EUROFINS EATON
ANALYTICAL, LLC

Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List (Albuquerque+)

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

* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.

* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.

* Test results relate only to the sample(s) tested.

* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).

* This report shall not be reproduced except in full, without the written approval of the laboratory.

* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

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

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

<https://www.eurofinsus.com/Eaton>

Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x
<i>Escherichia coli</i> (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	
<i>Pseudomonas aeruginosa</i>	Idexx Pseudalart	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/Microcystin	* 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-CI 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 Disinfection 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 #: 974932
 Project: RED-HILL
 Sample Group: Red-Hill Expanded List
 (Albuquerque+)
 Project Manager: Debbie L Frank
 Phone: (626) 386-1149
 PO #: C20525101 exp 05312023

The following samples were received from you on **December 14, 2021 at 1310**. 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>202112140293</u>	Pearl City I	12/13/2021 1123
	@625A_Physis C @625BN_Physis C @625PAH_Physis_TICS_C @8015 Ethanol_Subbed @VOASDWA C plus plus TICs C (SUB)Gas Fraction Hydrocarbons Miscellaneous Charges TPH 8015 Diesel and Motor Oil TPH 8015 Jet Fuel 5 TPH 8015 Jef Fuel 8	
<u>202112140294</u>	TRAVEL BLANK	12/13/2021 1123
	@VOASDWA C plus plus TICs TBC (SUB)Gas Fraction Hydrocarbons	
<u>202112140295</u>	Pearl City Shaft	12/13/2021 1155
	@625A_Physis C @625BN_Physis C @625PAH_Physis_TICS_C @8015 Ethanol_Subbed @VOASDWA C plus plus TICs C (SUB)Gas Fraction Hydrocarbons Miscellaneous Charges TPH 8015 Diesel and Motor Oil TPH 8015 Jet Fuel 5 TPH 8015 Jef Fuel 8	
<u>202112140296</u>	TRAVEL BLANK	12/13/2021 1155
	@VOASDWA C plus plus TICs TBC (SUB)Gas Fraction Hydrocarbons	
<u>202112170202</u>	RUSH	12/13/2021 11:55
	RUSH	

Test Description

@625A_Physis C -- 625 Acid Extractable in ug/L
 @625BN_Physis C -- 625 Base Neutral Extractable in ug/L
 @625PAH_Physis_TICS_C -- 625PAH in ug/L
 @8015 Ethanol_Subbed -- Ethanol
 @VOASDWA C plus plus TICs C -- Volatile Organics by GCMS
 @VOASDWA C plus plus TICs TBC -- Volatile Organics by GCMS

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

Kit #: 305992

Created By: Debbie L Frank - [DEB]
Deliver By: 11/30/2021
STG: Bottle Orders
Ice Type: G
Pre Registered

Kit Order for Honolulu Board of Water Supply
Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager

Note: Sampler Please return this paper with your samples

Client ID: HONOLULU

Project Code: RED-HILL Bottle Orders

Group Name: Red-Hill Expanded List (Albuquerque+)

PO#/JOB#: C20525101 exp 05312023

Description: HALAWA SHAFT - Every 3 months

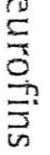
Ship Sample Kits to
Honolulu Board of Water Supply
630 South Beretania Street
Chemistry Lab
Honolulu, HI 96843
Attn: Ron Fenstermacher
Phone: 808-748-5841
Fax: 808-550-5572

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 #
1	Chloride, Nitrate, Nitrite, Ammonia, Nitrogen by IC, Sulfate	1 - 125ml poly [no preservative]	1	
1	@625A Physis C, @625BN Physis C, @625PAH Physis TICs, C	8 - 1L amber glass [1 ml Thio 8%]	8	
1	TPH 8015 Diesel and Motor Oil, C, TPH 8015 Jet Fuel 5, C, TPH 8015 Jet Fuel 8, C	8 - 1L amber glass [1 ml Thio 8%]	8	
1	@525PLUS C PLUS TICs	3 - 1L amber glass [45mg Sulfite-xis+1 vial 2 ml 6N HCL]	3	UN1789
1	Fluoride	1 - 250ml poly [no preservative]	1	
1	Alkalinity in CaCO3 units, PH (H3-past HT - not compliant), Specific Conductance	1 - 250ml poly [no preservative]	1	
1	@VOA-TBA-C	4 - 40 ml VOA vial [25 mg AA + drop 2ml 1:1 HCL]	4	UN1789
1	@504MOD-G	3 - 40ml amber glass vial [1 drop Thio (8%)]	3	
1	@505-EAL-@ML505	4 - 40ml amber glass vial [1 drop Thio (8%)]	4	
1	8015 Gas, C	3 - 40ml amber glass vial [1 drop Thio (8%)]	3	
1	@504MOD-TB-G	2 - 40ml amber glass vial [1 drop Thio (8%) + H2O]	2	
1	8015 Gas, G-IR	2 - 40ml amber glass vial [1 drop Thio (8%) + H2O]	2	
1	@VOASDWA-C plus plus TICs TBC	3 - 40ml amber glass vial [25mg AA+ H2O+10 drop 1:1 HCL]	3	UN1789
1	@VOASDWA C plus plus TICs C	3 - 40ml amber glass vial [25mg Ascorbic+drop 2ml 1:1 HCL]	3	UN1789
1	@8015 Ethanol, Subbed	4 - 40ml amber glass vial [no preservative]	4	
1	@VOA-TBA-TBC	2 - 40ml amber glass vial [TBA, 25mg AA+ H2O+10 drop 1:1 HCL]	2	
1	@ICPMS-Gelium Total ICAP, Magnesium Total ICAP, Mercury ICPMS, Potassium Total ICAP, Sodium Total ICAP	1 - 500ml acid poly [2ml HNO3 (18%)]	1	UN2031
1	Total Dissolved Solid (TDS)	1 - 500ml poly [no preservative]	1	
1	Bromide by 300.0	1 - 60ml poly [0.3 mL 1% EDA solution]	1	
Sum Tests: 19			Sum Bottles: 55	

Comments



INTERNAL CHAIN OF CUSTODY RECORD

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

TYPE OF ICE: Real ☐ Synthetic ☒ No Ice ☒

CONDITION OF ICE: Frozen ☒ Partially Frozen ☐ Thawed ☐ N/A ☐

Compliance Acceptance Criteria:

- 1) Chemistry: >0 , $\leq 6^{\circ}\text{C}$, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: $< 10^{\circ}\text{C}$, not frozen (can be $\geq 10^{\circ}\text{C}$ if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: $< 10^{\circ}\text{C}$ (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: Samsafe. Lot No.: _____ Expiration Date: _____ Results: _____

No Samples with Headspace:

Samples with Headspace (see below):

Exempt from headspace concerns: Methods 515.1, HAA(6251.552), 505, SPME, @CH, 533L/CMS, 556, 536, Arotoxlin, LC/MS methods using 40 μ l vials, international clients: Non9/16, Non9/16/5

Samp ID	Bottle #	None/ < 6mm	Test
		mm	

Samp ID	Boile #	mm	>6mm	Test
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Samp ID	Bottle #	mm	> 6mm	1st

Caliper ID	Device #	mm	in	mm	in

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

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Eurolife Ealon Analytical		

RECEIVED BY:

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	IME
		Eurofine Ealon Analytical		

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

SHIP DATE: 13DEC21
ACTWGT: 62.00 LB
CAD: 100205419/NET4400

BILL RECIPIENT

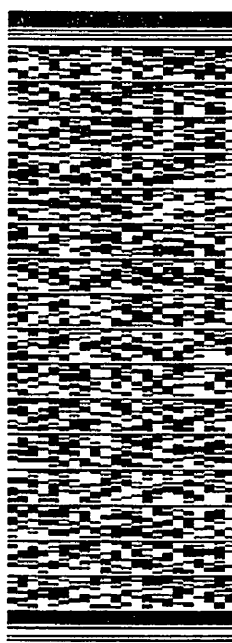
TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100

MONROVIA CA 91016

(626) 386-1178
REF
PO INV

DEPT



J212221101801uv

56DJ3/E934/FE4A

7 of 7

MP# 7754 8154 0720

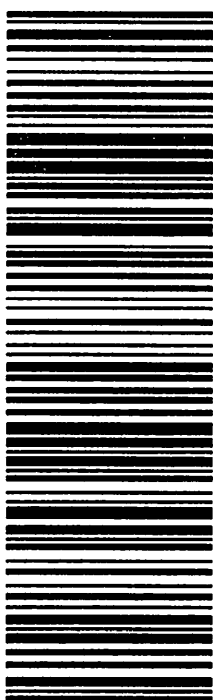
Mstr# 7754 8154 0319

0201

TUE - 14 DEC 11:30A
PRIORITY OVERNIGHT

WZ WHPA

CA-US 91016
BUR

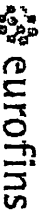


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Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

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 = 031A (Observation = 3-0 °C) (Corr. Factor -0.2 °C) (Final = 2.8 °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 quadrant

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

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

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

6) Chlorine check. Manufacturer: Sensafe. 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, 538, Analoxin, LCMS methods using 40 ml vials, International clients:

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

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

RECEIVED BY: SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	Joe Snuchner	Eurofins Eaton Analytical	12/14/21	1306
SAMPLES CHECKED AGAINST COC BY: SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Eurofins Eaton Analytical		

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

SHIP DATE: 13DEC21
 ACTWTG: 62.00 LB
 CAD: 100205419/NET4400

BILL RECIPIENT

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC

750 ROYAL OAKS DR

SUITE 100

MONROVIA CA 91016

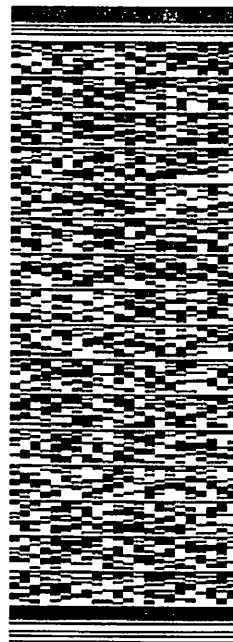
(626) 386-1178

REF

PO

DEPT

56DJ3/E934/FE4A



5 of 7

MPS#

0263 7754 8154 0227

Mstr# 7754 8154 0319

0201

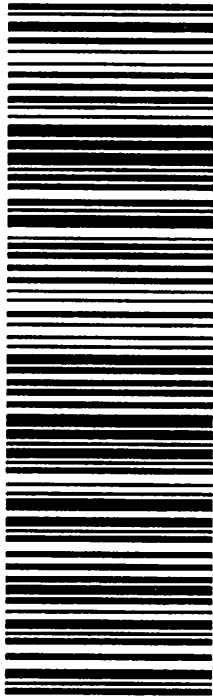
PRIORITY OVERNIGHT

TUE - 14 DEC 11:30A

WZ WHPA

CA-US

91016 BUR



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

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

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 = 631A (Observation = 3.1 °C) (Corr. Factor -0.2 °C) (Final = -2.9 °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 , $\leq 6^{\circ}\text{C}$, not frozen (NELAP) (if received after 24 hrs of sample collection)

- 2) Microbiology, Distribution: $< 10^{\circ}\text{C}$, not frozen (can be $\geq 10^{\circ}\text{C}$ 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 = (Observations = _____ 'C) (Conf.Factor = _____ 'C) (Final = _____ 'C)	2 = (Observations = _____ 'C) (Conf.Factor = _____ 'C) (Final = _____ 'C)
3 = (Observations = _____ 'C) (Conf.Factor = _____ 'C) (Final = _____ 'C)	4 = (Observations = _____ 'C) (Conf.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: Samsafe. Lot No.: _____ Expiration Date: _____ Results: _____

- VOA and Radon
7) Headspace:

No Samples with Headspace:

Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

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

Samp ID	Bottle #	Notes	>6mm	Test
			mm	

Sample	Boiler #	mm	>6mm	100
1	2	3	4	5

Salinidade	Profundidade	Temperatura	Pressão
35	0	25.0	1.0
35	10	24.5	1.1
35	20	24.0	1.2
35	30	23.5	1.3
35	40	23.0	1.4
35	50	22.5	1.5
35	60	22.0	1.6
35	70	21.5	1.7
35	80	21.0	1.8
35	90	20.5	1.9
35	100	20.0	2.0

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

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	Elinor E. Elinor	Elinor E. Elinor	10/11/11	12:27

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Everflow Sales Analyst		

SAMPLES CHECKED AGAINST COC BY:

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

SHIP DATE: 13DEC21
 ACTWGT: 62.00 LB
 CAD: 100205419/NET 4400

BILL RECIPIENT

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
 750 ROYAL OAKS DR
 SUITE 100

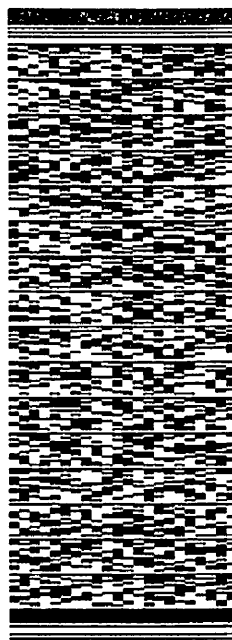
MONROVIA CA 91016

(626) 386-1178

REF

PO

DEPT



56DJ3/E934/FE4A

TUE - 14 DEC 11:30A

PRIORITY OVERNIGHT

6 of 7

MPS# 7754 8154 0547

0263

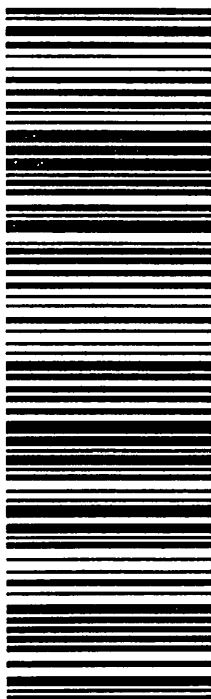
Mstr# 7754 8154 0319

0201

WZ WHPA

CA-US

91016
BUR



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

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

Folder Comments

Results for Gas, Diesel, Motor Oil, Jet Fuels and Ethanol are submitted by Emax Laboratories, Inc.
Results for 625 PAHs, Acids and BNAs are submitted by Physis Environmental in Anaheim 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.

