eurofins | Eaton Analytical

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Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

A2LA ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

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

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Date of Issue
12/18/2021

EUROFINS EATON ANALYTICAL, LLC

DEB: Debbie L Frank
Project Manager

Report: 973697
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
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalert	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x	
Acrylamide	+LCMS 2440)	x	
Algal Toxins/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-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	x	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	x	x
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+LCMS-3618	x	
Gross Alpha and Gross Beta	EPA 900.0	x	x

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides 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

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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 #: 973697
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 08, 2021** at **1354**. 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
202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	12/07/2021 1034

@ICPMS	@504MOD C	@525PLUS C PLUS TICS
@625A_Physis C	@625BN_Physis C	@625PAH_Physis_TICS_C
@8015 Ethanol_Subbed	@VOASDWA C plus plus TICs C	(SUB)Gas Fraction Hydrocarbons
Calcium Total ICAP	Chloride	Magnesium Total ICAP
Mercury ICPMS	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC
Potassium Total ICAP	Sodium Total ICAP	Sulfate
Miscellaneous Charges	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5
TPH 8015 Jef Fuel 8		

Sample #	Sample ID	Sample Date
202112080668	TRAVEL BLANK::HALAWA WELLS (331-206-TP065)	12/07/2021 1034

@504MOD TB C	@VOASDWA C plus plus TICs TBC	(SUB)Gas Fraction Hydrocarbons

Sample #	Sample ID	Sample Date
202112090296	RUSH 625 524 8015 200.8 525	12/07/2021 10:34

RUSH

Test Description

@ICPMS -- ICPMS Metals
@504MOD C -- EPA Method 504.1
@504MOD TB C -- EPA Method 504.1
@525PLUS C PLUS TICS -- Semivolatiles by GCMS
@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

eurofins

Eaton Analytical

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

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

CHAIN OF CUSTODY RECORD

973697

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: JD

_____ SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 5.0 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen ✓ Partially Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:	PROJECT CODE:	COMPLIANCE SAMPLES (check for yes) ☐	NON-COMPLIANCE SAMPLES (check for yes) X
BWS HONOLULU	RED HILL	- Requires state forms ☐	REGULATION INVOLVED:
EEA CLIENT CODE: / COC ID:	SAMPLE GROUP:	Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)	
		SEE ATTACHED BOTTLE ORDER FOR ANALYSES X (check for yes), *OR*	
		list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	

TAT requested: rush by adv notice only STD __ 1 wk X 3 day __ 2 day __ 1 day __

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Red Hill Dec 2021	SAMPLER COMMENTS
12/07/21	1034	Halawa Wells units 1 & 2	HI0000331-206	CFW			X	
								Temp Blank:_____°C

* **MATRIX TYPES:** **RSW** = Raw Surface Water **CFW** = Chlor(am)inated Finished Water **SEAW** = Sea Water **BW** = Bottled Water **SO** = Soil **O** = Other - Please Identify
RGW = Raw Ground Water **FW** = Other Finished Water **WW** = Waste Water **SW** = Storm Water **SL** = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Lew Bailey	Honolulu Board of Water Supply	December 7, 2021	
RELINQUISHED BY:		Lew Bailey	Honolulu Board of Water Supply	07 Dec. 2021	1400
RECEIVED BY:		Joe Sanchez	EEP	12/8/21	1359
RELINQUISHED BY:					
RECEIVED BY:					

PAGE 1 OF 1

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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 = 631P (Observation= 5.2 °C) (Corr.Factor -0.2 °C) (Final = 5.0 °C)

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

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

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

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

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

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

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

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: ________ Expiration Date: ________ Results ____________

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

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

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

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

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

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:			Eurofins Eaton Analytical		
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 973697

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 = 63 iA (Observation= 1.8 °C) (Corr.Factor -0.2 °C) (Final = 1.6 °C)

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

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

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

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

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

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

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

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

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

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

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

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

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

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	[signature]	Joe Sanchez	Eurofins Eaton Analytical	12/8/21	132
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

Page ___ of ___

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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= 3.6 °C) (Corr.Factor -0.2 °C) (Final = 3.4 °C)

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

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

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

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

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

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

5) **pH Check.** Manufacturer: ____________ Lot Number: ________ pH strip type: 0 - 14 or ________ Expiration Date ________ Results: ______

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: ________ Expiration Date: ________ Results ____________

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

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

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	[signature]	Joe Sanchez	Eurofins Eaton Analytical	12/8/21	1238
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

Page ___ of ___

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Kit Order for Honolulu Board of Water Supply

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

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

Created Date & Time: 11/29/2021 5:32:01PM

Note: Sampler Please return this paper with your samples

Kit #: 306027

Created By: Debbie L Frank - [DEB]
Deliver By: 12/06/2021
STG: Bottle Orders
Ice Type: G

Client ID: HONOLULU
Project Code: RED-HILL Bottle Orders
Group Name: Red-Hill Expanded List (Albuquerque+)
PO#/JOB#: C20525101 exp 05312023
Description: HALAWA WELLS UNITS 1 & 2 - S

Ship Sample Kits to
Honolulu Board of Water Supply
630 South Beretania Street
Chemistry Lab
Honolulu, HI 96843

Attn: Ron Fenstemacher
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 as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 - 125ml poly [no preservative]	1	
1	@625A_Physis C	1 - 1L amber glass [1 ml Thio 8%]	1	
1	@625BN_Physis C	1 - 1L amber glass [1 ml Thio 8%]	1	
1	@625PAH_Physis_TICS_C	2 - 1L amber glass [1 ml Thio 8%]	2	
1	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8_C	6 - 1L amber glass [1 ml Thio 8%]	6	
1	@525PLUS C PLUS TICS	2 - 1L amber glass [45mg Sulfite xls+1 vial 2 ml 6N HCl]	2	UN1789
1	Fluoride	1 - 250 ml 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	3 - 40 ml VOA vial [25 mg AA + drop 2ml 1:1 HCL]	3	UN1789
1	Acetone by 624_Subbed C	3 - 40ml amber glass vial [1 drop 8% thio+2ml BOT 1:1 HCL]	3	UN1789
1	Acetone by 624_Subbed C TB	2 - 40ml amber glass vial [1 drop 8% thio+2mlBOT HCL+H2O]	2	UN1789
1	@504MOD C	3 - 40ml amber glass vial [1 drop Thio (8%)]	3	
1	@505_EAL, @ML505	3 - 40ml amber glass vial [1 drop Thio (8%)]	3	
1	8015 Gas_C	3 - 40ml amber glass vial [1 drop Thio (8%)]	3	
1	@504MOD TB C	2 - 40ml amber glass vial [1 drop Thio (8%) + H20]	2	
1	8015 Gas_C TB	2 - 40ml amber glass vial [1 drop Thio (8%) + H20]	2	
1	@VOASDWA C plus plus TICs TBC	3 - 40ml amber glass vial [25mg AA+ H20+10 drop 1:1 HCL]	3	UN1789
1	@VOASDWA C plus plus TICs C 505 Vials Reid	3 - 40ml amber glass vial [25mg Ascorbic+drop 2ml 1:1 HCL]	3	UN1789
1	@8015 Ethanol_Subbed	3 - 40ml amber glass vial [no preservative] Vials with thio Reid. Used 1 of 3 TBA Vials.	3	
1	@VOA-TBA TB C	2 - 40ml amber glass vial [TBA_25mg AA+ H20+10 drop 1:1 HCL]	2	
1	@ICPMS, Calcium 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	

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Kit Order for Honolulu Board of Water Supply

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

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

Created Date & Time: 11/29/2021 5:32:01PM

Note: Sampler Please return this paper with your samples

Kit #: 306027

Created By: Debbie L Frank - [DEB]
Deliver By: 12/06/2021
STG: Bottle Orders
Ice Type: G

Client ID: HONOLULU
Project Code: RED-HILL Bottle Orders
Group Name: Red-Hill Expanded List (Albuquerque+)
PO#/JOB#: C20525101 exp 05312023
Description: HALAWA WELLS UNITS 1 & 2 - S

Ship Sample Kits to
Honolulu Board of Water Supply
630 South Beretania Street
Chemistry Lab
Honolulu, HI 96843

Attn: Ron Fenstemacher
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 #

Sum Tests: 23

Sum Bottles: 50

Comments

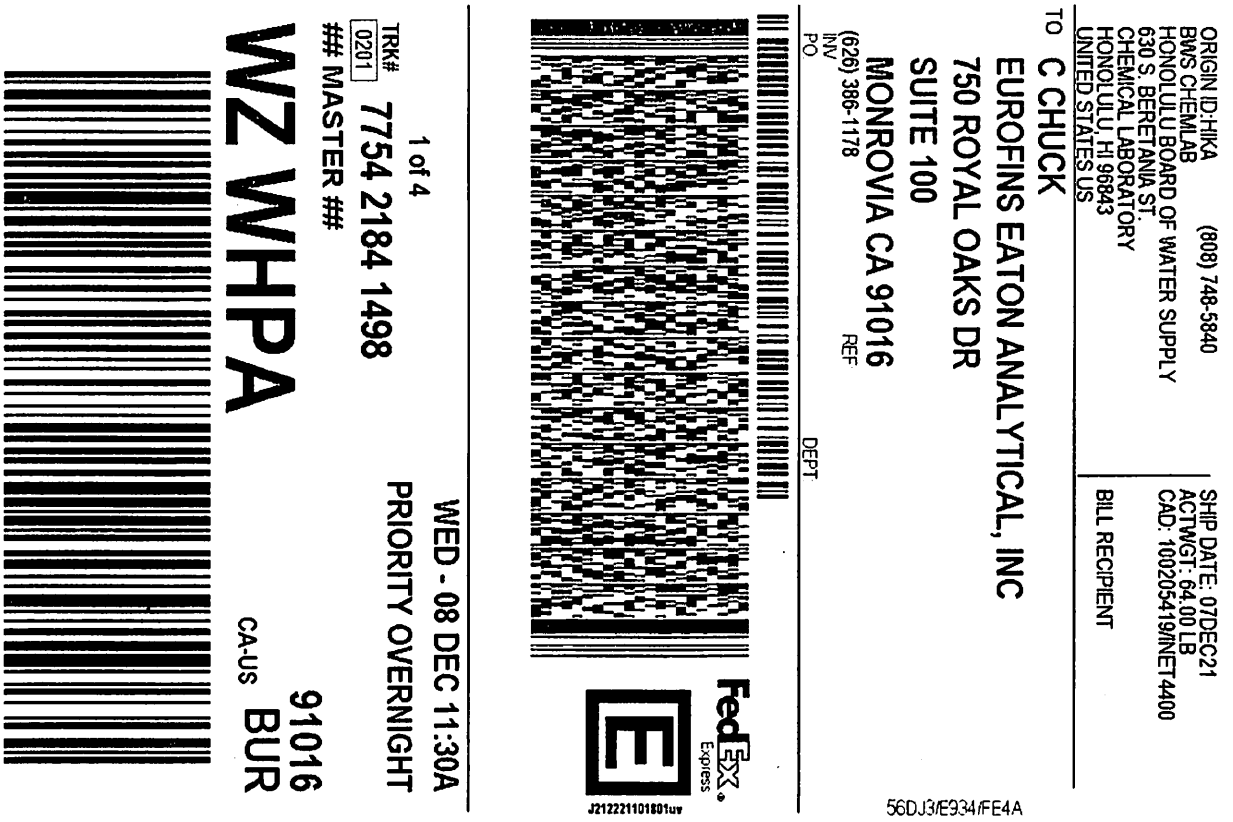
SITE ID:
HALAWA WELLS (331-206-TP065)

SAMPLER:
FOUR 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND SIX 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES.

SHIPPING:
Travel Blanks - TBA/MTBE, VOASDWA - Prepare TBs in the VOA LAB.
Label Cooler on TOP and right below both Handles with Site description of contents (use extra Container Labels)

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

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



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
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 ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

SHIP DATE: 07DEC21
ACTWGT: 50.00 LB
CAD: 100205419/INET4400

BILL RECIPIENT

TO C CHUCK
EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016
(626) 386-1178

INV
PO
REF
DEPT

56DJ3/E934/FE4A

J212221101801uv

FedEx Express

WED - 08 DEC 11:30A
PRIORITY OVERNIGHT

2 of 3

MPS# 0263 7754 2012 5555 0201
Mstr# 7754 2012 4880

WZ WHPA
91016
CA-US BUR

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

SHIP DATE: 07DEC21
ACTWGT: 64.00 LB
CAD: 100205419/INET4400

BILL RECIPIENT

TO C CHUCK
EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016
(626) 386-1178

INV
PO
REF
DEPT

56DJ3/E934/FE4A

J212221101801uv

FedEx Express

WED - 08 DEC 11:30A
PRIORITY OVERNIGHT

3 of 4
MPS# 0263 7754 2184 1899
Mstr# 7754 2184 1498 0201

WZ WHPA

91016
CA-US BUR

After printing this label:
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Tel: (626) 386-1100
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1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 973697
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 625 PAHs, Acids and BNAs are submitted by Physis Environmental Laboratories, Inc.
Results for Ethanol, TPH Gasoline, TPH Diesel, Motor Oil and Jet Fuels are submitted by EMAX Laboratories

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

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)
202112080667 524.2 TICs None Detected
202112080668 524.2 TICs

Compound	Estimated Retention Time	Estimated Concentration
Unknown compound	1.305 minutes	2.16 ug/L
Furfural	9.584 minutes	1.92 ug/L

@525.2 (SVOC by GCMS)
202112080667 @525.2 TICs - None detected.