@625mod (Low Level SVOCs by GCMS (PAH/BNA - Base/Neutral/Acid Extractables)
See subcontractor's report. Physis reports TICs in addendum report titled Total Ion Chromatogram.

@524.2 (VOC by GCMS)

202112140293	524.2	TICs	None Detected
202112140294	524.2	TICs	
Compound Name		Estimated Retention Time	Estimated Concentration
Unknown compound		1.305 minutes	2.80 ug/L
Furfural	9.584 minutes		3.62 ug/L

202112140295	524.2	TICs	None Detected
202112140296	524.2	TICs	
Compound Name		Estimated Retention Time	Estimated Concentration
Unknown compound		1.305 minutes	2.42 ug/L
Furfural	9.584 minutes		1.35 ug/L

Project change per communication with Erwin Kawata, 071718
Ethanol - ELLE method 1671 2000 ug/L. EMAX method 8015, RL 2000 ug/L. MRLs are the same.
MTBE - 524.3 0.02 ug/L (20 ng/L) is not reported, method decommissioned. See 524.2 at elevated RL of 0.5 ug/L.
TBA - 524.3 1 ug/L is not reported, method decommissioned. See 524.2 at elevated RL of 2 ug/L
ACETONE MRL elevated to 500 due to matrix artifact of preservation, project spec change
Erwin Kawata. 021821

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Laboratory Comments

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Flags Legend:

FB - Target analyte detected in TB > MRL but sample is ND.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

VC - CCV is high biased, ND data are reportable as per TNI V1M4 1.7.2.e).i.

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Laboratory Hits

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 (Albuquerque+)

Honolulu Board of Water Supply
 Erwin Kawata
 630 South Beretania Street
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Samples Received on:
 12/14/2021 1310

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
12/19/2021 00:00	202112140293 Benzoic acid	<u>Pearl City I</u>	0.501		ug/L	0.2
12/19/2021 00:00	202112140295 Benzoic acid	<u>Pearl City Shaft</u>	0.594		ug/L	0.2

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Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
Pearl City I (202112140293)						Sampled on 12/13/2021 1123			
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
12/15/21	12/15/21 15:51			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
12/15/21	12/16/21 14:58			(SW 8015B)	TPH Diesel	ND	mg/L	0.027	1
12/15/21	12/16/21 14:58			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.053	1
EPA 8015 - Jet Fuel 5 C8-C18									
12/15/21	12/16/21 14:58			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.053	1
EPA 625 - 625PAH in ug/L									
12/14/21	12/19/21 00:00			(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	2,4,6-Trichlorophenol	NA	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Acenaphthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Anthracene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Chrysene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Fluoranthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Pentachlorophenol	NA	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	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.

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Laboratory Data

Report: 974932
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(Albuquerque+)

Honolulu Board of Water Supply
Erwin Kawata
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Honolulu, HI 96843

Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/19/21 00:00			(EPA 625)	Pyrene	ND	ug/L	0.005	1
EPA 8015 - Jet Fuel 8 C8-C18									
	12/16/21 14:58			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.053	1
EPA 625 - 625 Acid Extractable in ug/L									
12/14/21	12/19/21 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzoic acid	0.501	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1
12/14/21	12/19/21 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
EPA 625 - 625 Base Neutral Extractable in ug/L									
	12/19/21 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1

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12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
	12/19/21 00:00			(EPA 625)	Disalicylideneopropanediamine	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
SW8015C - Ethanol									
	12/15/21 13:03			(SW8015C)	Ethanol	ND	ug/L	2000	1
EPA 524.2 - Volatile Organics by GCMS									
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Acetone	ND (FB)	ug/L	500	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1

Rounding on totals after summation.

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

Laboratory Data

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

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

Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Dichlorodifluoromethane	ND (VC,LK)	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1

Rounding on totals after summation.

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Laboratory Data

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
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Honolulu, HI 96843

Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane-d4	101	%		1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	4-Bromofluorobenzene	106	%		1
12/14/21	12/14/21 19:38	1373722	1373729	(EPA 524.2)	Toluene-d8	98	%		1

TRAVEL BLANK (202112140294)

Sampled on 12/13/2021 1123

SW 8015B - (SUB)Gas Fraction Hydrocarbons

12/15/21	12/15/21 17:42		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
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EPA 524.2 - Volatile Organics by GCMS

12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Acetone	ND	ug/L	500	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1

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Laboratory Data

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(Albuquerque+)

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
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Honolulu, HI 96843

Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Dichlorodifluoromethane	ND (VC,LK)	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1

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Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane-d4	103	%		1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	4-Bromofluorobenzene	112	%		1
12/14/21	12/14/21 20:00	1373722	1373729	(EPA 524.2)	Toluene-d8	96	%		1

Pearl City Shaft (202112140295)

Sampled on 12/13/2021 1155

SW 8015B - (SUB)Gas Fraction Hydrocarbons

12/15/21	12/15/21 18:19	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
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SW 8015B - TPH 8015 Diesel and Motor Oil

12/15/21	12/16/21 17:02	(SW 8015B)	TPH Diesel	ND	mg/L	0.026	1
12/15/21	12/16/21 17:02	(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1

EPA 8015 - Jet Fuel 5 C8-C18

12/15/21	12/16/21 17:02	(EPA 8015)	Jet Fuel 5	ND	mg/L	0.052	1
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EPA 625 - 625PAH in ug/L

12/14/21	12/19/21 00:00	(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	2,4,6-Trichlorophenol	NA	ug/L	0.1	1
12/14/21	12/19/21 00:00	(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Acenaphthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Anthracene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00	(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1

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Laboratory Data

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

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

Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Chrysene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Fluoranthene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Pentachlorophenol	NA	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	1
12/14/21	12/19/21 00:00			(EPA 625)	Pyrene	ND	ug/L	0.005	1
EPA 8015 - Jet Fuel 8 C8-C18									
	12/16/21 17:02			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.052	1
EPA 625 - 625 Acid Extractable in ug/L									
	12/19/21 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Benzoic acid	0.594	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
	12/19/21 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
	12/19/21 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1

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	12/19/21 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
EPA 625 - 625 Base Neutral Extractable in ug/L									
12/14/21	12/19/21 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Disalicylideneopropanediamine	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
12/14/21	12/19/21 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
SW8015C - Ethanol									
	12/15/21 13:44			(SW8015C)	Ethanol	ND	ug/L	2000	1
EPA 524.2 - Volatile Organics by GCMS									
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1

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12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Acetone	ND (FB)	ug/L	500	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Dichlorodifluoromethane	ND (VC,LK)	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1

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12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane-d4	99	%		1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	4-Bromofluorobenzene	107	%		1
12/14/21	12/14/21 20:22	1373722	1373729	(EPA 524.2)	Toluene-d8	95	%		1

TRAVEL BLANK (202112140296)

Sampled on 12/13/2021 1155

SW 8015B - (SUB)Gas Fraction Hydrocarbons

12/15/21	12/15/21 18:55		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
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EPA 524.2 - Volatile Organics by GCMS

12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1

Rounding on totals after summation.

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1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

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

Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Acetone	ND	ug/L	500	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Dichlorodifluoromethane	ND (VC,LK)	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1

Rounding on totals after summation.

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Laboratory Data

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
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Samples Received on:
12/14/2021 1310

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	1,2-Dichloroethane-d4	101	%		1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	4-Bromofluorobenzene	109	%		1
12/14/21	12/14/21 20:44	1373722	1373729	(EPA 524.2)	Toluene-d8	94	%		1

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Laboratory QC Summary

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply

Volatile Organics by GCMS

Prep Batch: 1373722 Analytical Batch: 1373729

202112140293	Pearl City I
202112140294	TRAVEL BLANK
202112140295	Pearl City Shaft
202112140296	TRAVEL BLANK

Analysis Date: 12/14/2021

Analyzed by: KCP
Analyzed by: KCP
Analyzed by: KCP
Analyzed by: KCP

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Report: 974932
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
Volatile Organics by GCMS by EPA 524.2									
Analytical Batch: 1373729					Analysis Date: 12/14/2021				
LCS1	1,1,1,2-Tetrachloroethane		5	4.90	ug/L	98	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.77	ug/L	95	(70-130)	20	2.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.380	ug/L	76	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.59	ug/L	92	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.61	ug/L	92	(70-130)	20	0.44
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.400	ug/L	80	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	5.09	ug/L	102	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.87	ug/L	97	(70-130)	20	4.4
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,1,2-Trichloroethane		5	4.51	ug/L	90	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.41	ug/L	88	(70-130)	20	2.2
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.410	ug/L	82	(50-150)		
LCS1	1,1-Dichloroethane		5	5.14	ug/L	103	(70-130)		
LCS2	1,1-Dichloroethane		5	5.09	ug/L	102	(70-130)	20	0.98
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.42	ug/L	108	(70-130)		
LCS2	1,1-Dichloroethylene		5	5.47	ug/L	109	(70-130)	20	0.92
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloropropene		5	5.03	ug/L	101	(70-130)		
LCS2	1,1-Dichloropropene		5	4.82	ug/L	96	(70-130)	20	4.3
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.68	ug/L	94	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.56	ug/L	91	(70-130)	20	2.6
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2,3-Trichloropropane		5	4.65	ug/L	93	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.78	ug/L	96	(70-130)	20	2.8
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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: 974932
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(Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	1,2,3-Trichloropropane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.94	ug/L	99	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.61	ug/L	92	(70-130)	20	6.9
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	5.49	ug/L	110	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.16	ug/L	103	(70-130)	20	6.2
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,2-Dichloroethane		5	5.00	ug/L	100	(70-130)		
LCS2	1,2-Dichloroethane		5	4.92	ug/L	98	(70-130)	20	1.6
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	99.2	%	99	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	98.0	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	102	%	102	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)		5	99.2	%	99	(70-130)		
LCS1	1,2-Dichloropropane		5	4.94	ug/L	99	(70-130)		
LCS2	1,2-Dichloropropane		5	4.91	ug/L	98	(70-130)	20	0.61
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	5.61	ug/L	112	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.37	ug/L	107	(70-130)	20	4.4
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,3-Dichloropropane		5	4.60	ug/L	92	(70-130)		
LCS2	1,3-Dichloropropane		5	4.48	ug/L	90	(70-130)	20	2.6
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.450	ug/L	90	(50-150)		
LCS1	2,2-Dichloropropane		5	4.71	ug/L	94	(70-130)		
LCS2	2,2-Dichloropropane		5	4.67	ug/L	93	(70-130)	20	0.85
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	2-Butanone (MEK)		50	45.9	ug/L	92	(70-130)		
LCS2	2-Butanone (MEK)		50	45.8	ug/L	92	(70-130)	20	0.22
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	4.81	ug/L	96	(50-150)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	2-Hexanone		50	38.6	ug/L	77	(70-130)		
LCS2	2-Hexanone		50	38.1	ug/L	76	(70-130)	20	1.6
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5	3.42	ug/L	68	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	107	%	107	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	106	%	106	(70-130)		
MBLK	4-Bromofluorobenzene (S)			105	%	105	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	106	%	106	(70-130)		
MRL_W	4-Bromofluorobenzene (S)		5	107	%	107	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	40.6	ug/L	81	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	39.7	ug/L	79	(70-130)	20	2.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<5.0	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	3.63	ug/L	73	(50-150)		
LCS1	Acetone		50	46.7	ug/L	93	(70-130)		
LCS2	Acetone		50	46.3	ug/L	93	(70-130)	20	0.86
MBLK	Acetone			<10	ug/L				
MRL_CHK	Acetone		5	5.27	ug/L	105	(50-150)		
LCS1	Benzene		5	5.05	ug/L	101	(70-130)		
LCS2	Benzene		5	4.93	ug/L	99	(70-130)	20	2.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5	5.44	ug/L	109	(70-130)		
LCS2	Bromobenzene		5	5.21	ug/L	104	(70-130)	20	4.3
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromochloromethane		5	5.12	ug/L	102	(70-130)		
LCS2	Bromochloromethane		5	5.04	ug/L	101	(70-130)	20	1.6
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromodichloromethane		5	4.66	ug/L	93	(70-130)		
LCS2	Bromodichloromethane		5	4.55	ug/L	91	(70-130)	20	2.4
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.410	ug/L	82	(50-150)		
LCS1	Bromoethane		5	5.21	ug/L	104	(70-130)		
LCS2	Bromoethane		5	5.07	ug/L	101	(70-130)	20	2.7
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromoform		5	4.90	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Bromoform		5	4.32	ug/L	86	(70-130)	20	13
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	6.27	ug/L	125	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	6.15	ug/L	123	(70-130)	20	1.9
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.590	ug/L	118	(50-150)		
LCS1	Carbon disulfide		5	5.05	ug/L	101	(70-130)		
LCS2	Carbon disulfide		5	4.90	ug/L	98	(70-130)	20	3.0
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.430	ug/L	86	(50-150)		
LCS1	Carbon Tetrachloride		5	4.97	ug/L	99	(70-130)		
LCS2	Carbon Tetrachloride		5	4.88	ug/L	98	(70-130)	20	1.8
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.400	ug/L	80	(50-150)		
LCS1	Chlorobenzene		5	5.14	ug/L	103	(70-130)		
LCS2	Chlorobenzene		5	4.93	ug/L	99	(70-130)	20	4.2
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chlorodibromomethane		5	4.49	ug/L	90	(70-130)		
LCS2	Chlorodibromomethane		5	4.39	ug/L	88	(70-130)	20	2.3
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloroethane		5	5.60	ug/L	112	(70-130)		
LCS2	Chloroethane		5	5.51	ug/L	110	(70-130)	20	1.6
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	4.79	ug/L	96	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.81	ug/L	96	(70-130)	20	0.42
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.460	ug/L	92	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	5.69	ug/L	114	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	5.81	ug/L	116	(70-130)	20	2.1
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.640	ug/L	128	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	5.27	ug/L	105	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	5.16	ug/L	103	(70-130)	20	2.1
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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.

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Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.50	ug/L	90	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.45	ug/L	89	(70-130)	20	1.1
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.320	ug/L	64	(50-150)		
LCS1	Dibromomethane		5	4.71	ug/L	94	(70-130)		
LCS2	Dibromomethane		5	4.49	ug/L	90	(70-130)	20	4.8
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.410	ug/L	82	(50-150)		
LCS1	Dichlorodifluoromethane		5	7.32	ug/L	<u>146</u>	(70-130)		
LCS2	Dichlorodifluoromethane		5	7.17	ug/L	<u>143</u>	(70-130)	20	2.1
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Dichloromethane		5	5.53	ug/L	111	(70-130)		
LCS2	Dichloromethane		5	5.29	ug/L	106	(70-130)	20	4.4
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Di-isopropyl ether		5	4.95	ug/L	99	(70-130)		
LCS2	Di-isopropyl ether		5	4.97	ug/L	99	(70-130)	20	0.40
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.510	ug/L	102	(50-150)		
LCS1	Ethyl benzene		5	4.90	ug/L	98	(70-130)		
LCS2	Ethyl benzene		5	4.79	ug/L	96	(70-130)	20	2.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Hexachlorobutadiene		5	4.97	ug/L	99	(70-130)		
LCS2	Hexachlorobutadiene		5	4.65	ug/L	93	(70-130)	20	6.7
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Isopropylbenzene		5	5.65	ug/L	113	(70-130)		
LCS2	Isopropylbenzene		5	5.55	ug/L	111	(70-130)	20	1.8
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	m,p-Xylenes		10	9.62	ug/L	96	(70-130)		
LCS2	m,p-Xylenes		10	9.51	ug/L	95	(70-130)	20	1.1
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.810	ug/L	81	(50-150)		
MRLWL	m,p-Xylenes		0.5	0.450	ug/L	90	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	m-Dichlorobenzene (1,3-DCB)		5	5.78	ug/L	116	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	5.30	ug/L	106	(70-130)	20	8.7
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.65	ug/L	93	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.66	ug/L	93	(70-130)	20	0.22
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.480	ug/L	96	(50-150)		
LCS1	Naphthalene		5	4.23	ug/L	85	(70-130)		
LCS2	Naphthalene		5	4.11	ug/L	82	(70-130)	20	2.9
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.390	ug/L	78	(50-150)		
LCS1	n-Butylbenzene		5	4.79	ug/L	96	(70-130)		
LCS2	n-Butylbenzene		5	4.49	ug/L	90	(70-130)	20	6.5
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	n-Propylbenzene		5	5.64	ug/L	113	(70-130)		
LCS2	n-Propylbenzene		5	5.49	ug/L	110	(70-130)	20	2.7
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	o-Chlorotoluene		5	5.75	ug/L	115	(70-130)		
LCS2	o-Chlorotoluene		5	5.28	ug/L	106	(70-130)	20	8.5
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	5.07	ug/L	101	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.76	ug/L	95	(70-130)	20	6.3
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.500	ug/L	100	(50-150)		
LCS1	o-Xylene		5	4.89	ug/L	98	(70-130)		
LCS2	o-Xylene		5	4.84	ug/L	97	(70-130)	20	1.0
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.410	ug/L	82	(50-150)		
LCS1	p-Chlorotoluene		5	5.84	ug/L	117	(70-130)		
LCS2	p-Chlorotoluene		5	5.41	ug/L	108	(70-130)	20	7.6
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	5.59	ug/L	112	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	5.31	ug/L	106	(70-130)	20	5.1

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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.

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Report: 974932
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(Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Isopropyltoluene		5	5.52	ug/L	110	(70-130)		
LCS2	p-Isopropyltoluene		5	5.28	ug/L	106	(70-130)	20	4.4
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.440	ug/L	88	(50-150)		
LCS1	sec-Butylbenzene		5	5.60	ug/L	112	(70-130)		
LCS2	sec-Butylbenzene		5	5.34	ug/L	107	(70-130)	20	4.8
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Styrene		5	4.89	ug/L	98	(70-130)		
LCS2	Styrene		5	4.78	ug/L	96	(70-130)	20	2.3
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.400	ug/L	80	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.39	ug/L	88	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.49	ug/L	90	(70-130)	20	2.3
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.450	ug/L	90	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	5.07	ug/L	101	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.08	ug/L	102	(70-130)	20	0.20
MBLK	tert-Butyl Ethyl Ether			<3.0	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.480	ug/L	96	(50-150)		
LCS1	tert-Butylbenzene		5	5.51	ug/L	110	(70-130)		
LCS2	tert-Butylbenzene		5	5.23	ug/L	105	(70-130)	20	5.2
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	4.97	ug/L	99	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.93	ug/L	99	(70-130)	20	0.81
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.430	ug/L	86	(50-150)		
LCS1	Toluene		5	4.71	ug/L	94	(70-130)		
LCS2	Toluene		5	4.60	ug/L	92	(70-130)	20	2.4
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Toluene-d8 (S)		5	96.6	%	97	(70-130)		
LCS2	Toluene-d8 (S)		5	101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			93.6	%	94	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	96.0	%	96	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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.

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Report: 974932
Project: RED-HILL
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRLW	Toluene-d8 (S)		5	95.6	%	96	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	5.16	ug/L	103	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	5.08	ug/L	102	(70-130)	20	1.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	3.93	ug/L	79	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	3.70	ug/L	74	(70-130)	20	6.0
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.600	ug/L	120	(50-150)		
LCS1	Trichloroethylene (TCE)		5	5.11	ug/L	102	(70-130)		
LCS2	Trichloroethylene (TCE)		5	5.07	ug/L	101	(70-130)	20	0.79
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Trichlorofluoromethane		5	5.45	ug/L	109	(70-130)		
LCS2	Trichlorofluoromethane		5	5.31	ug/L	106	(70-130)	20	2.6
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.61	ug/L	112	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	5.49	ug/L	110	(70-130)	20	2.2
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.490	ug/L	98	(50-150)		
LCS1	Vinyl chloride (VC)		5	6.03	ug/L	121	(70-130)		
LCS2	Vinyl chloride (VC)		5	6.19	ug/L	124	(70-130)	20	2.6
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.590	ug/L	118	(50-150)		
MRLW	Vinyl chloride (VC)		0.25	0.230	ug/L	92	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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.

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Laboratory Hits

Report: 974932
Project: RED-HILL
Group: Red-Hill Expanded List
(Albuquerque+)

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
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Honolulu, HI 96843

Samples Received on:
12/14/2021 1310

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
12/19/2021 00:00	202112140293 Benzoic acid	<u>Pearl City I</u>	0.501		ug/L	0.2
12/19/2021 00:00	202112140295 Benzoic acid	<u>Pearl City Shaft</u>	0.594		ug/L	0.2



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

Date: 12-21-2021
EMAX Batch No.: 21L153

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 974932

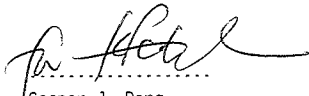
Enclosed is the Laboratory report for samples received on 12/14/21.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202112140293	L153-01	12/13/21	WATER	ETHANOL TPH GASOLINE TPH
202112140294	L153-02	12/13/21	WATER	TPH GASOLINE
202112140295	L153-03	12/13/21	WATER	ETHANOL TPH GASOLINE TPH
202112140296	L153-04	12/13/21	WATER	TPH GASOLINE
202112140293MS	L153-01M	12/13/21	WATER	ETHANOL TPH GASOLINE TPH
202112140293MSD	L153-01S	12/13/21	WATER	ETHANOL TPH GASOLINE TPH

The results are summarized on the following pages.

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

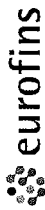
Sincerely yours,


Caspar J. Pang
Laboratory Director

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

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

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



Eaton Analytical

Ship To:

EMAX Laboratories, Inc.
3051 Fujita St.