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

(625-SVOC)
Benzoic Acid is not regulated. It is a common artifact. No impact
N1 - see acid fraction.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Comments

Report: 973697
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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.

N1 - See case narrative.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits

Report: 973697
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:
12/08/2021 1354

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
	202112080667	**HALAWA WELLS UNITS 1&2 - 331-206-TP065**				
12/12/2021 00:00	Benzoic acid		0.28		ug/L	0.2
12/13/2021 18:57	Calcium Total ICAP		30		mg/L	1.0
12/08/2021 19:10	Chloride		170	250	mg/L	2.5
12/09/2021 19:18	Chromium Total ICAP/MS		2.1	100	ug/L	1.0
12/13/2021 18:57	Magnesium Total ICAP		29		mg/L	0.10
12/08/2021 19:10	Nitrate as Nitrogen by IC		1.8	10	mg/L	0.25
12/13/2021 18:57	Potassium Total ICAP		4.2		mg/L	1.0
12/13/2021 18:57	Sodium Total ICAP		78		mg/L	1.0
12/08/2021 19:10	Sulfate		38	250	mg/L	2.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data

Report: 973697
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:
12/08/2021 1354

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
HALAWA WELLS UNITS 1&2 - 331-206-TP065 (202112080667)							**Sampled on 12/07/2021 1034**		
		EPA 200.8 - ICPMS Metals							
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.50	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Chromium Total ICAP/MS	2.1	ug/L	1.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.50	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.50	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1.0	1
12/08/21	12/09/21 19:18	1372322	1372557	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
		EPA 200.7 - ICP Metals							
12/08/21	12/13/21 18:57	1372322	1373306	(EPA 200.7)	Calcium Total ICAP	30	mg/L	1.0	1
12/08/21	12/13/21 18:57	1372322	1373306	(EPA 200.7)	Magnesium Total ICAP	29	mg/L	0.10	1
12/08/21	12/13/21 18:57	1372322	1373306	(EPA 200.7)	Potassium Total ICAP	4.2	mg/L	1.0	1
12/08/21	12/13/21 18:57	1372322	1373306	(EPA 200.7)	Sodium Total ICAP	78	mg/L	1.0	1
		EPA 200.8 - Mercury ICPMS							
12/08/21	12/09/21 19:18	1372322	1372558	(EPA 200.8)	Mercury ICPMS	ND	ug/L	0.20	1
		EPA 504.1 - EPA Method 504.1							
12/10/21	12/11/21 01:16	1372890	1371035	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.040	1
12/10/21	12/11/21 01:16	1372890	1371035	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.010	1
12/10/21	12/11/21 01:16	1372890	1371035	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.010	1
12/10/21	12/11/21 01:16	1372890	1371035	(EPA 504.1)	1,2-Dibromopropane	100	%		1
		EPA 525.2 - Semivolatiles by GCMS							
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	2,4-DDD	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	2,4-DDE	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	2,4-DDT	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	4,4-DDD	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	4,4-DDE	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	4,4-DDT	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Acenaphthene	ND	ug/L	0.10	1

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

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1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 973697
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:
12/08/2021 1354

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Acetochlor	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Alachlor	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Anthracene	ND	ug/L	0.020	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Atrazine	ND (R7,LK)	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.020	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.020	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.020	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Beta-BHC	ND (R7,LK)	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Bromacil	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Butachlor	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.50	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Caffeine by method 525mod	ND (R7)	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Chloroneb	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Chrysene	ND	ug/L	0.020	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Delta-BHC	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.60	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.60	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Diazinon (Qualitative)	ND (R7)	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Dibenz(a,h)Anthracene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Dieldrin	ND	ug/L	0.20	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Diethylphthalate	ND (LK)	ug/L	0.50	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Dimethoate	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.50	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1.0	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.10	1

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

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

Laboratory Data

Report: 973697
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:
12/08/2021 1354

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Endrin	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	EPTC	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Fluoranthene	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Fluorene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Heptachlor	ND	ug/L	0.040	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Hexachlorocyclopentadiene	ND (R7)	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Isophorone	ND (R7)	ug/L	0.50	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Lindane	ND (R7)	ug/L	0.040	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Malathion	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Methoxychlor	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Metolachlor	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Metribuzin	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Molinate	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Naphthalene	ND	ug/L	0.30	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Parathion	ND (LK)	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Pendimethalin	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.20	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Phenanthrene	ND	ug/L	0.040	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Propachlor	ND (R7,LK)	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Pyrene	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Simazine	ND (R7,LK)	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Terbacil	ND	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Terbuthylazine	ND (R7,LK)	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.20	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.050	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Trifluralin	ND (R7,LK)	ug/L	0.10	1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	99	%		1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Acenaphthene-d10	98	%		1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Chrysene-d12	92	%		1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Perylene-d12	81	%		1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Phenanthrene-d10	100	%		1
12/09/21	12/11/21 11:34	1372484	1373180	(EPA 525.2)	Triphenylphosphate	108	%		1

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		EPA 300.0 - Nitrate, Nitrite by EPA 300.0							
	12/08/21 19:10		1372471	(EPA 300.0)	Nitrate as Nitrogen by IC	1.8	mg/L	0.25	5
	12/08/21 19:10		1372471	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.25	5
		EPA 300.0 - Chloride, Sulfate by EPA 300.0							
	12/08/21 19:10		1372475	(EPA 300.0)	Chloride	170	mg/L	2.5	5
	12/08/21 19:10		1372475	(EPA 300.0)	Sulfate	38	mg/L	2.5	5
		SW 8015B - (SUB)Gas Fraction Hydrocarbons							
12/10/21	12/10/21 19:23			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B - TPH 8015 Diesel and Motor Oil							
12/09/21	12/10/21 19:08			(SW 8015B)	TPH Diesel	ND	mg/L	0.026	1
12/09/21	12/10/21 19:08			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1
		EPA 8015 - Jet Fuel 5 C8-C18							
12/09/21	12/10/21 19:08			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.052	1
		EPA 625 - 625PAH in ug/L							
12/09/21	12/12/21 00:00			(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	2,4,6-Trichlorophenol	NA (N1)	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Acenaphthene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Anthracene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Chrysene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Fluoranthene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1

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12/09/21	12/12/21 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Pentachlorophenol	NA	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	1
12/09/21	12/12/21 00:00			(EPA 625)	Pyrene	ND	ug/L	0.005	1
		EPA 8015 - Jet Fuel 8 C8-C18							
	12/10/21 19:08			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.052	1
		EPA 625 - 625 Acid Extractable in ug/L							
12/09/21	12/12/21 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzoic acid	0.28	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1
12/09/21	12/12/21 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
		EPA 625 - 625 Base Neutral Extractable in ug/L							
12/09/21	12/12/21 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1

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12/09/21	12/12/21 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
12/09/21	12/12/21 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
		SW8015C - Ethanol							
	12/09/21 12:43			(SW8015C)	Ethanol	ND	ug/L	2000	1
		EPA 524.2 - Volatile Organics by GCMS							
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Acetone	ND (FB)	ug/L	500	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1

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12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1

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1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 973697
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:
12/08/2021 1354

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	1,2-Dichloroethane-d4	101	%		1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	4-Bromofluorobenzene	99	%		1
12/09/21	12/09/21 18:55	1372837	1372838	(EPA 524.2)	Toluene-d8	94	%		1
TRAVEL BLANK::HALAWA WELLS (331-206-TP065) (202112080668)							**Sampled on 12/07/2021 1034**		
			EPA 504.1 - EPA Method 504.1						
12/10/21	12/11/21 00:11	1372890	1371035	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.040	1
12/10/21	12/11/21 00:11	1372890	1371035	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.010	1
12/10/21	12/11/21 00:11	1372890	1371035	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.010	1
12/10/21	12/11/21 00:11	1372890	1371035	(EPA 504.1)	1,2-Dibromopropane	94	%		1
			SW 8015B - (SUB)Gas Fraction Hydrocarbons						
12/10/21	12/10/21 20:03			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
			EPA 524.2 - Volatile Organics by GCMS						
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,3,5-Trimethylbenzene	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: 973697
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:
12/08/2021 1354

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Acetone	ND	ug/L	500	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1

Rounding on totals after summation.
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Laboratory Data

Report: 973697
Project: RED-HILL
Group: Red-Hill Expanded List (Albuquerque+)

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

Samples Received on:
12/08/2021 1354

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	1,2-Dichloroethane-d4	101	%		1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	4-Bromofluorobenzene	104	%		1
12/09/21	12/09/21 19:18	1372837	1372838	(EPA 524.2)	Toluene-d8	98	%		1

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Laboratory QC Summary

Report: 973697
Project: RED-HILL
Group: Red-Hill Expanded List (Albuquerque+)

Honolulu Board of Water Supply

EPA Method 504.1

Prep Batch: 1372890 Analytical Batch: 1371035 **Analysis Date: 12/11/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: DYM
202112080668	TRAVEL BLANK::HALAWA WELLS (331-206-TP065)	Analyzed by: DYM

Nitrate, Nitrite by EPA 300.0

Analytical Batch: 1372471 **Analysis Date: 12/08/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: LUPE

Chloride, Sulfate by EPA 300.0

Analytical Batch: 1372475 **Analysis Date: 12/08/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: LUPE

ICPMS Metals

Prep Batch: 1372322 Analytical Batch: 1372557 **Analysis Date: 12/09/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: DHX7

Mercury ICPMS

Prep Batch: 1372322 Analytical Batch: 1372558 **Analysis Date: 12/09/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: DHX7

Volatile Organics by GCMS

Prep Batch: 1372837 Analytical Batch: 1372838 **Analysis Date: 12/09/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: KCP
202112080668	TRAVEL BLANK::HALAWA WELLS (331-206-TP065)	Analyzed by: KCP

Semivolatiles by GCMS

Prep Batch: 1372484 Analytical Batch: 1373180 **Analysis Date: 12/11/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: PAC

ICP Metals

Prep Batch: 1372322 Analytical Batch: 1373306 **Analysis Date: 12/13/2021**

202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	Analyzed by: Y7TT

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Laboratory QC

Report: 973697
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Group: Red-Hill Expanded List (Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
EPA Method 504.1 by EPA 504.1									
Analytical Batch: 1371035							**Analysis Date: 12/10/2021**		
DUP_202112140228	1,2,3-Trichloropropane	ND		ND	ug/L		(0-20)		
MS_202112140226	1,2,3-Trichloropropane	ND	1.3	1.26	ug/L	101	(65-135)		
CCCH	1,2-Dibromo-3-chloropropane		0.25	0.239	ug/L	96	(70-130)		
CCCM2	1,2-Dibromo-3-chloropropane		0.05	0.0482	ug/L	96	(70-130)		
DUP_202112140228	1,2-Dibromo-3-chloropropane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromo-3-chloropropane		0.2	0.204	ug/L	102	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.002	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.00980	ug/L	98	(60-140)		
MRLLW	1,2-Dibromo-3-chloropropane		0.008	0.00800	ug/L	100	(60-140)		
MS_202112140226	1,2-Dibromo-3-chloropropane	ND	0.25	0.247	ug/L	99	(65-135)		
CCCH	1,2-Dibromoethane		0.25	0.252	ug/L	101	(70-130)		
CCCM2	1,2-Dibromoethane		0.05	0.0487	ug/L	97	(70-130)		
DUP_202112140228	1,2-Dibromoethane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromoethane		0.2	0.198	ug/L	99	(70-130)		
MBLK	1,2-Dibromoethane			<0.003	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.00780	ug/L	78	(60-140)		
MRLLW	1,2-Dibromoethane		0.008	0.00700	ug/L	88	(60-140)		
MS_202112140226	1,2-Dibromoethane	ND	0.25	0.257	ug/L	103	(65-135)		
CCCH	1,2-Dibromopropane (S)		100	100	%	100	(60-140)		
CCCM2	1,2-Dibromopropane (S)		100	106	%	106	(60-140)		
DUP_202112140228	1,2-Dibromopropane (S)		100	96.4	%	96	(60-140)		
LCS2	1,2-Dibromopropane (S)		100	98.0	%	98	(60-140)		
MBLK	1,2-Dibromopropane (S)			99.4	%	99	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)		100	102	%	102	(60-140)		
MRLLW	1,2-Dibromopropane (S)		100	102	%	102	(60-140)		
MS_202112140226	1,2-Dibromopropane (S)		100	101	%	101	(60-140)		
Nitrate, Nitrite by EPA 300.0 by EPA 300.0									
Analytical Batch: 1372471							**Analysis Date: 12/08/2021**		
LCS1	Nitrate as Nitrogen by IC		2.5	2.44	mg/L	98	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.39	mg/L	96	(90-110)	20	2.1
MBLK	Nitrate as Nitrogen by IC			<0.0042	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0515	mg/L	103	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0143	mg/L	114	(50-150)		
MS_202112080607	Nitrate as Nitrogen by IC	0.40	1.3	6.71	mg/L	101	(80-120)		
MS_202112090605	Nitrate as Nitrogen by IC	ND	1.3	2.39	mg/L	92	(80-120)		