Torrance, CA 90505

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

Folder #: 974932 Report Due: 12/17/2021

Submittal Form

21153

Date: 12/14/2021

*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # 974932 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.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com

Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
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

RUSH

Sample ID	Client Sample ID for reference onl	Sample	Date & Time	Matrix	Clip Code	PWSID
202112140293	Pearl City 1		12/13/21	1123 DW		JLS
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:		

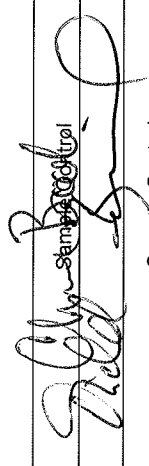
Method

Method	Prep Method	Analysis Requested
SW8015C		Ethanol
SW 8015B	EPA 5030C	(SUB)Gas Fraction Hydrocarbons
SW 8015B	EPA 3550B	TPH 8015 Diesel and Motor Oil
EPA 8015	EPA 8015	Jet Fuel 5 C8-C18
EPA 8015		Jet Fuel 8 C8-C18

Sample ID	Client Sample ID for reference onl	Sample	Date & Time	Matrix	Clip Code	PWSID
202112140294	TRAVEL BLANK		12/13/21	1123 DW		JLS
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:		

Method

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

Relinquished by:  Date: 12-14-21 Time: 1526
 Received by:  Date: 12-14-21 Time: 1600
 Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Temp: 00.8° 00.7° 00.3° 00.4°

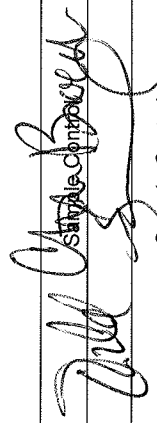
Page 1 of 4

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

REPORT ID: 21L153

Page 2 of 51

Sample ID 202112140295	Client Sample ID for reference onl Pearl City Shaft	Sample Date & Time 12/13/21 1155 DW	Clip Code	PWSID JLS
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:
Method SW8015C	Prep Method EPA 5030C	Analysis Requested Ethanol		
SW 8015B	EPA 5030C	(SUB)Gas Fraction Hydrocarbons		
SW 8015B	EPA 3550B	TPH 8015 Diesel and Motor Oil		
EPA 8015	EPA 8015	Jet Fuel 5 C8-C18		
EPA 8015		Jet Fuel 8 C8-C18		
Sample ID 202112140296	Client Sample ID for reference onl TRAVEL BLANK	Sample Date & Time 12/13/21 1155 DW	Clip Code	PWSID JLS
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:
Method SW 8015B	Prep Method EPA 5030C	Analysis Requested (SUB)Gas Fraction Hydrocarbons		

Relinquished by: 	Date <u>12-14-21</u> Time <u>1526</u>
Received by: 	Date <u>12-14-21</u> Time <u>1800</u>
Relinquished by: _____	Date _____ Time _____
Received by: _____	Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS
An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Type of Delivery ☐ Fedex ☐ UPS ☐ GSO ☐ Others	Airbill / Tracking Number	ECN 21L153
☐ EMAX Courier ☒ Client Delivery		Recipient <u>Richard B.</u>
		Date <u>12/14/21</u> Time <u>10:10</u> <u>10:00</u>

COC INSPECTION					
☒ Client Name	☒ Client PM/FC	☐ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☒ Address	☒ Tel # / Fax #	☐ Courier Signature	☒ Analysis Required	☐ Preservative (if any)	☒ TAT
Safety Issues (if any)		☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required	
Note: _____					

PACKAGING INSPECTION					
Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn		
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 <u>0.0</u> °C	☒ Cooler 2 <u>0.7</u> °C	☒ Cooler 3 <u>0.3</u> °C	☒ Cooler 4 <u>0.4</u> °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	A - S/N <u>210191066</u> a 12/14		B - S/N <u>210271396</u>		C - S/N <u>210271399</u>
Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.					
Note: _____					

DISCREPANCIES				
LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
1	7	D14		
1	8-10	D2	analysis on label does not include	
+	14-15 JSR 12/15		Jet Fuel 0	
1	14-15	D2	label states 625BN / 625A only, does not include 625PAH	
2		D8	no ambers for 625A/625BN/625PAH received	
3		D8		

☐ 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: Two dots visible on label for sample # 2 (10) - 11/30/21 w original label and 12/13/21 w second label, same for sample #4

LEGEND:			☐ Continue to next page.
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 ☐ COC ☐ Label	
D2 Analysis mismatch COC vs label	D14 Bubble is >6mm	R2 Refer to attached instruction	
D3 Sample ID mismatch COC vs label	D15 No trip blank in cooler	R3 Cancel the analysis	
D4 Sample ID is not indicated in _____	D16 Preservation not indicated in _____	R4 Use vial with smallest bubble first	
D5 Container -[improper] [leaking] [broken]	D17 Preservation mismatch COC vs label	R5 Log-in with latest sampling date and time+1 min	
D6 Date/Time is not indicated in _____	D18 Insufficient chemical preservative	R6 Adjust pH as necessary	
D7 Date/Time mismatch COC vs label	D19 Insufficient Sample	R7 Filter and preserved as necessary	
D8 Sample listed in COC is not received	D20 No filtration info for dissolved analysis	R8 <u>Informed Client</u>	
D9 Sample received is not listed in COC	D21 No sample for moisture determination	R9 _____	
D10 No initial/date on corrections in COC/label	D22 _____	R10 _____	
D11 Container count mismatch COC vs received	D23 _____	R11 _____	
D12 Container size mismatch COC vs received	D24 _____	R12 _____	

REVIEWS:	Sample Labeling <u>Jocelyne</u>	SRF <u>Reyler</u>	PM <u>RB</u>
	Date <u>12/15/21</u>	Date <u>12/15/21</u>	Date <u>12/15/21</u>

REPORTING CONVENTIONS

DATA QUALIFIERS:

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

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

ACRONYMS AND ABBREVIATIONS:

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

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

974932

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

SDG#: 21L153

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 974932

SDG : 21L153

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

A total of four(4) water samples were received on 12/14/21 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. VG39L07B - 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. VG39L07L/VG39L07C 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 L153-01M/L153-01S. 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 SDG NO. : 21L153
 Project : 974932 Instrument ID : GCT039

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	WATER		Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis DateTime						
MBLK1W	VG39L07B	1	NA	12/15/2114:02		12/15/2114:02	EL15005A	EL15003A	21VG39L07	Method Blank
LCS1W	VG39L07L	1	NA	12/15/2114:38		12/15/2114:38	EL15006A	EL15003A	21VG39L07	Lab Control Sample (LCS)
LCD1W	VG39L07C	1	NA	12/15/2115:14		12/15/2115:14	EL15007A	EL15003A	21VG39L07	LCS Duplicate
202112140293	L153-01	1	NA	12/15/2115:51		12/15/2115:51	EL15008A	EL15003A	21VG39L07	Field Sample
202112140293MS	L153-01M	1	NA	12/15/2116:28		12/15/2116:28	EL15009A	EL15003A	21VG39L07	Matrix Spike Sample (MS)
202112140293MSD	L153-01S	1	NA	12/15/2117:05		12/15/2117:05	EL15010A	EL15003A	21VG39L07	MS Duplicate (MSD)
202112140294	L153-02	1	NA	12/15/2117:42		12/15/2117:42	EL15011A	EL15003A	21VG39L07	Field Sample
202112140295	L153-03	1	NA	12/15/2118:19		12/15/2118:19	EL15012A	EL15003A	21VG39L07	Field Sample
202112140296	L153-04	1	NA	12/15/2118:55		12/15/2118:55	EL15013A	EL15003A	21VG39L07	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: 12/13/21 11:23
Project     : 974932                     Date Received: 12/14/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 15:51
Sample ID   : 202112140293               Date Analyzed: 12/15/21 15:51
Lab Samp ID : L153-01                     Dilution Factor: 1
Lab File ID : EL15008A                     Matrix: WATER
Ext Btch ID : 21VG39L07                   % Moisture: NA
Calib. Ref. : EL15003A                     Instrument ID: 39
=====

```

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	0.0353	0.0400	88	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: 12/13/21 11:23
Project     : 974932                      Date Received: 12/14/21
Batch No.   : 21L153                      Date Extracted: 12/15/21 17:42
Sample ID   : 202112140294                Date Analyzed: 12/15/21 17:42
Lab Samp ID : L153-02                     Dilution Factor: 1
Lab File ID : EL15011A                    Matrix: WATER
Ext Btch ID : 21VG39L07                   % Moisture: NA
Calib. Ref. : EL15003A                    Instrument ID: 39
=====
```

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	0.0344	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

Client	: EUROFINs EATON ANALYTICAL	Date Collected:	12/13/21 11:55
Project	: 974932	Date Received:	12/14/21
Batch No.	: 21L153	Date Extracted:	12/15/21 18:19
Sample ID	: 202112140295	Date Analyzed:	12/15/21 18:19
Lab Samp ID:	L153-03	Dilution Factor:	1
Lab File ID:	EL15012A	Matrix:	WATER
Ext Btch ID:	21VG39L07	% Moisture:	NA
Calib. Ref.:	EL15003A	Instrument ID:	39

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

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

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:	12/13/21 11:55
Project	: 974932	Date Received:	12/14/21
Batch No.	: 21L153	Date Extracted:	12/15/21 18:55
Sample ID	: 202112140296	Date Analyzed:	12/15/21 18:55
Lab Samp ID:	L153-04	Dilution Factor:	1
Lab File ID:	EL15013A	Matrix:	WATER
Ext Btch ID:	21VG39L07	% Moisture:	NA
Calib. Ref.:	EL15003A	Instrument ID:	39

=====

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	0.0329	0.0400	82	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: 12/15/21 14:02
Project     : 974932                     Date Received: 12/15/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:02
Sample ID   : MBLK1W                     Date Analyzed: 12/15/21 14:02
Lab Samp ID : VG39L07B                   Dilution Factor: 1
Lab File ID : EL15005A                   Matrix: WATER
Ext Btch ID : 21VG39L07                  % Moisture: NA
Calib. Ref. : EL15003A                   Instrument ID: 39
=====
```

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	0.0342	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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 5030B/8015B

```
=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID    : MBLK1W                             LCS1W                             LCD1W
LAB SAMPLE ID : VG39L07B                         VG39L07L                         VG39L07C
LAB FILE ID   : EL15005A                         EL15006A                         EL15007A
DATE PREPARED : 12/15/21 14:02                   12/15/21 14:38                   12/15/21 15:14
DATE ANALYZED : 12/15/21 14:02                   12/15/21 14:38                   12/15/21 15:14
PREP BATCH    : 21VG39L07                       21VG39L07                       21VG39L07
CALIBRATION REF: EL15003A                       EL15003A                       EL15003A
```

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	0.527	105	0.500	0.503	101	5	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0465	116	0.0400	0.0450	113	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 : 974932
BATCH NO. : 21L153
METHOD : 5030B/8015B