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: 973697
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%
MSD_202112080607	Nitrate as Nitrogen by IC	0.40	1.3	6.79	mg/L	102	(80-120)	20	1.1
MSD_202112090605	Nitrate as Nitrogen by IC	ND	1.3	2.71	mg/L	105	(80-120)	20	13
LCS1	Nitrite Nitrogen by IC		1	0.954	mg/L	95	(90-110)		
LCS2	Nitrite Nitrogen by IC		1	0.936	mg/L	94	(90-110)	20	1.8
MBLK	Nitrite Nitrogen by IC			<0.0050	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0456	mg/L	91	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.00990	mg/L	79	(50-150)		
MS_202112080607	Nitrite Nitrogen by IC	ND	0.5	2.31	mg/L	93	(80-120)		
MS_202112090605	Nitrite Nitrogen by IC	ND	0.5	0.877	mg/L	88	(80-120)		
MSD_202112080607	Nitrite Nitrogen by IC	ND	0.5	2.34	mg/L	94	(80-120)	20	1.1
MSD_202112090605	Nitrite Nitrogen by IC	ND	0.5	1.00	mg/L	101	(80-120)	20	14
Chloride, Sulfate by EPA 300.0 by EPA 300.0									
Analytical Batch: 1372475						**Analysis Date: 12/08/2021**			
LCS1	Chloride		25	25.0	mg/L	100	(90-110)		
LCS2	Chloride		25	24.6	mg/L	98	(90-110)	20	1.6
MBLK	Chloride			<0.1397	mg/L				
MRL_CHK	Chloride		0.5	0.454	mg/L	91	(50-150)		
MS_202112080607	Chloride	99	13	165	mg/L	106	(80-120)		
MS_202112090605	Chloride	15	13	39.7	mg/L	100	(80-120)		
MSD_202112080607	Chloride	99	13	166	mg/L	107	(80-120)	20	0.37
MSD_202112090605	Chloride	15	13	43.2	mg/L	114	(80-120)	20	8.4
LCS1	Sulfate		50	49.7	mg/L	99	(90-110)		
LCS2	Sulfate		50	48.8	mg/L	98	(90-110)	20	1.8
MBLK	Sulfate			<0.0614	mg/L				
MRL_CHK	Sulfate		1	0.960	mg/L	96	(50-150)		
MRLLW	Sulfate		0.25	0.268	mg/L	107	(50-150)		
MS_202112080607	Sulfate	13	25	142	mg/L	103	(80-120)		
MS_202112090605	Sulfate	74	25	122	mg/L	97	(80-120)		
MSD_202112080607	Sulfate	13	25	144	mg/L	105	(80-120)	20	1.1
MSD_202112090605	Sulfate	74	25	129	mg/L	110	(80-120)	20	5.3
ICPMS Metals by EPA 200.8									
Analytical Batch: 1372557						**Analysis Date: 12/09/2021**			
LCS1	Antimony Total ICAP/MS		50	50.9	ug/L	102	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	2.4
MBLK	Antimony Total ICAP/MS			<0.2437	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1	1.06	ug/L	106	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202112020397	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)		
MS2_202112080103	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)		
MSD_202112020397	Antimony Total ICAP/MS	ND	50	52.7	ug/L	105	(70-130)	20	1.1
MSD2_202112080103	Antimony Total ICAP/MS	ND	50	51.1	ug/L	102	(70-130)	20	2.2
LCS1	Arsenic Total ICAP/MS		50	51.0	ug/L	102	(85-115)		
LCS2	Arsenic Total ICAP/MS		50	50.2	ug/L	100	(85-115)	20	1.6
MBLK	Arsenic Total ICAP/MS			<0.4134	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1	1.02	ug/L	102	(50-150)		
MS_202112020397	Arsenic Total ICAP/MS	2.5	50	54.5	ug/L	104	(70-130)		
MS2_202112080103	Arsenic Total ICAP/MS	ND	50	51.3	ug/L	103	(70-130)		
MSD_202112020397	Arsenic Total ICAP/MS	2.5	50	54.9	ug/L	105	(70-130)	20	0.79
MSD2_202112080103	Arsenic Total ICAP/MS	ND	50	50.5	ug/L	101	(70-130)	20	1.7
LCS1	Beryllium Total ICAP/MS		25	25.3	ug/L	101	(85-115)		
LCS2	Beryllium Total ICAP/MS		25	24.9	ug/L	100	(85-115)	20	1.6
MBLK	Beryllium Total ICAP/MS			<0.1106	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1	1.06	ug/L	106	(50-150)		
MS_202112020397	Beryllium Total ICAP/MS	ND	25	26.4	ug/L	105	(70-130)		
MS2_202112080103	Beryllium Total ICAP/MS	ND	25	26.5	ug/L	106	(70-130)		
MSD_202112020397	Beryllium Total ICAP/MS	ND	25	26.3	ug/L	105	(70-130)	20	0.43
MSD2_202112080103	Beryllium Total ICAP/MS	ND	25	26.0	ug/L	104	(70-130)	20	1.8
LCS1	Cadmium Total ICAP/MS		25	25.3	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		25	25.0	ug/L	100	(85-115)	20	1.2
MBLK	Cadmium Total ICAP/MS			<0.0546	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.501	ug/L	100	(50-150)		
MS_202112020397	Cadmium Total ICAP/MS	ND	25	24.7	ug/L	99	(70-130)		
MS2_202112080103	Cadmium Total ICAP/MS	ND	25	24.9	ug/L	100	(70-130)		
MSD_202112020397	Cadmium Total ICAP/MS	ND	25	25.2	ug/L	101	(70-130)	20	2.0
MSD2_202112080103	Cadmium Total ICAP/MS	ND	25	24.2	ug/L	97	(70-130)	20	2.8
LCS1	Chromium Total ICAP/MS		50	50.7	ug/L	101	(85-115)		
LCS2	Chromium Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	2.0
MBLK	Chromium Total ICAP/MS			<0.580	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	0.572	ug/L	57	(50-150)		
MS_202112020397	Chromium Total ICAP/MS	16	50	68.2	ug/L	105	(70-130)		
MS2_202112080103	Chromium Total ICAP/MS	ND	50	50.3	ug/L	100	(70-130)		
MSD_202112020397	Chromium Total ICAP/MS	16	50	68.5	ug/L	105	(70-130)	20	0.41
MSD2_202112080103	Chromium Total ICAP/MS	ND	50	49.5	ug/L	99	(70-130)	20	1.6
LCS1	Copper Total ICAP/MS		50	51.4	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		50	50.3	ug/L	101	(85-115)	20	2.2

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Copper Total ICAP/MS			<1.343	ug/L				
MRL_CHK	Copper Total ICAP/MS		2	1.98	ug/L	99	(50-150)		
MS_202112020397	Copper Total ICAP/MS	ND	50	49.6	ug/L	96	(70-130)		
MS2_202112080103	Copper Total ICAP/MS	ND	50	48.1	ug/L	94	(70-130)		
MSD_202112020397	Copper Total ICAP/MS	ND	50	50.3	ug/L	97	(70-130)	20	1.3
MSD2_202112080103	Copper Total ICAP/MS	ND	50	47.4	ug/L	93	(70-130)	20	1.5
LCS1	Lead Total ICAP/MS		50	50.6	ug/L	101	(85-115)		
LCS2	Lead Total ICAP/MS		50	49.6	ug/L	99	(85-115)	20	2.0
MBLK	Lead Total ICAP/MS			<0.0608	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.506	ug/L	101	(50-150)		
MS_202112020397	Lead Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)		
MS2_202112080103	Lead Total ICAP/MS	ND	50	48.8	ug/L	98	(70-130)		
MSD_202112020397	Lead Total ICAP/MS	ND	50	49.1	ug/L	98	(70-130)	20	0.12
MSD2_202112080103	Lead Total ICAP/MS	ND	50	48.6	ug/L	97	(70-130)	20	0.44
LCS1	Nickel Total ICAP/MS		50	50.5	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.6	ug/L	99	(85-115)	20	1.8
MBLK	Nickel Total ICAP/MS			<0.4959	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5	5.01	ug/L	100	(50-150)		
MS_202112020397	Nickel Total ICAP/MS	9.9	50	58.3	ug/L	97	(70-130)		
MS2_202112080103	Nickel Total ICAP/MS	ND	50	48.4	ug/L	96	(70-130)		
MSD_202112020397	Nickel Total ICAP/MS	9.9	50	58.9	ug/L	98	(70-130)	20	1.1
MSD2_202112080103	Nickel Total ICAP/MS	ND	50	47.9	ug/L	95	(70-130)	20	0.95
LCS1	Selenium Total ICAP/MS		50	51.6	ug/L	103	(85-115)		
LCS2	Selenium Total ICAP/MS		50	51.3	ug/L	103	(85-115)	20	0.58
MBLK	Selenium Total ICAP/MS			<0.6224	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5	5.20	ug/L	104	(50-150)		
MS_202112020397	Selenium Total ICAP/MS	8.3	50	59.8	ug/L	103	(70-130)		
MS2_202112080103	Selenium Total ICAP/MS	ND	50	38.2	ug/L	76	(70-130)		
MSD_202112020397	Selenium Total ICAP/MS	8.3	50	59.4	ug/L	102	(70-130)	20	0.72
MSD2_202112080103	Selenium Total ICAP/MS	ND	50	36.5	ug/L	73	(70-130)	20	4.7
LCS1	Silver Total ICAP/MS		25	24.0	ug/L	96	(85-115)		
LCS2	Silver Total ICAP/MS		25	23.7	ug/L	95	(85-115)	20	1.3
MBLK	Silver Total ICAP/MS			<0.1929	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.511	ug/L	102	(50-150)		
MS_202112020397	Silver Total ICAP/MS	ND	25	23.1	ug/L	92	(70-130)		
MS2_202112080103	Silver Total ICAP/MS	ND	25	22.8	ug/L	91	(70-130)		
MSD_202112020397	Silver Total ICAP/MS	ND	25	23.4	ug/L	94	(70-130)	20	1.3
MSD2_202112080103	Silver Total ICAP/MS	ND	25	22.5	ug/L	90	(70-130)	20	1.3

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Thallium Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Thallium Total ICAP/MS		50	49.1	ug/L	98	(85-115)	20	2.2
MBLK	Thallium Total ICAP/MS			<0.1449	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1	0.982	ug/L	98	(50-150)		
MS_202112020397	Thallium Total ICAP/MS	ND	50	48.8	ug/L	98	(70-130)		
MS2_202112080103	Thallium Total ICAP/MS	ND	50	49.3	ug/L	99	(70-130)		
MSD_202112020397	Thallium Total ICAP/MS	ND	50	49.6	ug/L	99	(70-130)	20	1.6
MSD2_202112080103	Thallium Total ICAP/MS	ND	50	48.2	ug/L	96	(70-130)	20	2.2
LCS1	Zinc Total ICAP/MS		50	52.5	ug/L	105	(85-115)		
LCS2	Zinc Total ICAP/MS		50	51.8	ug/L	104	(85-115)	20	1.3
MBLK	Zinc Total ICAP/MS			<10.62	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.5	ug/L	102	(50-150)		
MS_202112020397	Zinc Total ICAP/MS	ND	50	55.4	ug/L	102	(70-130)		
MS2_202112080103	Zinc Total ICAP/MS	ND	50	50.9	ug/L	100	(70-130)		
MSD_202112020397	Zinc Total ICAP/MS	ND	50	55.4	ug/L	102	(70-130)	20	0.092
MSD2_202112080103	Zinc Total ICAP/MS	ND	50	50.0	ug/L	98	(70-130)	20	1.7
Mercury ICPMS by EPA 200.8									
Analytical Batch: 1372558						**Analysis Date: 12/09/2021**			
LCS1	Mercury ICPMS		0.75	0.745	ug/L	99	(85-115)		
LCS2	Mercury ICPMS		0.75	0.720	ug/L	96	(85-115)	20	3.4
MBLK	Mercury ICPMS			<0.1	ug/L				
MRL_CHK	Mercury ICPMS		0.2	0.193	ug/L	97	(50-150)		
MS_202112090725	Mercury ICPMS	ND	0.75	0.752	ug/L	100	(70-130)		
MS2_202112080103	Mercury ICPMS	ND	0.75	0.693	ug/L	91	(70-130)		
MSD_202112090725	Mercury ICPMS	ND	0.75	0.756	ug/L	100	(70-130)	20	0.53
MSD2_202112080103	Mercury ICPMS	ND	0.75	0.682	ug/L	90	(70-130)	20	1.6
Volatile Organics by GCMS by EPA 524.2									
Analytical Batch: 1372838						**Analysis Date: 12/09/2021**			
LCS1	1,1,1,2-Tetrachloroethane		5	5.07	ug/L	101	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	5.00	ug/L	100	(70-130)	20	1.4
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.86	ug/L	97	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.93	ug/L	99	(70-130)	20	1.4
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	5.16	ug/L	103	(70-130)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	1,1,2,2-Tetrachloroethane		5	4.91	ug/L	98	(70-130)	20	5.0
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1,2-Trichloroethane		5	4.87	ug/L	97	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.80	ug/L	96	(70-130)	20	1.5
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1-Dichloroethane		5	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloroethane		5	4.98	ug/L	100	(70-130)	20	0.81
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.37	ug/L	107	(70-130)		
LCS2	1,1-Dichloroethylene		5	5.26	ug/L	105	(70-130)	20	2.1
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.600	ug/L	120	(50-150)		
LCS1	1,1-Dichloropropene		5	5.16	ug/L	103	(70-130)		
LCS2	1,1-Dichloropropene		5	5.06	ug/L	101	(70-130)	20	2.0
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.93	ug/L	99	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.97	ug/L	99	(70-130)	20	0.81
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,3-Trichloropropane		5	5.00	ug/L	100	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.74	ug/L	95	(70-130)	20	5.3
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.97	ug/L	99	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.07	ug/L	101	(70-130)	20	2.0
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	5.30	ug/L	106	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.21	ug/L	104	(70-130)	20	1.7
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,2-Dichloroethane		5	5.06	ug/L	101	(70-130)		
LCS2	1,2-Dichloroethane		5	5.01	ug/L	100	(70-130)	20	0.99
MBLK	1,2-Dichloroethane			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Report: 973697
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	1,2-Dichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	98.2	%	98	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	98.2	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			99.6	%	100	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	99.8	%	100	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)		5	98.8	%	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	5.35	ug/L	107	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.23	ug/L	105	(70-130)	20	2.3
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,3-Dichloropropane		5	4.93	ug/L	99	(70-130)		
LCS2	1,3-Dichloropropane		5	4.84	ug/L	97	(70-130)	20	1.8
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	2,2-Dichloropropane		5	4.76	ug/L	95	(70-130)		
LCS2	2,2-Dichloropropane		5	4.73	ug/L	95	(70-130)	20	0.63
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.610	ug/L	122	(50-150)		
LCS1	2-Butanone (MEK)		50	53.0	ug/L	106	(70-130)		
LCS2	2-Butanone (MEK)		50	51.8	ug/L	104	(70-130)	20	2.3
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.51	ug/L	110	(50-150)		
LCS1	2-Hexanone		50	48.8	ug/L	98	(70-130)		
LCS2	2-Hexanone		50	47.2	ug/L	94	(70-130)	20	3.3
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5	4.59	ug/L	92	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	99.6	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	102	%	102	(70-130)		
MBLK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)		5	99.8	%	100	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	49.5	ug/L	99	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	47.5	ug/L	95	(70-130)	20	4.1
MBLK	4-Methyl-2-Pentanone (MIBK)			<5.0	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.60	ug/L	92	(50-150)		
LCS1	Acetone		50	50.3	ug/L	101	(70-130)		
LCS2	Acetone		50	48.7	ug/L	97	(70-130)	20	3.2
MBLK	Acetone			<10	ug/L				
MRL_CHK	Acetone		5	4.90	ug/L	98	(50-150)		
LCS1	Benzene		5	5.11	ug/L	102	(70-130)		
LCS2	Benzene		5	4.96	ug/L	99	(70-130)	20	3.0
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromobenzene		5	5.15	ug/L	103	(70-130)		
LCS2	Bromobenzene		5	5.04	ug/L	101	(70-130)	20	2.2
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromochloromethane		5	4.91	ug/L	98	(70-130)		
LCS2	Bromochloromethane		5	4.91	ug/L	98	(70-130)	20	0.0
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromodichloromethane		5	4.96	ug/L	99	(70-130)		
LCS2	Bromodichloromethane		5	4.86	ug/L	97	(70-130)	20	2.0
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	Bromoethane		5	4.92	ug/L	98	(70-130)		
LCS2	Bromoethane		5	5.03	ug/L	101	(70-130)	20	2.2
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	Bromoform		5	5.18	ug/L	104	(70-130)		
LCS2	Bromoform		5	4.76	ug/L	95	(70-130)	20	8.4
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.570	ug/L	114	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.10	ug/L	102	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.14	ug/L	103	(70-130)	20	0.78
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.600	ug/L	120	(50-150)		
LCS1	Carbon disulfide		5	4.52	ug/L	90	(70-130)		
LCS2	Carbon disulfide		5	4.52	ug/L	90	(70-130)	20	0.0
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.430	ug/L	86	(50-150)		
LCS1	Carbon Tetrachloride		5	5.27	ug/L	105	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Carbon Tetrachloride		5	5.34	ug/L	107	(70-130)	20	1.3
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.430	ug/L	86	(50-150)		
LCS1	Chlorobenzene		5	5.00	ug/L	100	(70-130)		
LCS2	Chlorobenzene		5	5.01	ug/L	100	(70-130)	20	0.20
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Chlorodibromomethane		5	4.83	ug/L	97	(70-130)		
LCS2	Chlorodibromomethane		5	4.82	ug/L	96	(70-130)	20	0.21
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Chloroethane		5	5.18	ug/L	104	(70-130)		
LCS2	Chloroethane		5	4.86	ug/L	97	(70-130)	20	6.4
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.640	ug/L	128	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	4.85	ug/L	97	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.84	ug/L	97	(70-130)	20	0.21
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	4.84	ug/L	97	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	4.81	ug/L	96	(70-130)	20	0.62
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	5.18	ug/L	104	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	5.04	ug/L	101	(70-130)	20	2.7
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.93	ug/L	99	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.95	ug/L	99	(70-130)	20	0.41
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.400	ug/L	80	(50-150)		
LCS1	Dibromomethane		5	4.98	ug/L	100	(70-130)		
LCS2	Dibromomethane		5	4.84	ug/L	97	(70-130)	20	2.9
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Dichlorodifluoromethane		5	5.02	ug/L	100	(70-130)		
LCS2	Dichlorodifluoromethane		5	4.96	ug/L	99	(70-130)	20	1.2
MBLK	Dichlorodifluoromethane			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Dichlorodifluoromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Dichloromethane		5	5.23	ug/L	105	(70-130)		
LCS2	Dichloromethane		5	5.07	ug/L	101	(70-130)	20	3.1
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Di-isopropyl ether		5	5.02	ug/L	100	(70-130)		
LCS2	Di-isopropyl ether		5	5.00	ug/L	100	(70-130)	20	0.40
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.540	ug/L	108	(50-150)		
LCS1	Ethyl benzene		5	5.06	ug/L	101	(70-130)		
LCS2	Ethyl benzene		5	4.98	ug/L	100	(70-130)	20	1.6
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Hexachlorobutadiene		5	4.96	ug/L	99	(70-130)		
LCS2	Hexachlorobutadiene		5	5.11	ug/L	102	(70-130)	20	3.0
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Isopropylbenzene		5	5.39	ug/L	108	(70-130)		
LCS2	Isopropylbenzene		5	5.16	ug/L	103	(70-130)	20	4.4
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	m,p-Xylenes		10	10.1	ug/L	101	(70-130)		
LCS2	m,p-Xylenes		10	9.95	ug/L	100	(70-130)	20	1.5
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.890	ug/L	89	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.480	ug/L	96	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5	5.24	ug/L	105	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	5.11	ug/L	102	(70-130)	20	2.5
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	5.00	ug/L	100	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.88	ug/L	98	(70-130)	20	2.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Naphthalene		5	4.85	ug/L	97	(70-130)		
LCS2	Naphthalene		5	4.90	ug/L	98	(70-130)	20	1.0
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	n-Butylbenzene		5	4.98	ug/L	100	(70-130)		
LCS2	n-Butylbenzene		5	5.11	ug/L	102	(70-130)	20	2.6
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	n-Propylbenzene		5	5.53	ug/L	111	(70-130)		
LCS2	n-Propylbenzene		5	5.37	ug/L	107	(70-130)	20	2.9
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Chlorotoluene		5	5.40	ug/L	108	(70-130)		
LCS2	o-Chlorotoluene		5	5.19	ug/L	104	(70-130)	20	4.0
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	4.93	ug/L	99	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.94	ug/L	99	(70-130)	20	0.20
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	5.08	ug/L	102	(70-130)		
LCS2	o-Xylene		5	4.88	ug/L	98	(70-130)	20	4.0
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.470	ug/L	94	(50-150)		
LCS1	p-Chlorotoluene		5	5.37	ug/L	107	(70-130)		
LCS2	p-Chlorotoluene		5	5.15	ug/L	103	(70-130)	20	4.2
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.510	ug/L	102	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	5.28	ug/L	106	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	5.12	ug/L	102	(70-130)	20	3.1
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.490	ug/L	98	(50-150)		
LCS1	p-Isopropyltoluene		5	5.37	ug/L	107	(70-130)		
LCS2	p-Isopropyltoluene		5	5.22	ug/L	104	(70-130)	20	2.8
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	sec-Butylbenzene		5	5.39	ug/L	108	(70-130)		
LCS2	sec-Butylbenzene		5	5.29	ug/L	106	(70-130)	20	1.9
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Styrene		5	5.03	ug/L	101	(70-130)		
LCS2	Styrene		5	4.95	ug/L	99	(70-130)	20	1.6

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Report: 973697
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%
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.430	ug/L	86	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.82	ug/L	96	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.79	ug/L	96	(70-130)	20	0.62
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.490	ug/L	98	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	5.18	ug/L	104	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.09	ug/L	102	(70-130)	20	1.8
MBLK	tert-Butyl Ethyl Ether			<3.0	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.510	ug/L	102	(50-150)		
LCS1	tert-Butylbenzene		5	5.33	ug/L	107	(70-130)		
LCS2	tert-Butylbenzene		5	5.23	ug/L	105	(70-130)	20	1.9
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	5.15	ug/L	103	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.93	ug/L	99	(70-130)	20	4.4
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene		5	4.67	ug/L	93	(70-130)		
LCS2	Toluene		5	4.66	ug/L	93	(70-130)	20	0.21
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Toluene-d8 (S)		5	98.8	%	99	(70-130)		
LCS2	Toluene-d8 (S)		5	101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			97.8	%	98	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	97.2	%	97	(70-130)		
MRLLW	Toluene-d8 (S)		5	97.6	%	98	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	5.18	ug/L	104	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	5.08	ug/L	102	(70-130)	20	2.0
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	4.75	ug/L	95	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.80	ug/L	96	(70-130)	20	1.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.640	ug/L	128	(50-150)		
LCS1	Trichloroethylene (TCE)		5	5.18	ug/L	104	(70-130)		
LCS2	Trichloroethylene (TCE)		5	5.05	ug/L	101	(70-130)	20	2.5
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				

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Report: 973697
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	Trichloroethylene (TCE)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Trichlorofluoromethane		5	5.21	ug/L	104	(70-130)		
LCS2	Trichlorofluoromethane		5	5.21	ug/L	104	(70-130)	20	0.0
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.41	ug/L	108	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	5.32	ug/L	106	(70-130)	20	1.7
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.530	ug/L	106	(50-150)		
LCS1	Vinyl chloride (VC)		5	5.00	ug/L	100	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.10	ug/L	102	(70-130)	20	2.0
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.560	ug/L	112	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.320	ug/L	128	(50-150)		
Semivolatiles by GCMS by EPA 525.2									
Prep Batch: 1372484	**Analytical Batch: 1373180**					**Analysis Date: 12/11/2021**			
DUP_202112020302	1,3-Dimethyl-2-nitrobenzene (S)			99.0	%	99	(70-130)		
LCS1	1,3-Dimethyl-2-nitrobenzene (S)		5	98.0	%	98	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)		5	82.0	%	82	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			97.2	%	97	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)		5	99.2	%	99	(70-130)		
MS_202112020301	1,3-Dimethyl-2-nitrobenzene (S)		5	97.4	%	97	(70-130)		
DUP_202112020302	2,4-DDD			ND	ug/L		(0-20)		
LCS1	2,4-DDD		2	2.10	ug/L	105	(70-130)		
LCS2	2,4-DDD		2	2.23	ug/L	111	(70-130)	20	6.0
MBLK	2,4-DDD			<0.1	ug/L				
MRL_CHK	2,4-DDD		0.1	0.117	ug/L	117	(50-150)		
MS_202112020301	2,4-DDD		2	2.08	ug/L	104	(70-130)		
DUP_202112020302	2,4-DDE			ND	ug/L		(0-20)		
LCS1	2,4-DDE		2	2.00	ug/L	100	(70-130)		
LCS2	2,4-DDE		2	2.09	ug/L	104	(70-130)	20	4.4
MBLK	2,4-DDE			<0.1	ug/L				
MRL_CHK	2,4-DDE		0.1	0.107	ug/L	107	(50-150)		
MS_202112020301	2,4-DDE		2	1.94	ug/L	97	(70-130)		
DUP_202112020302	2,4-DDT			ND	ug/L		(0-20)		
LCS1	2,4-DDT		2	2.05	ug/L	103	(70-130)		
LCS2	2,4-DDT		2	2.14	ug/L	107	(70-130)	20	4.3