```
=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : 202112140293                        202112140293MS  202112140293MSD
LAB SAMPLE ID : L153-01                            L153-01M      L153-01S
LAB FILE ID  : EL15008A                            EL15009A      EL15010A
DATE PREPARED : 12/15/21 15:51                     12/15/21 16:28 12/15/21 17:05
DATE ANALYZED : 12/15/21 15:51                     12/15/21 16:28 12/15/21 17:05
PREP BATCH   : 21VG39L07                           21VG39L07     21VG39L07
CALIBRATION REF: EL15003A                          EL15003A      EL15003A
```

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	0.498	100	0.500	0.511	102	3	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0446	112	0.0400	0.0451	113	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

974932

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 21L153

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 974932

SDG : 21L153

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 12/14/21 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSL014WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSL014WL. 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 21L153-01M/21L153-01S. 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

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.

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 974932

SDG : 21L153

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 12/14/21 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSL014WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for JP5 was within LCS QC limits in J5L014WL. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 21L153-01M/21L153-01S. 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

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.

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 974932

SDG : 21L153

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 12/14/21 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSL014WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for JP8 was within LCS QC limits in J8L014WL. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 21L153-01M/21L153-01S. 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

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 EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 974932
SDG NO. : 21L153
Instrument ID : D5

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	WATER		Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSL014WB	1	NA	12/16/2113:47			12/15/2114:00	LL16009A	LL16003A	21DSL014W	Method Blank
LCS1W	DSL014WL	1	NA	12/16/2114:05			12/15/2114:00	LL16010A	LL16003A	21DSL014W	Lab Control Sample (LCS)
202112140293	L153-01	1	NA	12/16/2114:58			12/15/2114:00	LL16013A	LL16003A	21DSL014W	Field Sample
202112140293MS	L153-01M	1	NA	12/16/2115:16			12/15/2114:00	LL16014A	LL16003A	21DSL014W	Matrix Spike Sample (MS)
202112140293MSD	L153-01S	1	NA	12/16/2115:33			12/15/2114:00	LL16015A	LL16003A	21DSL014W	MS Duplicate (MSD)
202112140295	L153-03	1	NA	12/16/2117:02			12/15/2114:00	LL16020A	LL16003A	21DSL014W	Field Sample

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 974932
SDG NO. : 21L153
Instrument ID : D5

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

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 974932
SDG NO. : 21L153
Instrument ID : D5

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Datetime	Extraction Datetime	Sample Data FN	Calibration Prep.		Notes
							Data FN	Batch	
202112140293 202112140293MS 202112140293MSD 202112140295	MSLK1W								
	LCS1W								
	DSL014WB	1	NA	12/16/2113:47	12/15/2114:00	LL16009A	LL16005A	21DSL014W	Method Blank
	J8L014WL	1	NA	12/16/2114:40	12/15/2114:00	LL16012A	LL16005A	21DSL014W	Lab Control Sample (LCS)
	L153-01	1	NA	12/16/2114:58	12/15/2114:00	LL16013A	LL16005A	21DSL014W	Field Sample
202112140295	L153-01M	1	NA	12/16/2116:27	12/15/2114:00	LL16018A	LL16005A	21DSL014W	Matrix Spike Sample (MS)
	L153-01S	1	NA	12/16/2116:44	12/15/2114:00	LL16019A	LL16005A	21DSL014W	MS Duplicate (MSD)
	L153-03	1	NA	12/16/2117:02	12/15/2114:00	LL16020A	LL16005A	21DSL014W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```
=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 12/13/21 11:23
Project     : 974932                      Date Received: 12/14/21
Batch No.   : 21L153                      Date Extracted: 12/15/21 14:00
Sample ID   : 202112140293                Date Analyzed: 12/16/21 14:58
Lab Samp ID : 21L153-01                    Dilution Factor: 1
Lab File ID : LL16013A                     Matrix: WATER
Ext Btch ID : 21DSL014W                    % Moisture: NA
Calib. Ref.: LL16003A                     Instrument ID: D5
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.027	0.013
Motor Oil	ND	0.053	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.440	0.530	83	60-130
Hexacosane	0.105	0.132	79	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 : 940ml Final Volume : 5ml
Prepared by : HWang Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 12/13/21 11:23
Project     : 974932                     Date Received: 12/14/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:00
Sample ID   : 202112140293               Date Analyzed: 12/16/21 14:58
Lab Samp ID: 21L153-01                   Dilution Factor: 1
Lab File ID: LL16013A                     Matrix: WATER
Ext Btch ID: 21DSL014W                   % Moisture: NA
Calib. Ref.: LL16004A                   Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.053	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.440	0.530	83	60-130
Hexacosane	0.105	0.132	79	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 940ml

Final Volume : 5ml

Prepared by : HWang

Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 12/13/21 11:23
Project     : 974932                     Date Received: 12/14/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:00
Sample ID   : 202112140293              Date Analyzed: 12/16/21 14:58
Lab Samp ID: 21L153-01                  Dilution Factor: 1
Lab File ID: LL16013A                   Matrix: WATER
Ext Btch ID: 21DSL014W                  % Moisture: NA
Calib. Ref.: LL16005A                   Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.053	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.440	0.530	83	60-130
Hexacosane	0.105	0.132	79	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 940ml

Final Volume : 5ml

Prepared by : HWang

Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 12/13/21 11:55
Project     : 974932                     Date Received: 12/14/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:00
Sample ID   : 202112140295              Date Analyzed: 12/16/21 17:02
Lab Samp ID : 21L153-03                  Dilution Factor: 1
Lab File ID : LL16020A                   Matrix: WATER
Ext Btch ID : 21DSL014W                  % Moisture: NA
Calib. Ref.: LL16003A                    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	0.464	0.515	90	60-130
Hexacosane	0.108	0.129	84	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 : 970ml Final Volume : 5ml
Prepared by : HWang Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 12/13/21 11:55
Project     : 974932                     Date Received: 12/14/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:00
Sample ID   : 202112140295               Date Analyzed: 12/16/21 17:02
Lab Samp ID: 21L153-03                   Dilution Factor: 1
Lab File ID: LL16020A                     Matrix: WATER
Ext Btch ID: 21DSL014W                     % Moisture: NA
Calib. Ref.: LL16004A                     Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.052	0.026

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.464	0.515	90	60-130
Hexacosane	0.108	0.129	84	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 970ml

Final Volume : 5ml

Prepared by : HWang

Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 12/13/21 11:55
Project     : 974932                      Date Received: 12/14/21
Batch No.   : 21L153                      Date Extracted: 12/15/21 14:00
Sample ID   : 202112140295                Date Analyzed: 12/16/21 17:02
Lab Samp ID : 21L153-03                    Dilution Factor: 1
Lab File ID : LL16020A                     Matrix: WATER
Ext Btch ID : 21DSL014W                    % Moisture: NA
Calib. Ref. : LL16005A                     Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.052	0.026

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.464	0.515	90	60-130
Hexacosane	0.108	0.129	84	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 970ml

Final Volume : 5ml

Prepared by : HWang

Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```
=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 12/15/21 14:00
Project     : 974932                     Date Received: 12/15/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:00
Sample ID    : MBLK1W                     Date Analyzed: 12/16/21 13:47
Lab Samp ID : DSL014WB                     Dilution Factor: 1
Lab File ID : LL16009A                     Matrix: WATER
Ext Btch ID : 21DSL014W                     % Moisture: NA
Calib. Ref. : LL16003A                     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	0.421	0.500	84	60-130
Hexacosane	0.103	0.125	82	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 : HWang Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1
SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSL014WB DSL014WL
LAB FILE ID : LL16009A LL16010A
DATE PREPARED : 12/15/21 14:00 12/15/21 14:00
DATE ANALYZED : 12/16/21 13:47 12/16/21 14:05
PREP BATCH : 21DSL014W 21DSL014W
CALIBRATION REF: LL16003A LL16003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.13	85	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.465	93	60-130
Hexacosane	0.125	0.106	85	60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 12/15/21 14:00
Project     : 974932                      Date Received: 12/15/21
Batch No.   : 21L153                      Date Extracted: 12/15/21 14:00
Sample ID   : MBLK1W                      Date Analyzed: 12/16/21 13:47
Lab Samp ID : DSL014WB                    Dilution Factor: 1
Lab File ID : LL16009A                    Matrix: WATER
Ext Btch ID : 21DSL014W                  % Moisture: NA
Calib. Ref.: LL16004A                    Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.050	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.421	0.500	84	60-130
Hexacosane	0.103	0.125	82	60-130

Notes:

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

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1
SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSL014WB J5L014WL
LAB FILE ID : LL16009A LL16011A
DATE PREPARED : 12/15/21 14:00 12/15/21 14:00
DATE ANALYZED : 12/16/21 13:47 12/16/21 14:23
PREP BATCH : 21DSL014W 21DSL014W
CALIBRATION REF: LL16004A LL16004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.01	80	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.479	96	60-130
Hexacosane	0.125	0.104	83	60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 12/15/21 14:00
Project     : 974932                     Date Received: 12/15/21
Batch No.   : 21L153                     Date Extracted: 12/15/21 14:00
Sample ID   : MBLK1W                     Date Analyzed: 12/16/21 13:47
Lab Samp ID: DSL014WB                     Dilution Factor: 1
Lab File ID: LL16009A                     Matrix: WATER
Ext Btch ID: 21DSL014W                     % Moisture: NA
Calib. Ref.: LL16005A                     Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.050	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.421	0.500	84	60-130
Hexacosane	0.103	0.125	82	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml

Prepared by : HWang

Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1
SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSL014WB J8L014WL
LAB FILE ID : LL16009A LL16012A
DATE PREPARED : 12/15/21 14:00 12/15/21 14:00
DATE ANALYZED : 12/16/21 13:47 12/16/21 14:40
PREP BATCH : 21DSL014W 21DSL014W
CALIBRATION REF: LL16005A LL16005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	2.44	98	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.516	103	60-130
Hexacosane	0.125	0.105	84	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 202112140293	202112140293MS	202112140293MSD
LAB SAMPLE ID	: 21L153-01	21L153-01M	21L153-01S
LAB FILE ID	: LL16013A	LL16014A	LL16015A
DATE PREPARED	: 12/15/21 14:00	12/15/21 14:00	12/15/21 14:00
DATE ANALYZED	: 12/16/21 14:58	12/16/21 15:16	12/16/21 15:33
PREP BATCH	: 21DSL014W	21DSL014W	21DSL014W
CALIBRATION REF:	LL16003A	LL16003A	LL16003A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.60	2.40	92	2.58	2.17	84	10	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.520	0.453	87	0.515	0.451	88	60-130
Hexacosane	0.130	0.110	85	0.129	0.108	84	60-130

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

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 202112140293	202112140293MS	202112140293MSD
LAB SAMPLE ID	: 21L153-01	21L153-01M	21L153-01S
LAB FILE ID	: LL16013A	LL16016A	LL16017A
DATE PREPARED	: 12/15/21 14:00	12/15/21 14:00	12/15/21 14:00
DATE ANALYZED	: 12/16/21 14:58	12/16/21 15:51	12/16/21 16:09
PREP BATCH	: 21DSL014W	21DSL014W	21DSL014W
CALIBRATION REF:	LL16004A	LL16004A	LL16004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.45	1.94	79	2.42	2.04	84	5	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.490	0.435	89	0.485	0.459	95	60-130
Hexacosane	0.123	0.0975	80	0.121	0.0992	82	60-130

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

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 974932
BATCH NO. : 21L153
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 202112140293	202112140293MS	202112140293MSD
LAB SAMPLE ID	: 21L153-01	21L153-01M	21L153-01S
LAB FILE ID	: LL16013A	LL16018A	LL16019A
DATE PREPARED	: 12/15/21 14:00	12/15/21 14:00	12/15/21 14:00
DATE ANALYZED	: 12/16/21 14:58	12/16/21 16:27	12/16/21 16:44
PREP BATCH	: 21DSL014W	21DSL014W	21DSL014W
CALIBRATION REF:	LL16005A	LL16005A	LL16005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.55	2.50	98	2.55	2.69	105	7	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.510	0.476	93	0.510	0.503	99	60-130
Hexacosane	0.127	0.102	80	0.127	0.109	85	60-130

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

974932

METHOD SW8015C
ALCOHOLS BY GC

SDG#: 21L153

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 974932

SDG : 21L153

METHOD SW8015C
ALCOHOLS BY GC

A total of two(2) water samples were received on 12/14/21 to be analyzed for Alcohols by GC in accordance with Method SW8015C 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. MEL005WB - 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. MEL005WL/MEL005WC 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. Ethanol was within MS QC limits in L153-01M/L153-01S. Refer to Matrix QC summary form 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
ALCOHOLS BY GC

SDG NO. : 21L153
Instrument ID : GCT050

Client : EUROFINS EATON ANALYTICAL
Project : 974932

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Datetime	WATER		Extraction Datetime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
202112140293	MEL005WB	1	NA	12/15/2112:23	NA	NA	NA	TL15004A	TL15002A	MEL005W	Method Blank
	MEL005WL	1	NA	12/15/2112:37	NA	NA	NA	TL15005A	TL15002A	MEL005W	Lab Control Sample (LCS)
	MEL005WC	1	NA	12/15/2112:50	NA	NA	NA	TL15006A	TL15002A	MEL005W	LCS Duplicate
	L153-01	1	NA	12/15/2113:03	NA	NA	NA	TL15007A	TL15002A	MEL005W	Field Sample
	L153-01M	1	NA	12/15/2113:17	NA	NA	NA	TL15008A	TL15002A	MEL005W	Matrix Spike Sample (MS)
202112140293MSD	L153-01S	1	NA	12/15/2113:30	NA	NA	NA	TL15009A	TL15002A	MEL005W	MS Duplicate (MSD)
202112140295	L153-03	1	NA	12/15/2113:44	NA	NA	NA	TL15010A	TL15002A	MEL005W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW8015C
ALCOHOLS BY GC

```
=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 12/13/21
Project     : 974932                        Date Received: 12/14/21
Batch No.   : 21L153                        Date Extracted: NA
Sample ID: 202112140293                     Date Analyzed: 12/15/21 13:03
Lab Samp ID: L153-01                         Dilution Factor: 1
Lab File ID: TL15007A                       Matrix          : WATER
Ext Btch ID: MEL005W                        % Moisture       : NA
Calib. Ref.: TL15002A                       Instrument ID    : GCT050
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	2000	500

RL : Reporting Limit

METHOD SW8015C
ALCOHOLS BY GC

```
=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 12/13/21
Project     : 974932                        Date Received: 12/14/21
Batch No.   : 21L153                        Date Extracted: NA
Sample ID   : 202112140295                  Date Analyzed: 12/15/21 13:44
Lab Samp ID : L153-03                       Dilution Factor: 1
Lab File ID : TL15010A                      Matrix       : WATER
Ext Btch ID : MEL005W                       % Moisture    : NA
Calib. Ref. : TL15002A                     Instrument ID : GCT050
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	2000	500

RL : Reporting Limit

QC SUMMARIES

METHOD SW8015C
ALCOHOLS BY GC

```
=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: NA
Project     : 974932                        Date Received: NA
Batch No.   : 21L153                        Date Extracted: NA
Sample ID   : MBLK1W                        Date Analyzed: 12/15/21 12:23
Lab Samp ID: MEL005WB                       Dilution Factor: 1
Lab File ID: TL15004A                       Matrix       : WATER
Ext Btch ID: MEL005W                        % Moisture    : NA
Calib. Ref.: TL15002A                       Instrument ID : GCT050
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	2000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 974932
BATCH NO.: 21L153
METHOD: METHOD SW8015C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: MEL005WB MEL005WL MEL005WC
LAB FILE ID: TL15004A TL15005A TL15006A
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA
DATE ANALYZED: 12/15/2112:23 12/15/2112:37 12/15/2112:50 DATE RECEIVED: NA
PREP. BATCH: MEL005W MEL005W MEL005W
CALIB. REF: TL15002A TL15002A TL15002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethanol	ND	10000	9270	93	10000	9290	93	0	60-130	30