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	2,4-DDT			<0.1	ug/L				
MRL_CHK	2,4-DDT		0.1	0.113	ug/L	113	(50-150)		
MS_202112020301	2,4-DDT		2	2.04	ug/L	102	(70-130)		
DUP_202112020302	2,4-Dinitrotoluene	ND		ND	ug/L		(0-20)		
LCS1	2,4-Dinitrotoluene		2	2.30	ug/L	115	(70-130)		
LCS2	2,4-Dinitrotoluene		2	2.54	ug/L	127	(70-130)	20	9.9
MBLK	2,4-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.127	ug/L	127	(50-150)		
MS_202112020301	2,4-Dinitrotoluene	ND	2	2.45	ug/L	123	(70-130)		
DUP_202112020302	2,6-Dinitrotoluene			ND	ug/L		(0-20)		
LCS1	2,6-Dinitrotoluene		2	2.42	ug/L	121	(70-130)		
LCS2	2,6-Dinitrotoluene		2	2.48	ug/L	124	(70-130)	20	2.5
MBLK	2,6-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.110	ug/L	110	(50-150)		
MS_202112020301	2,6-Dinitrotoluene		2	2.54	ug/L	127	(70-130)		
DUP_202112020302	4,4-DDD			ND	ug/L		(0-20)		
LCS1	4,4-DDD		2	2.18	ug/L	109	(70-130)		
LCS2	4,4-DDD		2	2.30	ug/L	115	(70-130)	20	5.4
MBLK	4,4-DDD			<0.1	ug/L				
MRL_CHK	4,4-DDD		0.1	0.110	ug/L	110	(50-150)		
MS_202112020301	4,4-DDD		2	2.15	ug/L	108	(70-130)		
DUP_202112020302	4,4-DDE			ND	ug/L		(0-20)		
LCS1	4,4-DDE		2	2.15	ug/L	108	(70-130)		
LCS2	4,4-DDE		2	2.30	ug/L	115	(70-130)	20	6.7
MBLK	4,4-DDE			<0.1	ug/L				
MRL_CHK	4,4-DDE		0.1	0.111	ug/L	111	(50-150)		
MS_202112020301	4,4-DDE		2	2.10	ug/L	105	(70-130)		
DUP_202112020302	4,4-DDT			ND	ug/L		(0-20)		
LCS1	4,4-DDT		2	2.09	ug/L	104	(70-130)		
LCS2	4,4-DDT		2	2.17	ug/L	109	(70-130)	20	3.8
MBLK	4,4-DDT			<0.1	ug/L				
MRL_CHK	4,4-DDT		0.1	0.118	ug/L	118	(50-150)		
MS_202112020301	4,4-DDT		2	2.06	ug/L	103	(70-130)		
DUP_202112020302	Acenaphthene			ND	ug/L		(0-20)		
LCS1	Acenaphthene		2	2.11	ug/L	106	(70-130)		
LCS2	Acenaphthene		2	2.03	ug/L	102	(70-130)	20	3.9
MBLK	Acenaphthene			<0.1	ug/L				
MRL_CHK	Acenaphthene		0.1	0.107	ug/L	107	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202112020301	Acenaphthene		2	2.07	ug/L	104	(70-130)		
DUP_202112020302	Acenaphthene-d10 (I)			96.1	%	96	(50-150)		
LCS1	Acenaphthene-d10 (I)		5	101	%	101	(50-150)		
LCS2	Acenaphthene-d10 (I)		5	74.7	%	75	(50-150)		
MBLK	Acenaphthene-d10 (I)			95.5	%	96	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)		5	94.5	%	95	(50-150)		
MS_202112020301	Acenaphthene-d10 (I)		5	93.8	%	94	(50-150)		
DUP_202112020302	Acenaphthylene	ND		ND	ug/L		(0-20)		
LCS1	Acenaphthylene		2	2.01	ug/L	100	(70-130)		
LCS2	Acenaphthylene		2	2.00	ug/L	100	(70-130)	20	0.50
MBLK	Acenaphthylene			<0.1	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0910	ug/L	91	(50-150)		
MS_202112020301	Acenaphthylene	ND	2	2.08	ug/L	104	(70-130)		
DUP_202112020302	Acetochlor			ND	ug/L		(0-20)		
LCS1	Acetochlor		2	2.26	ug/L	113	(70-130)		
LCS2	Acetochlor		2	2.38	ug/L	119	(70-130)	20	5.2
MBLK	Acetochlor			<0.1	ug/L				
MRL_CHK	Acetochlor		0.05	0.0480	ug/L	96	(50-150)		
MS_202112020301	Acetochlor		2	2.20	ug/L	110	(70-130)		
DUP_202112020302	Alachlor	ND		ND	ug/L		(0-20)		
LCS1	Alachlor		2	2.28	ug/L	114	(70-130)		
LCS2	Alachlor		2	2.41	ug/L	121	(70-130)	20	5.1
MBLK	Alachlor			<0.05	ug/L				
MRL_CHK	Alachlor		0.05	0.0600	ug/L	120	(50-150)		
MS_202112020301	Alachlor	ND	2	2.19	ug/L	109	(70-130)		
DUP_202112020302	Alpha-BHC			ND	ug/L		(0-20)		
LCS1	Alpha-BHC		2	2.08	ug/L	104	(70-130)		
LCS2	Alpha-BHC		2	2.45	ug/L	123	(70-130)	20	16
MBLK	Alpha-BHC			<0.1	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.115	ug/L	115	(50-150)		
MS_202112020301	Alpha-BHC		2	2.13	ug/L	106	(70-130)		
DUP_202112020302	alpha-Chlordane	ND		ND	ug/L		(0-20)		
LCS1	alpha-Chlordane		2	2.08	ug/L	104	(70-130)		
LCS2	alpha-Chlordane		2	2.18	ug/L	109	(70-130)	20	4.7
MBLK	alpha-Chlordane			<0.05	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0530	ug/L	106	(50-150)		
MS_202112020301	alpha-Chlordane	ND	2	1.96	ug/L	98	(70-130)		
DUP_202112020302	Anthracene	ND		ND	ug/L		(0-20)		

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Laboratory QC

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Anthracene		2	2.08	ug/L	104	(70-130)		
LCS2	Anthracene		2	2.13	ug/L	106	(70-130)	20	2.4
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0220	ug/L	110	(50-150)		
MS_202112020301	Anthracene	ND	2	2.12	ug/L	106	(70-130)		
DUP_202112020302	Atrazine	ND		ND	ug/L		(0-20)		
LCS1	Atrazine		2	2.20	ug/L	110	(70-130)		
LCS2	Atrazine		2	2.95	ug/L	**147**	(70-130)	20	**29**
MBLK	Atrazine			<0.05	ug/L				
MRL_CHK	Atrazine		0.05	0.0520	ug/L	104	(50-150)		
MS_202112020301	Atrazine	ND	2	2.08	ug/L	104	(70-130)		
DUP_202112020302	Benz(a)Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Benz(a)Anthracene		2	2.13	ug/L	107	(70-130)		
LCS2	Benz(a)Anthracene		2	2.26	ug/L	113	(70-130)	20	5.9
MBLK	Benz(a)Anthracene			<0.05	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0570	ug/L	114	(50-150)		
MS_202112020301	Benz(a)Anthracene	ND	2	2.14	ug/L	107	(70-130)		
DUP_202112020302	Benzo(a)pyrene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(a)pyrene		2	2.02	ug/L	101	(70-130)		
LCS2	Benzo(a)pyrene		2	1.94	ug/L	97	(70-130)	20	4.0
MBLK	Benzo(a)pyrene			<0.02	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0200	ug/L	100	(50-150)		
MS_202112020301	Benzo(a)pyrene	ND	2	2.02	ug/L	101	(70-130)		
DUP_202112020302	Benzo(b)Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(b)Fluoranthene		2	2.10	ug/L	105	(70-130)		
LCS2	Benzo(b)Fluoranthene		2	2.05	ug/L	103	(70-130)	20	2.4
MBLK	Benzo(b)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0230	ug/L	115	(50-150)		
MS_202112020301	Benzo(b)Fluoranthene	ND	2	2.12	ug/L	106	(70-130)		
DUP_202112020302	Benzo(g,h,i)Perylene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(g,h,i)Perylene		2	1.99	ug/L	100	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2	1.66	ug/L	83	(70-130)	20	18
MBLK	Benzo(g,h,i)Perylene			<0.05	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0470	ug/L	94	(50-150)		
MS_202112020301	Benzo(g,h,i)Perylene	ND	2	1.90	ug/L	95	(70-130)		
DUP_202112020302	Benzo(k)Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(k)Fluoranthene		2	2.16	ug/L	108	(70-130)		
LCS2	Benzo(k)Fluoranthene		2	2.07	ug/L	104	(70-130)	20	4.3

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Report: 973697
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%
MBLK	Benzo(k)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0220	ug/L	110	(50-150)		
MS_202112020301	Benzo(k)Fluoranthene	ND	2	2.17	ug/L	108	(70-130)		
DUP_202112020302	Beta-BHC			ND	ug/L		(0-20)		
LCS1	Beta-BHC		2	2.11	ug/L	105	(70-130)		
LCS2	Beta-BHC		2	2.79	ug/L	**139**	(70-130)	20	**28**
MBLK	Beta-BHC			<0.1	ug/L				
MRL_CHK	Beta-BHC		0.1	0.116	ug/L	116	(50-150)		
MS_202112020301	Beta-BHC		2	2.12	ug/L	106	(70-130)		
DUP_202112020302	Bromacil	ND		ND	ug/L		(0-20)		
LCS1	Bromacil		2	2.50	ug/L	125	(70-130)		
LCS2	Bromacil		2	2.50	ug/L	125	(70-130)	20	0.0
MBLK	Bromacil			<0.2	ug/L				
MRL_CHK	Bromacil		0.1	0.129	ug/L	129	(50-150)		
MS_202112020301	Bromacil	ND	2	2.58	ug/L	129	(70-130)		
DUP_202112020302	Butachlor	ND		ND	ug/L		(0-20)		
LCS1	Butachlor		2	2.44	ug/L	122	(70-130)		
LCS2	Butachlor		2	2.60	ug/L	130	(70-130)	20	6.3
MBLK	Butachlor			<0.05	ug/L				
MRL_CHK	Butachlor		0.05	0.0620	ug/L	124	(50-150)		
MS_202112020301	Butachlor	ND	2	2.38	ug/L	119	(70-130)		
DUP_202112020302	Butylbenzylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Butylbenzylphthalate		2	2.35	ug/L	118	(70-130)		
LCS2	Butylbenzylphthalate		2	2.50	ug/L	125	(70-130)	20	6.2
MBLK	Butylbenzylphthalate			<0.5	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.205	ug/L	137	(50-150)		
MS_202112020301	Butylbenzylphthalate	ND	2	2.40	ug/L	120	(70-130)		
DUP_202112020302	Caffeine by method 525mod	ND		ND	ug/L		(0-20)		
LCS1	Caffeine by method 525mod		2	1.78	ug/L	89	(45-137)		
LCS2	Caffeine by method 525mod		2	1.40	ug/L	70	(45-137)	20	**23**
MBLK	Caffeine by method 525mod			<0.05	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0430	ug/L	86	(50-150)		
MS_202112020301	Caffeine by method 525mod	ND	2	2.02	ug/L	101	(46-144)		
DUP_202112020302	Chlorobenzilate			ND	ug/L		(0-20)		
LCS1	Chlorobenzilate		2	2.21	ug/L	111	(70-130)		
LCS2	Chlorobenzilate		2	2.36	ug/L	118	(70-130)	20	6.6
MBLK	Chlorobenzilate			<0.1	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.102	ug/L	102	(50-150)		