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 974932
BATCH NO.: 21L153
METHOD: METHOD SW8015C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: 202112140293
LAB SAMP ID: L153-01 L153-01M L153-01S
LAB FILE ID: TL15007A TL15008A TL15009A
DATE EXTRACTED: NA NA NA DATE COLLECTED: 12/13/21
DATE ANALYZED: 12/15/2113:03 12/15/2113:17 12/15/2113:30 DATE RECEIVED: 12/14/21
PREP. BATCH: MEL005W MEL005W MEL005W
CALIB. REF: TL15002A TL15002A TL15002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethanol	ND	10000	9520	95	10000	9340	93	2	60-130	30

December 22, 2021

Debbie Frank
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-

Project Name: Folder # 974932 Job # 1000014
Physis Project ID: 1407003-204

Dear Debbie,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 12/14/2021. A total of 2 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Organics
Polynuclear Aromatic Hydrocarbons by EPA 625.1
Disalicylidenepropanediamine by EPA 625.1
Dibenzo [a,l] Pyrene w/ PAHs by EPA 625.1
Base/Neutral Extractable Compounds by EPA 625.1
Acid Extractable Compounds w/ PAHs by EPA 625.1
6-tert-Butyl-2,4-dimethylphenol by EPA 625.1
2,6-Di-tert-butylphenol by EPA 625.1
2,6-Di-tert-butyl-4-methylphenol by EPA 625.1
p-tert-Butylphenol by EPA 625.1

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rachel Hansen
714 602-5320
Extension 203
rachelhansen@physislabs.com

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-204

Folder # 974932 Job # 1000014

Total Samples: 2

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
94161	202112140293	Pearl City I	12/13/2021	11:23	Samplewater	Not Specified
94162	202112140295	Pearl City Shaft	12/13/2021	11:55	Samplewater	Not Specified

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MD
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

ANALYTICAL REPORT

TERRA

RESEARCH

AURA

ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 94161-R1 202112140293 Pearl City I											
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	121	1			Total	13-Dec-21 11:23	O-35020	14-Dec-21	19-Dec-21
(d5-Phenol)	EPA 625.1	% Recovery	22	1			Total		O-35020	14-Dec-21	19-Dec-21
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Benzoic Acid	EPA 625.1	µg/L	0.501	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 94162-R1 202112140295 Pearl City Shaft Matrix: Samplewater											
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	121	1			Total	13-Dec-21 11:55	O-35020	Received: 14-Dec-21	14-Dec-21
(d5-Phenol)	EPA 625.1	% Recovery	28	1			Total		O-35020	14-Dec-21	19-Dec-21
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Benzoic Acid	EPA 625.1	µg/L	0.594	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35020	14-Dec-21	19-Dec-21
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 94161-R1 202112140293 Pearl City I Matrix: Samplewater											
(d4-1,4-Dichlorobenzene)	EPA 625.1	% Recovery	83	1			Total		O-35020	14-Dec-21	14-Dec-21
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 94162-R1		202112140295 Pearl City Shaft		Matrix: Samplewater		Sampled: 13-Dec-21 11:55		Received: 14-Dec-21		14-Dec-21	
(d4-1,4-Dichlorobenzene)	EPA 625.1	% Recovery	90	1			Total		O-35020	14-Dec-21	19-Dec-21
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35020	14-Dec-21	19-Dec-21

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 94161-R1 202112140293 Pearl City I Matrix: Samplewater											
(d10-Acenaphthene)	EPA 625.1	% Recovery	84	1			Total		O-35020	14-Dec-21	14-Dec-21
(d10-Phenanthrene)	EPA 625.1	% Recovery	92	1			Total		O-35020	14-Dec-21	19-Dec-21
(d12-Chrysene)	EPA 625.1	% Recovery	99	1			Total		O-35020	14-Dec-21	19-Dec-21
(d12-Perylene)	EPA 625.1	% Recovery	91	1			Total		O-35020	14-Dec-21	19-Dec-21
(d8-Naphthalene)	EPA 625.1	% Recovery	75	1			Total		O-35020	14-Dec-21	19-Dec-21
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Matrix: Samplewater											
Sample ID: 94162-R1	202112140295	Pearl City Shaft	Sampled: 13-Dec-21 11:55								
(d10-Acenaphthene)	EPA 625.1	% Recovery	89	1			Total		O-35020	14-Dec-21	19-Dec-21
(d10-Phenanthrene)	EPA 625.1	% Recovery	93	1			Total		O-35020	14-Dec-21	19-Dec-21
(d12-Chrysene)	EPA 625.1	% Recovery	97	1			Total		O-35020	14-Dec-21	19-Dec-21
(d12-Perylene)	EPA 625.1	% Recovery	90	1			Total		O-35020	14-Dec-21	19-Dec-21
(d8-Naphthalene)	EPA 625.1	% Recovery	82	1			Total		O-35020	14-Dec-21	19-Dec-21
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35020	14-Dec-21	19-Dec-21

QUALITY CONTROL REPORT

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ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODE
Sample ID: 94160-B1		QA/QC Procedural Blank		Matrix: BlankMatrix			Sampled:		Received:		
		Method: EPA 625.1		Batch ID: O-35020			Prepared: 10-Dec-21		Analyzed: 18-Dec-21		
(2,4,6-Tribromophenol)	Total	107	1			% Recovery	100		107	44 - 159%	PASS
(d5-Phenol)	Total	93	1			% Recovery	100		93	20 - 121%	PASS
2,4,5-Trichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,4,6-Trichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,4-Dichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,4-Dinitrophenol	Total	ND	1	0.1	0.2	µg/L					
2,6-Dichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,6-Di-tert-butyl-4-methylphenol	Total	ND	1	0.05	0.1	µg/L					
2,6-Di-tert-butylphenol	Total	ND	1	0.05	0.1	µg/L					
2-Chlorophenol	Total	ND	1	0.05	0.1	µg/L					
2-Methyl-4,6-dinitrophenol	Total	ND	1	0.1	0.2	µg/L					
2-Methylphenol	Total	ND	1	0.1	0.2	µg/L					
2-Nitrophenol	Total	ND	1	0.1	0.2	µg/L					
3+4-Methylphenol	Total	ND	1	0.1	0.2	µg/L					
4-Chloro-3-methylphenol	Total	ND	1	0.1	0.2	µg/L					
4-Nitrophenol	Total	ND	1	0.1	0.2	µg/L					
6-tert-butyl-2,4-dimethylphenol	Total	ND	1	0.05	0.1	µg/L					
Benzoic Acid	Total	ND	1	0.1	0.2	µg/L					
Benzyl Alcohol	Total	ND	1	0.1	0.2	µg/L					
Pentachlorophenol	Total	ND	1	0.05	0.1	µg/L					
Phenol	Total	ND	1	0.1	0.2	µg/L					
p-tert-Butylphenol	Total	ND	1	0.05	0.1	µg/L					

Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODEC
Sample ID: 94160-BS1											
QA/QC Procedural Blank											
Method: EPA 625.1						Batch ID: O-35020			Prepared: 10-Dec-21		
(2,4,6-Tribromophenol)	Total	121	1			% Recovery	100	0	121	44 - 159%	PASS
(d5-Phenol)	Total	88	1			% Recovery	100	0	88	20 - 121%	PASS
2,4,5-Trichlorophenol	Total	0.918	1	0.05	0.1	µg/L	1	0	92	57 - 116%	PASS
2,4,6-Trichlorophenol	Total	0.953	1	0.05	0.1	µg/L	1	0	95	56 - 118%	PASS
2,4-Dichlorophenol	Total	0.968	1	0.05	0.1	µg/L	1	0	97	51 - 117%	PASS
2,4-Dinitrophenol	Total	1.11	1	0.1	0.2	µg/L	1	0	111	0 - 152%	PASS
2,6-Dichlorophenol	Total	0.473	1	0.05	0.1	µg/L	1	0	47	30 - 130%	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.885	1	0.05	0.1	µg/L	1	0	88	50 - 150%	PASS
2,6-Di-tert-butylphenol	Total	0.908	1	0.05	0.1	µg/L	1	0	91	50 - 150%	PASS
2-Chlorophenol	Total	0.878	1	0.05	0.1	µg/L	1	0	88	41 - 110%	PASS
2-Methyl-4,6-dinitrophenol	Total	1.18	1	0.1	0.2	µg/L	1	0	118	0 - 141%	PASS
2-Methylphenol	Total	0.921	1	0.1	0.2	µg/L	1	0	92	40 - 117%	PASS
2-Nitrophenol	Total	1.05	1	0.1	0.2	µg/L	1	0	105	40 - 117%	PASS
3+4-Methylphenol	Total	0.973	1	0.1	0.2	µg/L	1	0	97	0 - 130%	PASS
4-Chloro-3-methylphenol	Total	1.22	1	0.1	0.2	µg/L	1	0	122	51 - 128%	PASS
4-Nitrophenol	Total	1.01	1	0.1	0.2	µg/L	1	0	101	10 - 164%	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.855	1	0.05	0.1	µg/L	1	0	86	50 - 150%	PASS
Benzoic Acid	Total	0.351	1	0.1	0.2	µg/L	1	0	35	2 - 145%	PASS
Benzyl Alcohol	Total	1.45	1	0.1	0.2	µg/L	1	0	145	43 - 148%	PASS
Pentachlorophenol	Total	1.17	1	0.05	0.1	µg/L	1	0	117	36 - 111%	PASS
Phenol	Total	0.844	1	0.1	0.2	µg/L	1	0	84	29 - 114%	PASS
p-tert-Butylphenol	Total	1.05	1	0.05	0.1	µg/L	1	0	105	50 - 150%	PASS

Received:

Analyzed: 18-Dec-21

Matrix: Blank/Matrix

Sample ID: 94160-BS1

QA/QC Procedural Blank

Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY LIMITS	PRECISION %	QA CODEC
Sample ID: 94160-BS2											
Matrix: BlankMatrix											
Sampled:											
Received:											
Method: EPA 625.1											
Batch ID: O-35020											
Prepared: 10-Dec-21											
Analyzed: 18-Dec-21											
(2,4,6-Tribromophenol)	Total	123	1			% Recovery	100	0	123	44 - 159%	PASS
(d5-Phenol)	Total	85	1			% Recovery	100	0	85	20 - 121%	PASS
2,4,5-Trichlorophenol	Total	0.894	1	0.05	0.1	µg/L	1	0	89	57 - 116%	PASS
2,4,6-Trichlorophenol	Total	0.934	1	0.05	0.1	µg/L	1	0	93	56 - 118%	PASS
2,4-Dichlorophenol	Total	0.946	1	0.05	0.1	µg/L	1	0	95	51 - 117%	PASS
2,4-Dinitrophenol	Total	0.873	1	0.1	0.2	µg/L	1	0	87	0 - 152%	PASS
2,6-Dichlorophenol	Total	0.463	1	0.05	0.1	µg/L	1	0	46	30 - 130%	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.77	1	0.05	0.1	µg/L	1	0	77	50 - 150%	PASS
2,6-Di-tert-butylphenol	Total	0.839	1	0.05	0.1	µg/L	1	0	84	50 - 150%	PASS
2-Chlorophenol	Total	0.861	1	0.05	0.1	µg/L	1	0	86	41 - 110%	PASS
2-Methyl-4,6-dinitrophenol	Total	1.15	1	0.1	0.2	µg/L	1	0	115	0 - 141%	PASS
2-Methylphenol	Total	0.901	1	0.1	0.2	µg/L	1	0	90	40 - 117%	PASS
2-Nitrophenol	Total	0.982	1	0.1	0.2	µg/L	1	0	98	40 - 117%	PASS
3+4-Methylphenol	Total	0.94	1	0.1	0.2	µg/L	1	0	94	0 - 130%	PASS
4-Chloro-3-methylphenol	Total	1.22	1	0.1	0.2	µg/L	1	0	122	51 - 128%	PASS
4-Nitrophenol	Total	0.893	1	0.1	0.2	µg/L	1	0	89	10 - 164%	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.82	1	0.05	0.1	µg/L	1	0	82	50 - 150%	PASS
Benzoic Acid	Total	0.204	1	0.1	0.2	µg/L	1	0	20	2 - 145%	PASS
Benzyl Alcohol	Total	1.41	1	0.1	0.2	µg/L	1	0	141	43 - 148%	PASS
Pentachlorophenol	Total	1.19	1	0.05	0.1	µg/L	1	0	119	36 - 111%	PASS
Phenol	Total	0.815	1	0.1	0.2	µg/L	1	0	81	29 - 114%	PASS
p-tert-Butylphenol	Total	1.02	1	0.05	0.1	µg/L	1	0	102	50 - 150%	PASS