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Report: 973697
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%
MS_202112020301	Chlorobenzilate		2	2.43	ug/L	121	(70-130)		
DUP_202112020302	Chloroneb			ND	ug/L		(0-20)		
LCS1	Chloroneb		2	2.07	ug/L	104	(70-130)		
LCS2	Chloroneb		2	2.28	ug/L	114	(70-130)	20	9.7
MBLK	Chloroneb			<0.1	ug/L				
MRL_CHK	Chloroneb		0.1	0.111	ug/L	111	(50-150)		
MS_202112020301	Chloroneb		2	2.07	ug/L	104	(70-130)		
DUP_202112020302	Chlorothalonil(Draconil,Bravo)			ND	ug/L		(0-20)		
LCS1	Chlorothalonil(Draconil,Bravo)		2	2.30	ug/L	115	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2	2.56	ug/L	128	(70-130)	20	11
MBLK	Chlorothalonil(Draconil,Bravo)			<0.1	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0560	ug/L	112	(50-150)		
MS_202112020301	Chlorothalonil(Draconil,Bravo)		2	2.34	ug/L	117	(70-130)		
DUP_202112020302	Chlorpyrifos (Dursban)			ND	ug/L		(0-20)		
LCS1	Chlorpyrifos (Dursban)		2	2.13	ug/L	106	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2	2.24	ug/L	112	(70-130)	20	5.0
MBLK	Chlorpyrifos (Dursban)			<0.05	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0580	ug/L	116	(50-150)		
MS_202112020301	Chlorpyrifos (Dursban)		2	2.10	ug/L	105	(70-130)		
DUP_202112020302	Chrysene	ND		ND	ug/L		(0-20)		
LCS1	Chrysene		2	2.08	ug/L	104	(70-130)		
LCS2	Chrysene		2	2.07	ug/L	103	(70-130)	20	0.48
MBLK	Chrysene			<0.02	ug/L				
MRL_CHK	Chrysene		0.02	0.0210	ug/L	105	(50-150)		
MS_202112020301	Chrysene	ND	2	2.09	ug/L	105	(70-130)		
DUP_202112020302	Chrysene-d12 (I)			94.9	%	95	(50-150)		
LCS1	Chrysene-d12 (I)		5	102	%	102	(50-150)		
LCS2	Chrysene-d12 (I)		5	98.2	%	98	(50-150)		
MBLK	Chrysene-d12 (I)			98.5	%	99	(50-150)		
MRL_CHK	Chrysene-d12 (I)		5	92.8	%	93	(50-150)		
MS_202112020301	Chrysene-d12 (I)		5	93.1	%	93	(50-150)		
DUP_202112020302	Delta-BHC			ND	ug/L		(0-20)		
LCS1	Delta-BHC		2	2.08	ug/L	104	(70-130)		
LCS2	Delta-BHC		2	2.19	ug/L	109	(70-130)	20	5.2
MBLK	Delta-BHC			<0.1	ug/L				
MRL_CHK	Delta-BHC		0.1	0.117	ug/L	117	(50-150)		
MS_202112020301	Delta-BHC		2	2.04	ug/L	102	(70-130)		
DUP_202112020302	Di-(2-Ethylhexyl)adipate	ND		ND	ug/L		(0-20)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Di-(2-Ethylhexyl)adipate		2	2.37	ug/L	118	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	2.37	ug/L	119	(70-130)	20	0.0
MBLK	Di-(2-Ethylhexyl)adipate			<0.6	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.378	ug/L	126	(50-150)		
MS_202112020301	Di-(2-Ethylhexyl)adipate	ND	2	2.23	ug/L	112	(70-130)		
DUP_202112020302	Di(2-Ethylhexyl)phthalate	ND		ND	ug/L		(0-20)		
LCS1	Di(2-Ethylhexyl)phthalate		2	2.27	ug/L	114	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2	2.09	ug/L	104	(70-130)	20	8.3
MBLK	Di(2-Ethylhexyl)phthalate			<0.6	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.789	ug/L	132	(50-150)		
MS_202112020301	Di(2-Ethylhexyl)phthalate	ND	2	2.15	ug/L	107	(70-130)		
DUP_202112020302	Diazinon (Qualitative)	ND		ND	ug/L		(0-20)		
LCS1	Diazinon (Qualitative)		2	2.00	ug/L	100	(15-132)		
LCS2	Diazinon (Qualitative)		2	2.56	ug/L	128	(15-132)	20	**25**
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.105	ug/L	105	(15-132)		
MS_202112020301	Diazinon (Qualitative)	ND	2	1.96	ug/L	98	(15-132)		
DUP_202112020302	Dibenz(a,h)Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Dibenz(a,h)Anthracene		2	2.00	ug/L	100	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2	1.66	ug/L	83	(70-130)	20	19
MBLK	Dibenz(a,h)Anthracene			<0.05	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0500	ug/L	100	(50-150)		
MS_202112020301	Dibenz(a,h)Anthracene	ND	2	1.98	ug/L	99	(70-130)		
DUP_202112020302	Dichlorvos (DDVP)			ND	ug/L		(0-20)		
LCS1	Dichlorvos (DDVP)		2	2.16	ug/L	108	(70-130)		
LCS2	Dichlorvos (DDVP)		2	1.98	ug/L	99	(70-130)	20	9.2
MBLK	Dichlorvos (DDVP)			<0.05	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0530	ug/L	106	(50-150)		
MS_202112020301	Dichlorvos (DDVP)		2	2.18	ug/L	109	(70-130)		
DUP_202112020302	Dieldrin	ND		ND	ug/L		(0-20)		
LCS1	Dieldrin		2	2.06	ug/L	103	(70-130)		
LCS2	Dieldrin		2	2.12	ug/L	106	(70-130)	20	2.9
MBLK	Dieldrin			<0.2	ug/L				
MRL_CHK	Dieldrin		0.1	0.123	ug/L	123	(50-150)		
MS_202112020301	Dieldrin	ND	2	2.02	ug/L	101	(70-130)		
DUP_202112020302	Diethylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Diethylphthalate		2	2.20	ug/L	110	(70-130)		
LCS2	Diethylphthalate		2	2.63	ug/L	**132**	(70-130)	20	18

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Diethylphthalate			<0.5	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.192	ug/L	128	(50-150)		
MS_202112020301	Diethylphthalate	ND	2	2.23	ug/L	111	(70-130)		
DUP_202112020302	Dimethoate	ND		ND	ug/L		(0-20)		
LCS1	Dimethoate		2	1.61	ug/L	81	(35-100)		
LCS2	Dimethoate		2	1.73	ug/L	86	(35-100)	20	7.2
MBLK	Dimethoate			<0.1	ug/L				
MRL_CHK	Dimethoate		0.1	0.0790	ug/L	79	(35-100)		
MS_202112020301	Dimethoate	ND	2	2.01	ug/L	100	(34-111)		
DUP_202112020302	Dimethylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Dimethylphthalate		2	2.21	ug/L	111	(70-130)		
LCS2	Dimethylphthalate		2	2.42	ug/L	121	(70-130)	20	9.1
MBLK	Dimethylphthalate			<0.5	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.336	ug/L	112	(50-150)		
MS_202112020301	Dimethylphthalate	ND	2	2.22	ug/L	111	(70-130)		
DUP_202112020302	Di-n-Butylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Di-n-Butylphthalate		4	4.44	ug/L	111	(70-130)		
LCS2	Di-n-Butylphthalate		4	4.77	ug/L	119	(70-130)	20	7.2
MBLK	Di-n-Butylphthalate			<1	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.407	ug/L	136	(50-150)		
MS_202112020301	Di-n-Butylphthalate	ND	4	4.57	ug/L	114	(70-130)		
DUP_202112020302	Di-N-octylphthalate			ND	ug/L		(0-20)		
LCS1	Di-N-octylphthalate		2	1.85	ug/L	92	(70-130)		
LCS2	Di-N-octylphthalate		2	1.68	ug/L	84	(70-130)	20	9.6
MBLK	Di-N-octylphthalate			<0.1	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.106	ug/L	106	(50-150)		
MS_202112020301	Di-N-octylphthalate		2	1.73	ug/L	87	(70-130)		
DUP_202112020302	Endosulfan I (Alpha)			ND	ug/L		(0-20)		
LCS1	Endosulfan I (Alpha)		2	2.09	ug/L	105	(70-130)		
LCS2	Endosulfan I (Alpha)		2	2.23	ug/L	111	(70-130)	20	6.5
MBLK	Endosulfan I (Alpha)			<0.1	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0960	ug/L	96	(50-150)		
MS_202112020301	Endosulfan I (Alpha)		2	2.04	ug/L	102	(70-130)		
DUP_202112020302	Endosulfan II (Beta)			ND	ug/L		(0-20)		
LCS1	Endosulfan II (Beta)		2	2.18	ug/L	109	(70-130)		
LCS2	Endosulfan II (Beta)		2	2.20	ug/L	110	(70-130)	20	0.91
MBLK	Endosulfan II (Beta)			<0.1	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.118	ug/L	118	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202112020301	Endosulfan II (Beta)		2	2.08	ug/L	104	(70-130)		
DUP_202112020302	Endosulfan Sulfate			ND	ug/L		(0-20)		
LCS1	Endosulfan Sulfate		2	2.20	ug/L	110	(70-130)		
LCS2	Endosulfan Sulfate		2	2.31	ug/L	116	(70-130)	20	4.9
MBLK	Endosulfan Sulfate			<0.1	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.110	ug/L	110	(50-150)		
MS_202112020301	Endosulfan Sulfate		2	2.19	ug/L	110	(70-130)		
DUP_202112020302	Endrin	ND		ND	ug/L		(0-20)		
LCS1	Endrin		2	2.35	ug/L	118	(70-130)		
LCS2	Endrin		2	2.40	ug/L	120	(70-130)	20	2.1
MBLK	Endrin			<0.1	ug/L				
MRL_CHK	Endrin		0.1	0.130	ug/L	130	(50-150)		
MS_202112020301	Endrin	ND	2	1.95	ug/L	98	(70-130)		
DUP_202112020302	Endrin Aldehyde			ND	ug/L		(0-20)		
LCS1	Endrin Aldehyde		2	1.95	ug/L	98	(70-130)		
LCS2	Endrin Aldehyde		2	2.16	ug/L	108	(70-130)	20	10
MBLK	Endrin Aldehyde			<0.1	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0890	ug/L	89	(50-150)		
MS_202112020301	Endrin Aldehyde		2	1.73	ug/L	86	(70-130)		
DUP_202112020302	EPTC			ND	ug/L		(0-20)		
LCS1	EPTC		2	2.11	ug/L	106	(70-130)		
LCS2	EPTC		2	1.81	ug/L	91	(70-130)	20	15
MBLK	EPTC			<0.1	ug/L				
MRL_CHK	EPTC		0.1	0.101	ug/L	101	(50-150)		
MS_202112020301	EPTC		2	2.12	ug/L	106	(70-130)		
DUP_202112020302	Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Fluoranthene		2	2.22	ug/L	111	(70-130)		
LCS2	Fluoranthene		2	2.33	ug/L	117	(70-130)	20	4.8
MBLK	Fluoranthene			<0.1	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0600	ug/L	120	(50-150)		
MS_202112020301	Fluoranthene	ND	2	2.21	ug/L	111	(70-130)		
DUP_202112020302	Fluorene	ND		ND	ug/L		(0-20)		
LCS1	Fluorene		2	2.20	ug/L	110	(70-130)		
LCS2	Fluorene		2	2.35	ug/L	117	(70-130)	20	6.6
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0570	ug/L	114	(50-150)		
MS_202112020301	Fluorene	ND	2	2.18	ug/L	109	(70-130)		
DUP_202112020302	gamma-Chlordane	ND		ND	ug/L		(0-20)		

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

Report: 973697
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	gamma-Chlordane		2	2.12	ug/L	106	(70-130)		
LCS2	gamma-Chlordane		2	2.20	ug/L	110	(70-130)	20	3.7
MBLK	gamma-Chlordane			<0.05	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0520	ug/L	104	(50-150)		
MS_202112020301	gamma-Chlordane	ND	2	2.02	ug/L	101	(70-130)		
DUP_202112020302	Heptachlor	ND		ND	ug/L		(0-20)		
LCS1	Heptachlor		2	2.08	ug/L	104	(70-130)		
LCS2	Heptachlor		2	2.04	ug/L	102	(70-130)	20	1.9
MBLK	Heptachlor			<0.04	ug/L				
MRL_CHK	Heptachlor		0.04	0.0480	ug/L	120	(50-150)		
MS_202112020301	Heptachlor	ND	2	2.05	ug/L	102	(70-130)		
DUP_202112020302	Heptachlor Epoxide (isomer B)	ND		ND	ug/L		(0-20)		
LCS1	Heptachlor Epoxide (isomer B)		2	2.14	ug/L	107	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2	2.23	ug/L	112	(70-130)	20	3.6
MBLK	Heptachlor Epoxide (isomer B)			<0.05	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0540	ug/L	108	(50-150)		
MS_202112020301	Heptachlor Epoxide (isomer B)	ND	2	2.08	ug/L	104	(70-130)		
DUP_202112020302	Hexachlorobenzene	ND		ND	ug/L		(0-20)		
LCS1	Hexachlorobenzene		2	2.07	ug/L	103	(70-130)		
LCS2	Hexachlorobenzene		2	2.31	ug/L	115	(70-130)	20	11
MBLK	Hexachlorobenzene			<0.05	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0630	ug/L	126	(50-150)		
MS_202112020301	Hexachlorobenzene	ND	2	2.05	ug/L	103	(70-130)		
DUP_202112020302	Hexachlorocyclopentadiene	ND		ND	ug/L		(0-20)		
LCS1	Hexachlorocyclopentadiene		2	1.99	ug/L	100	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	1.61	ug/L	80	(70-130)	20	**21**
MBLK	Hexachlorocyclopentadiene			<0.05	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0470	ug/L	94	(50-150)		
MS_202112020301	Hexachlorocyclopentadiene	ND	2	1.96	ug/L	98	(70-130)		
DUP_202112020302	Indeno(1,2,3,c,d)Pyrene	ND		ND	ug/L		(0-20)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2	2.00	ug/L	100	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2	1.68	ug/L	84	(70-130)	20	17
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.05	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0460	ug/L	92	(50-150)		
MS_202112020301	Indeno(1,2,3,c,d)Pyrene	ND	2	1.96	ug/L	98	(70-130)		
DUP_202112020302	Isophorone	ND		ND	ug/L		(0-20)		
LCS1	Isophorone		2	2.14	ug/L	107	(70-130)		
LCS2	Isophorone		2	1.71	ug/L	86	(70-130)	20	**22**

Spike recovery is already corrected for native results.
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Report: 973697
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Group: Red-Hill Expanded List (Albuquerque+)

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Isophorone			<0.5	ug/L				
MRL_CHK	Isophorone		0.1	0.110	ug/L	110	(50-150)		
MS_202112020301	Isophorone	ND	2	2.14	ug/L	107	(70-130)		
DUP_202112020302	Lindane	ND		ND	ug/L		(0-20)		
LCS1	Lindane		2	2.08	ug/L	104	(70-130)		
LCS2	Lindane		2	2.57	ug/L	128	(70-130)	20	**21**
MBLK	Lindane			<0.04	ug/L				
MRL_CHK	Lindane		0.04	0.0440	ug/L	110	(50-150)		
MS_202112020301	Lindane	ND	2	2.08	ug/L	104	(70-130)		
DUP_202112020302	Malathion			ND	ug/L		(0-20)		
LCS1	Malathion		2	2.34	ug/L	117	(70-130)		
LCS2	Malathion		2	2.48	ug/L	124	(70-130)	20	5.8
MBLK	Malathion			<0.1	ug/L				
MRL_CHK	Malathion		0.1	0.121	ug/L	121	(50-150)		
MS_202112020301	Malathion		2	2.34	ug/L	117	(70-130)		
DUP_202112020302	Methoxychlor	ND		ND	ug/L		(0-20)		
LCS1	Methoxychlor		2	2.36	ug/L	118	(70-130)		
LCS2	Methoxychlor		2	2.35	ug/L	117	(70-130)	20	0.43
MBLK	Methoxychlor			<0.1	ug/L				
MRL_CHK	Methoxychlor		0.1	0.116	ug/L	116	(50-150)		
MS_202112020301	Methoxychlor	ND	2	2.40	ug/L	120	(70-130)		
DUP_202112020302	Metolachlor	ND		ND	ug/L		(0-20)		
LCS1	Metolachlor		2	2.23	ug/L	112	(70-130)		
LCS2	Metolachlor		2	2.36	ug/L	118	(70-130)	20	5.7
MBLK	Metolachlor			<0.05	ug/L				
MRL_CHK	Metolachlor		0.05	0.0620	ug/L	124	(50-150)		
MS_202112020301	Metolachlor	ND	2	2.49	ug/L	124	(70-130)		
DUP_202112020302	Metribuzin	ND		ND	ug/L		(0-20)		
LCS1	Metribuzin		2	2.02	ug/L	101	(70-130)		
LCS2	Metribuzin		2	2.08	ug/L	104	(70-130)	20	2.9
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0520	ug/L	104	(50-150)		
MS_202112020301	Metribuzin	ND	2	1.94	ug/L	97	(70-130)		
DUP_202112020302	Molinate	ND		ND	ug/L		(0-20)		
LCS1	Molinate		2	2.11	ug/L	105	(70-130)		
LCS2	Molinate		2	2.20	ug/L	110	(70-130)	20	4.2
MBLK	Molinate			<0.1	ug/L				
MRL_CHK	Molinate		0.1	0.100	ug/L	100	(50-150)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_202112020301	Molinate	ND	2	2.15	ug/L	108	(70-130)		
DUP_202112020302	Naphthalene			ND	ug/L		(0-20)		
LCS1	Naphthalene		2	2.02	ug/L	101	(70-130)		
LCS2	Naphthalene		2	1.68	ug/L	84	(70-130)	20	19
MBLK	Naphthalene			<0.3	ug/L				
MRL_CHK	Naphthalene		0.1	0.112	ug/L	112	(50-150)		
MS_202112020301	Naphthalene		2	2.00	ug/L	100	(70-130)		
DUP_202112020302	Parathion			ND	ug/L		(0-20)		
LCS1	Parathion		2	2.48	ug/L	124	(70-130)		
LCS2	Parathion		2	2.67	ug/L	**133**	(70-130)	20	7.4
MBLK	Parathion			<0.1	ug/L				
MRL_CHK	Parathion		0.1	0.137	ug/L	137	(50-150)		
MS_202112020301	Parathion		2	2.65	ug/L	**132**	(70-130)		
DUP_202112020302	Pendimethalin			ND	ug/L		(0-20)		
LCS1	Pendimethalin		2	2.14	ug/L	107	(70-130)		
LCS2	Pendimethalin		2	2.29	ug/L	115	(70-130)	20	6.8
MBLK	Pendimethalin			<0.1	ug/L				
MRL_CHK	Pendimethalin		0.1	0.107	ug/L	107	(50-150)		
MS_202112020301	Pendimethalin		2	2.27	ug/L	114	(70-130)		
DUP_202112020302	Permethrin (mixed isomers)			ND	ug/L		(0-20)		
LCS1	Permethrin (mixed isomers)		4	4.19	ug/L	105	(70-130)		
LCS2	Permethrin (mixed isomers)		4	4.05	ug/L	101	(70-130)	20	3.4
MBLK	Permethrin (mixed isomers)			<0.2	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.2	0.255	ug/L	127	(50-150)		
MS_202112020301	Permethrin (mixed isomers)		4	4.12	ug/L	103	(70-130)		
DUP_202112020302	Perylene-d12 (S)			91.4	%	91	(70-130)		
LCS1	Perylene-d12 (S)		5	94.6	%	95	(70-130)		
LCS2	Perylene-d12 (S)		5	90.4	%	90	(70-130)		
MBLK	Perylene-d12 (S)			91.4	%	91	(70-130)		
MRL_CHK	Perylene-d12 (S)		5	81.0	%	81	(70-130)		
MS_202112020301	Perylene-d12 (S)		5	92.2	%	92	(70-130)		
DUP_202112020302	Phenanthrene	ND		ND	ug/L		(0-20)		
LCS1	Phenanthrene		2	2.08	ug/L	104	(70-130)		
LCS2	Phenanthrene		2	2.06	ug/L	103	(70-130)	20	0.97
MBLK	Phenanthrene			<0.04	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0250	ug/L	125	(50-150)		
MS_202112020301	Phenanthrene	ND	2	2.06	ug/L	103	(70-130)		
DUP_202112020302	Phenanthrene-d10 (I)			97.1	%	97	(50-150)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Phenanthrene-d10 (I)		5	101	%	101	(50-150)		
LCS2	Phenanthrene-d10 (I)		5	92.2	%	92	(50-150)		
MBLK	Phenanthrene-d10 (I)			96.7	%	97	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)		5	94.9	%	95	(50-150)		
MS_202112020301	Phenanthrene-d10 (I)		5	94.1	%	94	(50-150)		
DUP_202112020302	Propachlor	ND		ND	ug/L		(0-20)		
LCS1	Propachlor		2	2.15	ug/L	108	(70-130)		
LCS2	Propachlor		2	2.65	ug/L	**133**	(70-130)	20	**21**
MBLK	Propachlor			<0.05	ug/L				
MRL_CHK	Propachlor		0.05	0.0560	ug/L	112	(50-150)		
MS_202112020301	Propachlor	ND	2	2.21	ug/L	111	(70-130)		
DUP_202112020302	Pyrene	ND		ND	ug/L		(0-20)		
LCS1	Pyrene		2	2.22	ug/L	111	(70-130)		
LCS2	Pyrene		2	2.34	ug/L	117	(70-130)	20	5.7
MBLK	Pyrene			<0.05	ug/L				
MRL_CHK	Pyrene		0.05	0.0610	ug/L	122	(50-150)		
MS_202112020301	Pyrene	ND	2	2.22	ug/L	111	(70-130)		
DUP_202112020302	Simazine	ND		ND	ug/L		(0-20)		
LCS1	Simazine		2	2.29	ug/L	115	(70-130)		
LCS2	Simazine		2	2.88	ug/L	**144**	(70-130)	20	**23**
MBLK	Simazine			<0.05	ug/L				
MRL_CHK	Simazine		0.05	0.0600	ug/L	120	(50-150)		
MS_202112020301	Simazine	ND	2	2.16	ug/L	108	(70-130)		
DUP_202112020302	Terbacil			ND	ug/L		(0-20)		
LCS1	Terbacil		2	2.17	ug/L	108	(70-130)		
LCS2	Terbacil		2	2.33	ug/L	117	(70-130)	20	7.1
MBLK	Terbacil			<0.1	ug/L				
MRL_CHK	Terbacil		0.1	0.128	ug/L	128	(50-150)		
MS_202112020301	Terbacil		2	2.14	ug/L	107	(70-130)		
DUP_202112020302	Terbuthylazine			ND	ug/L		(0-20)		
LCS1	Terbuthylazine		2	2.16	ug/L	108	(70-130)		
LCS2	Terbuthylazine		2	2.92	ug/L	**146**	(70-130)	20	**30**
MBLK	Terbuthylazine			<0.1	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.113	ug/L	113	(50-150)		
MS_202112020301	Terbuthylazine		2	2.05	ug/L	102	(70-130)		
DUP_202112020302	Thiobencarb	ND		ND	ug/L		(0-20)		
LCS1	Thiobencarb		2	2.15	ug/L	108	(70-130)		
LCS2	Thiobencarb		2	2.22	ug/L	111	(70-130)	20	3.2

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Thiobencarb			<0.2	ug/L				
MRL_CHK	Thiobencarb		0.1	0.120	ug/L	120	(50-150)		
MS_202112020301	Thiobencarb	ND	2	2.07	ug/L	103	(70-130)		
DUP_202112020302	trans-Nonachlor	ND		ND	ug/L		(0-20)		
LCS1	trans-Nonachlor		2	1.99	ug/L	100	(70-130)		
LCS2	trans-Nonachlor		2	2.11	ug/L	105	(70-130)	20	5.8
MBLK	trans-Nonachlor			<0.05	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0540	ug/L	108	(50-150)		
MS_202112020301	trans-Nonachlor	ND	2	1.94	ug/L	97	(70-130)		
DUP_202112020302	Trifluralin	ND		ND	ug/L		(0-20)		
LCS1	Trifluralin		2	2.17	ug/L	109	(70-130)		
LCS2	Trifluralin		2	2.66	ug/L	**133**	(70-130)	20	20
MBLK	Trifluralin			<0.1	ug/L				
MRL_CHK	Trifluralin		0.1	0.0920	ug/L	92	(50-150)		
MS_202112020301	Trifluralin	ND	2	2.29	ug/L	114	(70-130)		
DUP_202112020302	Triphenylphosphate (S)			104	%	104	(70-130)		
LCS1	Triphenylphosphate (S)		5	105	%	105	(70-130)		
LCS2	Triphenylphosphate (S)		5	110	%	110	(70-130)		
MBLK	Triphenylphosphate (S)			104	%	104	(70-130)		
MRL_CHK	Triphenylphosphate (S)		5	104	%	104	(70-130)		
MS_202112020301	Triphenylphosphate (S)		5	105	%	105	(70-130)		

ICP Metals by EPA 200.7

Analytical Batch: 1373306 **Analysis Date: 12/13/2021**

LCS1	Calcium Total ICAP		50	51.6	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	51.6	mg/L	103	(85-115)	20	0.0
MBLK	Calcium Total ICAP			<0.043087	mg/L				
MRL_CHK	Calcium Total ICAP		1	1.02	mg/L	103	(50-150)		
MS_202112070435	Calcium Total ICAP	100	50	151	mg/L	94	(70-130)		
MS2_202112080667	Calcium Total ICAP	30	50	81.0	mg/L	102	(70-130)		
MSD_202112070435	Calcium Total ICAP	100	50	154	mg/L	100	(70-130)	20	1.7
MSD2_202112080667	Calcium Total ICAP	30	50	81.5	mg/L	103	(70-130)	20	0.57
LCS1	Magnesium Total ICAP		20	20.1	mg/L	101	(85-115)		
LCS2	Magnesium Total ICAP		20	20.1	mg/L	101	(85-115)	20	0.0
MBLK	Magnesium Total ICAP			<0.009606	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0975	mg/L	98	(50-150)		
MS_202112070435	Magnesium Total ICAP	29	20	49.0	mg/L	100	(70-130)		
MS2_202112080667	Magnesium Total ICAP	29	20	48.6	mg/L	99	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202112070435	Magnesium Total ICAP	29	20	49.7	mg/L	104	(70-130)	20	1.5
MSD2_202112080667	Magnesium Total ICAP	29	20	48.8	mg/L	100	(70-130)	20	0.36
LCS1	Potassium Total ICAP		20	20.3	mg/L	101	(85-115)		
LCS2	Potassium Total ICAP		20	20.3	mg/L	102	(85-115)	20	0.0
MBLK	Potassium Total ICAP			<0.233312	mg/L				
MRL_CHK	Potassium Total ICAP		1	0.799	mg/L	80	(50-150)		
MS_202112070435	Potassium Total ICAP	4.2	20	26.5	mg/L	111	(70-130)		
MS2_202112080667	Potassium Total ICAP	4.2	20	26.2	mg/L	110	(70-130)		
MSD_202112070435	Potassium Total ICAP	4.2	20	26.8	mg/L	113	(70-130)	20	0.96
MSD2_202112080667	Potassium Total ICAP	4.2	20	26.4	mg/L	111	(70-130)	20	0.58
LCS1	Sodium Total ICAP		50	50.5	mg/L	101	(85-115)		
LCS2	Sodium Total ICAP		50	50.4	mg/L	101	(85-115)	20	0.20
MBLK	Sodium Total ICAP			<0.4255	mg/L				
MRL_CHK	Sodium Total ICAP		1	1.19	mg/L	119	(50-150)		
MS_202112070435	Sodium Total ICAP	54	50	102	mg/L	96	(70-130)		
MS2_202112080667	Sodium Total ICAP	78	50	123	mg/L	90	(70-130)		
MSD_202112070435	Sodium Total ICAP	54	50	103	mg/L	98	(70-130)	20	1.3
MSD2_202112080667	Sodium Total ICAP	78	50	124	mg/L	91	(70-130)	20	0.59

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.

eurofins | Eaton Analytical

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

Laboratory Hits

Report: 973697
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:
12/08/2021 1354

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	202112080667	**HALAWA WELLS UNITS 1&2 - 331-206-TP065**				
12/12/2021 00:00	Benzoic acid		0.28		ug/L	0.2
12/13/2021 18:57	Calcium Total ICAP		30		mg/L	1.0
12/08/2021 19:10	Chloride		170	250	mg/L	2.5
12/09/2021 19:18	Chromium Total ICAP/MS		2.1	100	ug/L	1.0
12/13/2021 18:57	Magnesium Total ICAP		29		mg/L	0.10
12/08/2021 19:10	Nitrate as Nitrogen by IC		1.8	10	mg/L	0.25
12/13/2021 18:57	Potassium Total ICAP		4.2		mg/L	1.0
12/13/2021 18:57	Sodium Total ICAP		78		mg/L	1.0
12/08/2021 19:10	Sulfate		38	250	mg/L	2.5

SUMMARY OF POSITIVE DATA ONLY

EMAX LABORATORIES, INC.
3051 Fujita Street
Torrance, CA 90505
Tel: (310)-618-8889

Date: 12-15-2021
EMAX Batch No.: 21L085

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 973697

Enclosed is the Laboratory report for samples received on 12/08/21.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202112080667	L085-01	12/07/21	WATER	ETHANOL
				TPH GASOLINE
				TPH
202112080668	L085-02	12/07/21	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Pang
Laboratory Director

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

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

eurofins | Eaton Analytical

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

Torrance, CA 90505

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

Folder #: 973697 **Report Due:** 12/15/2021

Submittal Form

21 L085

Date: 12/8/2021

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder # **973697** 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 StateCertification # and Exp Date for requested tests + matrix.

Samples from: **HAWAII**

2 day rush

Sample ID		Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID	
202112080667	(1)	HALAWA WELLS UNITS 1&2 - 331-206-TP065	12/07/21 1034	DW			JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

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	
202112080668	(2)	TRAVEL BLANK::HALAWA WELLS (331-206-TP065)	12/07/21 1034	DW			JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

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

Relinquished by: Sample Control Date 12-8-21 Time 1510

Received by: _____ Date _____ Time _____

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date 12/8/21 Time 17:15

NOTIFICATION REQUIRED IF RECEIVED OUTS DE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

(1) (3)
Temp. 2.0, 5.6

Type of Delivery	Airbill / Tracking Number	ECN 21L085
☐ Fedex ☐ UPS ☐ GSO ☐ Others		Recipient Juan Alejandro
☐ EMAX Courier ☒ Client Delivery		Date 12/08/21 Time 17:15

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	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 2.0 °C	☐ Cooler 2 _____ °C	☒ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* ~~210191066~~ 210191066 12/9/21	(B) *S/N* 210271396	*C - S/N* 210271349	*D - S/N* _____	

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

Note:

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
1	7-11	D22		R8

12/9/21 MB 12/10/21

☐ 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:

LEGEND:

☐ **Continue to next page.**

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
(D22)	Jet Fuel 8 Analysis not indicated on label
D23	
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling Maria Rivera — Date 12/09/21 12/9/21

SRF — Date 12/9/21

PM MB — Date 12/10/21

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

973697

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

SDG#: 21L085

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 973697

SDG : 21L085

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

A total of two(2) water samples were received on 12/08/21 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. VG39L05B - 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. VG39L05L/VG39L05C 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 L086-01M/L086-01S. Refer to Matrix QC summary form for details.

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

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
Project : 973697

SDG NO. : 21L085
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VG39L05B	1	NA	12/10/2112:15	12/10/2112:15	EL10005A	EL10003A	21VG39L05	Method Blank
LCS1W	VG39L05L	1	NA	12/10/2112:54	12/10/2112:54	EL10006A	EL10003A	21VG39L05	Lab Control Sample (LCS)
LCD1W	VG39L05C	1	NA	12/10/2113:34	12/10/2113:34	EL10007A	EL10003A	21VG39L05	LCS Duplicate
202112080667	L085-01	1	NA	12/10/2119:23	12/10/2119:23	EL10016A	EL10012A	21VG39L05	Field Sample
202112080668	L085-02	1	NA	12/10/2120:03	12/10/2120:03	EL10017A	EL10012A	21VG39L05	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:	12/07/21 10:34
Project	: 973697	Date Received:	12/08/21
Batch No.	: 21L085	Date Extracted:	12/10/21 19:23
Sample ID	: 202112080667	Date Analyzed:	12/10/21 19:23
Lab Samp ID:	L085-01	Dilution Factor:	1
Lab File ID:	EL10016A	Matrix:	WATER
Ext Btch ID:	21VG39L05	% Moisture:	NA
Calib. Ref.:	EL10012A	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	0.0312	0.0400	78	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:	12/07/21 10:34
Project	: 973697	Date Received:	12/08/21
Batch No.	: 21L085	Date Extracted:	12/10/21 20:03
Sample ID	: 202112080668	Date Analyzed:	12/10/21 20:03
Lab Samp ID:	L085-02	Dilution Factor:	1
Lab File ID:	EL10017A	Matrix:	WATER
Ext Btch ID:	21VG39L05	% Moisture:	NA
Calib. Ref.:	EL10012A	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	0.0324	0.0400	81	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:	12/10/21 12:15
Project	: 973697	Date Received:	12/10/21
Batch No.	: 21L085	Date Extracted:	12/10/21 12:15
Sample ID	: MBLK1W	Date Analyzed:	12/10/21 12:15
Lab Samp ID:	VG39L05B	Dilution Factor:	1
Lab File ID:	EL10005A	Matrix:	WATER
Ext Btch ID:	21VG39L05	% Moisture:	NA
Calib. Ref.:	EL10003A	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	0.0323	0.0400	81	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 : 973697
BATCH NO. : 21L085
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VG39L05B	VG39L05L	VG39L05C
LAB FILE ID	: EL10005A	EL10006A	EL10007A
DATE PREPARED	: 12/10/21 12:15	12/10/21 12:54	12/10/21 13:34
DATE ANALYZED	: 12/10/21 12:15	12/10/21 12:54	12/10/21 13:34
PREP BATCH	: 21VG39L05	21VG39L05	21VG39L05
CALIBRATION REF	: EL10003A	EL10003A	EL10003A

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	0.489	98	0.500	0.450	90	8	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0464	116	0.0400	0.0413	103	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 : 973704
BATCH NO. : 21L086
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202112080692	202112080692MS	202112080692MSD
LAB SAMPLE ID	: L086-01	L086-01M	L086-01S
LAB FILE ID	: EL10009A	EL10010A	EL10011A
DATE PREPARED	: 12/10/21 14:51	12/10/21 15:30	12/10/21 16:08
DATE ANALYZED	: 12/10/21 14:51	12/10/21 15:30	12/10/21 16:08
PREP BATCH	: 21VG39L05	21VG39L05	21VG39L05
CALIBRATION REF	: EL10003A	EL10003A	EL10003A

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	0.510	102	0.500	0.501	100	2	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0477	119	0.0400	0.0461	115	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

973697

METHOD SW8015C
ALCOHOLS BY GC

SDG#: 21L085

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 973697

SDG : 21L085

METHOD SW8015C
ALCOHOLS BY GC

One(1) water sample was received on 12/08/21 to be analyzed for Alcohols by GC in accordance with Method SW8015C and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. MEL003WB - 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. MEL003WL/MEL003WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG. Ethanol was within MS/MSD QC limits in L084-01M/L084-01S. Refer to matrix QC summary form for details.

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

LAB CHRONICLE
ALCOHOLS BY GC

Client : EUROFINS EATON ANALYTICAL
Project : 973697

SDG NO. : 21L085
Instrument ID : GCT050

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	MEL003WB	1	NA	12/09/2111:17	NA	TL09004A	TL09002A	MEL003W	Method Blank
LCS1W	MEL003WL	1	NA	12/09/2111:33	NA	TL09005A	TL09002A	MEL003W	Lab Control Sample (LCS)
LCD1W	MEL003WC	1	NA	12/09/2111:46	NA	TL09006A	TL09002A	MEL003W	LCS Duplicate
202112080667	L085-01	1	NA	12/09/2112:43	NA	TL09010A	TL09002A	MEL003W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW8015C
ALCOHOLS BY GC

Client : EUROFINS EATON ANALYTICAL	Date Collected: 12/07/21
Project : 973697	Date Received: 12/08/21
Batch No. : 21L085	Date Extracted: NA
Sample ID: 202112080667	Date Analyzed: 12/09/21 12:43
Lab Samp ID: L085-01	Dilution Factor: 1
Lab File ID: TL09010A	Matrix : WATER
Ext Btch ID: MEL003W	% Moisture : NA
Calib. Ref.: TL09002A	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 : 973697	Date Received: NA
Batch No. : 21L085	Date Extracted: NA
Sample ID: MBLK1W	Date Analyzed: 12/09/21 11:17
Lab Samp ID: MEL003WB	Dilution Factor: 1
Lab File ID: TL09004A	Matrix : WATER
Ext Btch ID: MEL003W	% Moisture : NA
Calib. Ref.: TL09002A	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: 973697
BATCH NO.: 21L085
METHOD: METHOD SW8015C

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	MEL003WB	MEL003WL	MEL003WC		
LAB FILE ID:	TL09004A	TL09005A	TL09006A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/09/2111:17	12/09/2111:33	12/09/2111:46	DATE RECEIVED:	NA
PREP. BATCH:	MEL003W	MEL003W	MEL003W		
CALIB. REF:	TL09002A	TL09002A	TL09002A		

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	9740	97	10000	9820	98	1	60-130	30

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 973687
BATCH NO.: 21L084
METHOD: METHOD SW8015C

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	202112080607				
LAB SAMP ID:	L084-01	L084-01M	L084-01S		
LAB FILE ID:	TL09007A	TL09008A	TL09009A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	12/07/21
DATE ANALYZED:	12/09/2112:00	12/09/2112:14	12/09/2112:29	DATE RECEIVED:	12/08/21
PREP. BATCH:	MEL003W	MEL003W	MEL003W		
CALIB. REF:	TL09002A	TL09002A	TL09002A		

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	9750	98	10000	9810	98	1	60-130	30

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

973697

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 21L085

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 973697

SDG : 21L085

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 12/08/21 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSL008WB - 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 DSL008WL. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 21L084-01M/21L084-01S. Refer to Matrix QC summary form for details.

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

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

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 973697

SDG : 21L085

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 12/08/21 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSL008WB - 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 J5L008WL. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.One(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 21L084-01M/21L084-01S. Refer to Matrix QC summary form for details.

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

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

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 973697

SDG : 21L085

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 12/08/21 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSL008WB - 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 J8L008WL. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG. One(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 21L084-01M/21L084-01S. Refer to Matrix QC summary form for details.

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

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 973697

SDG NO. : 21L085
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSL008WB	1	NA	12/10/2115:53	12/09/2113:15	LL10009A	LL10003A	21DSL008W	Method Blank
LCS1W	DSL008WL	1	NA	12/10/2116:11	12/09/2113:15	LL10010A	LL10003A	21DSL008W	Lab Control Sample (LCS)
202112080667	L085-01	1	NA	12/10/2119:08	12/09/2113:15	LL10020A	LL10003A	21DSL008W	Field Sample
202112080607	L084-01	1	NA	12/10/2117:04	12/09/2113:15	LL10013A	LL10003A	21DSL008W	Field Sample
202112080607MS	L084-01M	1	NA	12/10/2117:22	12/09/2113:15	LL10014A	LL10003A	21DSL008W	Matrix Spike Sample (MS)
202112080607MSD	L084-01S	1	NA	12/10/2117:39	12/09/2113:15	LL10015A	LL10003A	21DSL008W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 973697

SDG NO. : 21L085
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSL008WB	1	NA	12/10/2115:53	12/09/2113:15	LL10009A	LL10004A	21DSL008W	Method Blank
LCS1W	J5L008WL	1	NA	12/10/2116:28	12/09/2113:15	LL10011A	LL10004A	21DSL008W	Lab Control Sample (LCS)
202112080667	L085-01	1	NA	12/10/2119:08	12/09/2113:15	LL10020A	LL10004A	21DSL008W	Field Sample
202112080607	L084-01	1	NA	12/10/2117:04	12/09/2113:15	LL10013A	LL10004A	21DSL008W	Field Sample
202112080607MS	L084-01M	1	NA	12/10/2117:57	12/09/2113:15	LL10016A	LL10004A	21DSL008W	Matrix Spike Sample (MS)
202112080607MSD	L084-01S	1	NA	12/10/2118:15	12/09/2113:15	LL10017A	LL10004A	21DSL008W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 973697
SDG NO. : 21L085
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSL008WB	1	NA	12/10/2115:53	12/09/2113:15	LL10009A	LL10005A	21DSL008W	Method Blank
LCS1W	J8L008WL	1	NA	12/10/2116:46	12/09/2113:15	LL10012A	LL10005A	21DSL008W	Lab Control Sample (LCS)
202112080667	L085-01	1	NA	12/10/2119:08	12/09/2113:15	LL10020A	LL10005A	21DSL008W	Field Sample
202112080607	L084-01	1	NA	12/10/2117:04	12/09/2113:15	LL10013A	LL10005A	21DSL008W	Field Sample
202112080607MS	L084-01M	1	NA	12/10/2118:33	12/09