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODE
Sample ID: 94160-B1		QA/QC Procedural Blank				Matrix: BlankMatrix		Sampled:		Received:	
		Method: EPA 625.1				Batch ID: O-35020		Prepared: 10-Dec-21		Analyzed: 18-Dec-21	
(d4-1,4-Dichlorobenzene)	Total	86	1			% Recovery	100		86	30 - 130%	PASS
2-Chloronaphthalene	Total	ND	1	0.05	0.1	µg/L					
2-Nitroaniline	Total	ND	1	0.05	0.1	µg/L					
3-Nitroaniline	Total	ND	1	0.05	0.1	µg/L					
4-Bromophenylphenyl ether	Total	ND	1	0.05	0.1	µg/L					
4-Chloroaniline	Total	ND	1	0.05	0.1	µg/L					
4-Chlorophenylphenyl ether	Total	ND	1	0.05	0.1	µg/L					
4-Nitroaniline	Total	ND	1	0.05	0.1	µg/L					
Aniline	Total	ND	1	0.05	0.1	µg/L					
Bis(2-Chloroethoxy) methane	Total	ND	1	0.05	0.1	µg/L					
Bis(2-Chloroethyl) ether	Total	ND	1	0.05	0.1	µg/L					
Bis(2-Chloroisopropyl) ether	Total	ND	1	0.05	0.1	µg/L					
Dibenzofuran	Total	ND	1	0.05	0.1	µg/L					
Disalicylidenepropanediamine	Total	ND	1	0.05	0.1	µg/L					
Hexachloroethane	Total	ND	1	0.05	0.1	µg/L					
Nitrobenzene	Total	ND	1	0.05	0.1	µg/L					
N-Nitrosodi-n-propylamine	Total	ND	1	0.05	0.1	µg/L					
N-Nitrosodiphenylamine	Total	ND	1	0.05	0.1	µg/L					

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODEC
Sample ID: 94160-BS1		QA/QC Procedural Blank				Matrix: Blank/Matrix		Sampled:		Received:	
		Method: EPA 625.1				Batch ID: O-35020		Prepared: 10-Dec-21		Analyzed: 18-Dec-21	
(d4-1,4-Dichlorobenzene)	Total	102	1			% Recovery	100	0	102	30 - 130%	PASS
2-Chloronaphthalene	Total	0.948	1	0.05	0.1	µg/L	1	0	95	53 - 130%	PASS
2-Nitroaniline	Total	0.939	1	0.05	0.1	µg/L	1	0	94	69 - 114%	PASS
3-Nitroaniline	Total	0.726	1	0.05	0.1	µg/L	1	0	73	23 - 137%	PASS
4-Bromophenylphenyl ether	Total	0.977	1	0.05	0.1	µg/L	1	0	98	61 - 132%	PASS
4-Chloroaniline	Total	0.883	1	0.05	0.1	µg/L	1	0	88	50 - 150%	PASS
4-Chlorophenylphenyl ether	Total	0.972	1	0.05	0.1	µg/L	1	0	97	63 - 130%	PASS
4-Nitroaniline	Total	0.968	1	0.05	0.1	µg/L	1	0	97	10 - 159%	PASS
Aniline	Total	0.838	1	0.05	0.1	µg/L	1	0	84	50 - 150%	PASS
Benzidine	Total	0.776	1	0.05	0.1	µg/L	1	0	78	0 - 125%	PASS
Bis(2-Chloroethoxy) methane	Total	1.02	1	0.05	0.1	µg/L	1	0	102	66 - 122%	PASS
Bis(2-Chloroethyl) ether	Total	0.832	1	0.05	0.1	µg/L	1	0	83	43 - 127%	PASS
Bis(2-Chloroisopropyl) ether	Total	1.06	1	0.05	0.1	µg/L	1	0	106	49 - 128%	PASS
Dibenzofuran	Total	0.959	1	0.05	0.1	µg/L	1	0	96	50 - 150%	PASS
Disalicylidenepropanediamine	Total	55.4	1	0.05	0.1	µg/L	50	0	111	50 - 150%	PASS
Hexachloroethane	Total	0.863	1	0.05	0.1	µg/L	1	0	86	27 - 130%	PASS
Nitrobenzene	Total	0.905	1	0.05	0.1	µg/L	1	0	90	54 - 111%	PASS
N-Nitrosodi-n-propylamine	Total	1.07	1	0.05	0.1	µg/L	1	0	107	61 - 152%	PASS
N-Nitrosodiphenylamine	Total	0.951	1	0.05	0.1	µg/L	1	0	95	49 - 142%	PASS

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY LIMITS	PRECISION %	QA CODE
Sample ID: 94160-BS2											
Matrix: Blank/Matrix											
Sampled: 10-Dec-21											
Received: 18-Dec-21											
Method: EPA 625.1											
Batch ID: O-35020											
% Recovery											
(d4-1,4-Dichlorobenzene)	Total	102	1				100	0	102	30 - 130%	PASS
2-Chloronaphthalene	Total	0.95	1	0.05	0.1	µg/L	1	0	95	53 - 130%	PASS
2-Nitroaniline	Total	0.94	1	0.05	0.1	µg/L	1	0	94	69 - 114%	PASS
3-Nitroaniline	Total	0.756	1	0.05	0.1	µg/L	1	0	76	23 - 137%	PASS
4-Bromophenylphenyl ether	Total	0.997	1	0.05	0.1	µg/L	1	0	100	61 - 132%	PASS
4-Chloroaniline	Total	0.881	1	0.05	0.1	µg/L	1	0	88	50 - 150%	PASS
4-Chlorophenylphenyl ether	Total	0.974	1	0.05	0.1	µg/L	1	0	97	63 - 130%	PASS
4-Nitroaniline	Total	0.989	1	0.05	0.1	µg/L	1	0	99	10 - 159%	PASS
Aniline	Total	0.851	1	0.05	0.1	µg/L	1	0	85	50 - 150%	PASS
Benzidine	Total	0.781	1	0.05	0.1	µg/L	1	0	78	0 - 125%	PASS
Bis(2-Chloroethoxy) methane	Total	0.994	1	0.05	0.1	µg/L	1	0	99	66 - 122%	PASS
Bis(2-Chloroethyl) ether	Total	0.845	1	0.05	0.1	µg/L	1	0	85	43 - 127%	PASS
Bis(2-Chloroisopropyl) ether	Total	1.04	1	0.05	0.1	µg/L	1	0	104	49 - 128%	PASS
Dibenzofuran	Total	0.963	1	0.05	0.1	µg/L	1	0	96	50 - 150%	PASS
Disalicylidenepropanediamine	Total	60.6	1	0.05	0.1	µg/L	50	0	121	50 - 150%	PASS
Hexachloroethane	Total	0.861	1	0.05	0.1	µg/L	1	0	86	27 - 130%	PASS
Nitrobenzene	Total	0.891	1	0.05	0.1	µg/L	1	0	89	54 - 111%	PASS
N-Nitrosodi-n-propylamine	Total	1.01	1	0.05	0.1	µg/L	1	0	101	61 - 152%	PASS
N-Nitrosodiphenylamine	Total	0.959	1	0.05	0.1	µg/L	1	0	96	49 - 142%	PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY LIMITS	PRECISION %	QA CODEC
Sample ID: 94160-B1		QA/QC Procedural Blank				Matrix: BlankMatrix			Sampled:		Received:
		Method: EPA 625.1				Batch ID: O-35020			Prepared: 10-Dec-21		Analyzed: 18-Dec-21
(d10-Acenaphthene)	Total	98	1			% Recovery	100		98	65 - 113%	PASS
(d10-Phenanthrene)	Total	97	1			% Recovery	100		97	80 - 111%	PASS
(d12-Chrysene)	Total	96	1			% Recovery	100		96	60 - 139%	PASS
(d12-Perylene)	Total	97	1			% Recovery	100		97	36 - 161%	PASS
(d8-Naphthalene)	Total	92	1			% Recovery	100		92	44 - 119%	PASS
1-Methylnaphthalene	Total	ND	1	0.001	0.005	µg/L					
1-Methylphenanthrene	Total	ND	1	0.001	0.005	µg/L					
2,3,5-Trimethylnaphthalene	Total	ND	1	0.001	0.005	µg/L					
2,6-Dimethylnaphthalene	Total	ND	1	0.001	0.005	µg/L					
2-Methylnaphthalene	Total	ND	1	0.001	0.005	µg/L					
Acenaphthene	Total	ND	1	0.001	0.005	µg/L					
Acenaphthylene	Total	ND	1	0.001	0.005	µg/L					
Anthracene	Total	ND	1	0.001	0.005	µg/L					
Benz[a]anthracene	Total	ND	1	0.001	0.005	µg/L					
Benzo[a]pyrene	Total	ND	1	0.001	0.005	µg/L					
Benzo[b]fluoranthene	Total	ND	1	0.001	0.005	µg/L					
Benzo[e]pyrene	Total	ND	1	0.001	0.005	µg/L					
Benzo[g,h,i]perylene	Total	ND	1	0.001	0.005	µg/L					
Benzo[k]fluoranthene	Total	ND	1	0.001	0.005	µg/L					
Biphenyl	Total	ND	1	0.001	0.005	µg/L					
Chrysene	Total	ND	1	0.001	0.005	µg/L					
Dibenz[a,h]anthracene	Total	ND	1	0.001	0.005	µg/L					
Dibenzo[a,l]pyrene	Total	ND	1	0.001	0.005	µg/L					

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODE _c
Dibenzothiophene	Total	ND	1	0.001	0.005	µg/L					
Fluoranthene	Total	ND	1	0.001	0.005	µg/L					
Fluorene	Total	ND	1	0.001	0.005	µg/L					
Indeno[1,2,3-cd]pyrene	Total	ND	1	0.001	0.005	µg/L					
Naphthalene	Total	ND	1	0.001	0.005	µg/L					
Perylene	Total	ND	1	0.001	0.005	µg/L					
Phenanthrene	Total	ND	1	0.001	0.005	µg/L					
Pyrene	Total	ND	1	0.001	0.005	µg/L					

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY LIMITS	PRECISION %	QA CODEC
Sample ID: 94160-BS1 QAQC Procedural Blank Method: EPA 625.1 Batch ID: O-35020 Matrix: BlankMatrix Prepared: 10-Dec-21 Received: 18-Dec-21											
(d10-Acenaphthene)	Total	84	1			% Recovery	100	0	84	65 - 113%	PASS
(d10-Phenanthrene)	Total	91	1			% Recovery	100	0	91	80 - 111%	PASS
(d12-Chrysene)	Total	96	1			% Recovery	100	0	96	60 - 139%	PASS
(d12-Perylene)	Total	91	1			% Recovery	100	0	91	36 - 161%	PASS
(d8-Naphthalene)	Total	78	1			% Recovery	100	0	78	44 - 119%	PASS
1-Methylnaphthalene	Total	0.441	1	0.001	0.005	µg/L	0.5	0	88	49 - 117%	PASS
1-Methylphenanthrene	Total	0.509	1	0.001	0.005	µg/L	0.5	0	102	66 - 127%	PASS
2,3,5-Trimethylnaphthalene	Total	0.469	1	0.001	0.005	µg/L	0.5	0	94	57 - 120%	PASS
2,6-Dimethylnaphthalene	Total	0.452	1	0.001	0.005	µg/L	0.5	0	90	54 - 117%	PASS
2-Methylnaphthalene	Total	1.31	1	0.001	0.005	µg/L	1.5	0	87	47 - 130%	PASS
Acenaphthene	Total	1.33	1	0.001	0.005	µg/L	1.5	0	89	53 - 131%	PASS
Acenaphthylene	Total	1.37	1	0.001	0.005	µg/L	1.5	0	91	43 - 140%	PASS
Anthracene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	58 - 135%	PASS
Benz[a]anthracene	Total	1.48	1	0.001	0.005	µg/L	1.5	0	99	55 - 145%	PASS
Benzof[a]pyrene	Total	1.41	1	0.001	0.005	µg/L	1.5	0	94	51 - 143%	PASS
Benzof[b]fluoranthene	Total	1.55	1	0.001	0.005	µg/L	1.5	0	103	46 - 165%	PASS
Benzof[e]pyrene	Total	0.474	1	0.001	0.005	µg/L	0.5	0	95	42 - 152%	PASS
Benzof[g,h,i]perylene	Total	1.5	1	0.001	0.005	µg/L	1.5	0	100	63 - 133%	PASS
Benzof[k]fluoranthene	Total	1.48	1	0.001	0.005	µg/L	1.5	0	99	56 - 145%	PASS
Biphenyl	Total	0.451	1	0.001	0.005	µg/L	0.5	0	90	56 - 119%	PASS
Chrysene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	56 - 141%	PASS
Dibenz[a,h]anthracene	Total	1.57	1	0.001	0.005	µg/L	1.5	0	105	55 - 150%	PASS
Dibenzo[a,l]pyrene	Total	0.446	1	0.001	0.005	µg/L	0.5	0	89	50 - 150%	PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODE _c
Dibenzothiophene	Total	0.494	1	0.001	0.005	µg/L	0.5	0	99	75 - 113%	PASS
Fluoranthene	Total	1.57	1	0.001	0.005	µg/L	1.5	0	105	60 - 146%	PASS
Fluorene	Total	1.43	1	0.001	0.005	µg/L	1.5	0	95	58 - 131%	PASS
Indeno[1,2,3-cd]pyrene	Total	1.61	1	0.001	0.005	µg/L	1.5	0	107	50 - 151%	PASS
Naphthalene	Total	1.22	1	0.001	0.005	µg/L	1.5	0	81	41 - 126%	PASS
Perylene	Total	0.483	1	0.001	0.005	µg/L	0.5	0	97	48 - 141%	PASS
Phenanthrene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	67 - 127%	PASS
Pyrene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	54 - 156%	PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODEC
Matrix: BlankMatrix											
Sample ID: 94160-BS2											
QA/QC Procedural Blank											
Method: EPA 625.1											
Batch ID: O-35020											
Prepared: 10-Dec-21											
Analyzed: 18-Dec-21											
(d10-Acenaphthene)	Total	85	1			% Recovery	100	0	85	65 - 113%	PASS 1 30 PASS
(d10-Phenanthrene)	Total	93	1			% Recovery	100	0	93	80 - 111%	PASS 2 30 PASS
(d12-Chrysene)	Total	102	1			% Recovery	100	0	102	60 - 139%	PASS 6 30 PASS
(d12-Perylene)	Total	93	1			% Recovery	100	0	93	36 - 161%	PASS 2 30 PASS
(d8-Naphthalene)	Total	77	1			% Recovery	100	0	77	44 - 119%	PASS 1 30 PASS
1-Methylnaphthalene	Total	0.436	1	0.001	0.005	µg/L	0.5	0	87	49 - 117%	PASS 1 30 PASS
1-Methylphenanthrene	Total	0.526	1	0.001	0.005	µg/L	0.5	0	105	66 - 127%	PASS 3 30 PASS
2,3,5-Trimethylnaphthalene	Total	0.466	1	0.001	0.005	µg/L	0.5	0	93	57 - 120%	PASS 1 30 PASS
2,6-Dimethylnaphthalene	Total	0.449	1	0.001	0.005	µg/L	0.5	0	90	54 - 117%	PASS 0 30 PASS
2-Methylnaphthalene	Total	1.31	1	0.001	0.005	µg/L	1.5	0	87	47 - 130%	PASS 0 30 PASS
Acenaphthene	Total	1.33	1	0.001	0.005	µg/L	1.5	0	89	53 - 131%	PASS 0 30 PASS
Acenaphthylene	Total	1.37	1	0.001	0.005	µg/L	1.5	0	91	43 - 140%	PASS 0 30 PASS
Anthracene	Total	1.47	1	0.001	0.005	µg/L	1.5	0	98	58 - 135%	PASS 1 30 PASS
Benz[a]anthracene	Total	1.57	1	0.001	0.005	µg/L	1.5	0	105	55 - 145%	PASS 6 30 PASS
Benzofluoranthene	Total	1.42	1	0.001	0.005	µg/L	1.5	0	95	51 - 143%	PASS 1 30 PASS
Benzofluoranthene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	46 - 165%	PASS 3 30 PASS
Benzofluoranthene	Total	0.476	1	0.001	0.005	µg/L	0.5	0	95	42 - 152%	PASS 0 30 PASS
Benzofluoranthene	Total	1.51	1	0.001	0.005	µg/L	1.5	0	101	63 - 133%	PASS 1 30 PASS
Benzofluoranthene	Total	1.51	1	0.001	0.005	µg/L	1.5	0	101	56 - 145%	PASS 2 30 PASS
Biphenyl	Total	0.449	1	0.001	0.005	µg/L	0.5	0	90	56 - 119%	PASS 0 30 PASS
Chrysene	Total	1.53	1	0.001	0.005	µg/L	1.5	0	102	56 - 141%	PASS 5 30 PASS
Dibenz[a,h]anthracene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	55 - 150%	PASS 1 30 PASS
Dibenzofluoranthene	Total	0.438	1	0.001	0.005	µg/L	0.5	0	88	50 - 150%	PASS 1 30 PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY LIMITS	PRECISION LIMITS	QA CODE _c
									%	%	
Dibenzothiophene	Total	0.503	1	0.001	0.005	µg/L	0.5	0	101 75 - 113% PASS	2 30 PASS	
Fluoranthene	Total	1.64	1	0.001	0.005	µg/L	1.5	0	109 60 - 146% PASS	4 30 PASS	
Fluorene	Total	1.43	1	0.001	0.005	µg/L	1.5	0	95 58 - 131% PASS	0 30 PASS	
Indeno[1,2,3-cd]pyrene	Total	1.6	1	0.001	0.005	µg/L	1.5	0	107 50 - 151% PASS	0 30 PASS	
Naphthalene	Total	1.21	1	0.001	0.005	µg/L	1.5	0	81 41 - 126% PASS	0 30 PASS	
Perylene	Total	0.485	1	0.001	0.005	µg/L	0.5	0	97 48 - 141% PASS	0 30 PASS	
Phenanthrene	Total	1.47	1	0.001	0.005	µg/L	1.5	0	98 67 - 127% PASS	1 30 PASS	
Pyrene	Total	1.66	1	0.001	0.005	µg/L	1.5	0	111 54 - 156% PASS	5 30 PASS	

PHAS

Total Ion chromatogram

TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL TECHNOLOGIES, INC.
Innovative Solutions for Nature

Sample ID: 94161

RT	Area Pct	Concentration (ng/L)	Library/ID	Qual	Cas Number
35.2260	6.8897	1111	Anthracene-D10-	1517-22-2	94
10.3800	4.8200	777	Cyclohexane, 1-methyl-2-propyl-	4291-79-6	91
10.5675	2.5751	415	Oxalic acid, cyclohexyl propyl ester	1000309-30-3	92
10.3216	2.1620	349	Octane, 3-methyl-6-methylene-	74630-07-2	85
10.1413	1.2072	195	2,3,3-Trimethyl-1-hexene	1000113-52-1	86
44.6375	1.1374	183	Cyclic octaatomic sulfur	10544-50-0	98
10.2107	0.9160	148	Hydroperoxide, 1-ethylbutyl	24254-56-6	88
10.9454	0.8439	136	3,3-Diethoxy-1-propyne	10160-87-9	87
55.1638	0.7974	129	Benzyl butyl phthalate	85-68-7	94
10.1122	0.6744	109	1H-Tetrazole	288-94-8	84

Concentration estimated using the response for Anthracene-d10

Sample ID: 94162

RT	Area Pct	Concentration (ng/L)	Library/ID	Qual	Cas Number
35.2228	5.2722	1111	Anthracene-D10-	1719-06-8	96
10.3816	5.3237	1122	Cyclohexane, 1-methyl-2-propyl-	4291-79-6	92
10.5697	2.8146	593	3-Methyl-2-butenic acid, cyclobutyl ester	1000282-89-1	92
10.3228	2.4010	506	Octane, 3-methyl-6-methylene-	74630-07-2	84
10.1426	1.4570	307	2,3,3-Trimethyl-1-hexene	1000113-52-1	87
10.2114	1.0913	230	Hydroperoxide, 1-ethylbutyl	24254-56-6	84
44.6333	0.8303	175	Cyclic octaatomic sulfur	10544-50-0	97
10.1136	0.7471	157	1H-Tetrazole	288-94-8	85
10.9093	0.6823	144	Oxalic acid, cyclohexyl isobutyl ester	1000309-30-4	88
10.9093	0.5621	118	3,3-Diethoxy-1-propyne	10160-87-9	84
10.2643	0.5452	115	Sulfurous acid, di(cyclohexylmethyl) ester	1010309-22-7	84

Concentration estimated using the response for Anthracene-d10

Sample ID: Lab Blank B1_35020

RT	Area Pct	Concentration (ng/L)	Library/ID	Qual	Cas Number
35.2484	4.3834	1111	Anthracene-D10-	1719-06-8	96
10.5750	3.2708	829	Oxalic acid, cyclohexyl ethyl ester	1000309-30-2	93
10.3837	2.7910	707	Cyclohexane, 1-methyl-2-propyl-	4291-79-6	92
10.2157	1.1376	288	Hydroperoxide, 1-ethylbutyl	24254-56-6	83
10.3248	0.9055	230	Octane, 3-methyl-6-methylene-	74630-07-2	82
10.1452	0.7049	179	Oxalic acid, cyclohexyl isohexyl ester	1010309-30-7	85
10.9132	0.6785	172	1-Butene, 2,3,3-trimethyl-	594-56-9	89
10.1454	0.6287	159	2-Heptene, 5-ethyl-2,4-dimethyl-	74421-06-0	85
10.3369	0.4896	124	2-Methylbutanoic anhydride	1468-39-9	82
10.9521	0.4129	105	Oxalic acid, cyclohexyl isobutyl ester	1000309-30-4	93

Concentration estimated using the response for Anthracene-d10

CHAIN OF CUSTODY

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

Project Iteration ID: 1407003-204
Client Name: Eurofins Eaton Analytical
Project Name: Folder # 974932 Job # 1000014
COC Page Number: 1 of 1
Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: [Signature]
2. Date Received: 01/14/01
3. Time Received: 1703
4. Client Name: Eurofins
5. Courier Information: (Please circle)
 - ☒ Client
 - ☐ FedEx
 - ☐ UPS
 - ☐ GSO/GLS
 - ☐ Area Fast
 - ☐ Ontrac
 - ☐ DRS
 - ☐ PAMS
 - PHYSIS Driver:
 - i. Start Time: _____
 - ii. End Time: _____
 - iii. Total Mileage: _____
 - iv. Number of Pickups: _____
6. Container Information: (Please put the # of containers or circle none)
 - ☒ 3 Cooler
 - ☐ Styrofoam Cooler
 - ☐ Boxes
 - ☐ None
 - ☐ Carboy(s)
 - ☐ Carboy Trash Can(s)
 - ☐ Carboy Cap(s)
 - ☐ Other _____
7. What type of ice was used: (Please circle any that apply)
 - ☐ Wet Ice
 - ☐ Blue Ice
 - ☐ Dry Ice
 - ☐ Water
 - ☐ None
8. Randomly Selected Samples Temperature (°C): 1.5
Used I/R Thermometer # 1-2

Inspection Info

1. Initials Inspected By: [Signature]

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out..... Yes / ☒ No
2. All sample containers arrived intact..... ☒ Yes / No
3. All samples listed on COC(s) are present..... Yes / ☒ No
4. Information on containers consistent with information on COC(s)..... Yes / ☒ No
5. Correct containers and volume for all analyses indicated..... ☒ Yes / No
6. All samples received within method holding time..... ☒ Yes / No
7. Correct preservation used for all analyses indicated..... ☒ Yes / No
8. Name of sampler included on COC(s)..... Yes / ☒ No

Notes:

No COC.



Eaton Analytical

Ship To:
Physis Environmental Laboratories,
Inc
1904 East Wright Circle
Anaheim, CA 92806-6028

Phone: 714-602-5320 Fax:

Folder #: 974932 Report Due: 12/17/2021

Submittal Form

Date: 12/14/2021

***REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!**

Report & Invoice must have the Folder # 974932 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.

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

RUSH

Sample ID	Client Sample ID for reference onl	Sample	Date & Time	Matrix	Clip Code	PWSID	JLS
202112140293	Pearl City I		12/13/21	1123	DW		
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:			

Method Analysis Requested

EPA 625 625 Acid Extractable in ug/L
EPA 625 625 Base Neutral Extractable in ug/L
EPA 625 625PAH in ug/L

Sample ID	Client Sample ID for reference onl	Sample	Date & Time	Matrix	Clip Code	PWSID	JLS
202112140295	Pearl City Shaft		12/13/21	1155	DW		
Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:			

Method Analysis Requested

EPA 625 625 Acid Extractable in ug/L
EPA 625 625 Base Neutral Extractable in ug/L
EPA 625 625PAH in ug/L

Relinquished by: Sample Control Date Time
Received by: Date Time
Relinquished by: Sample Control Date Time
Received by: Date Time

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras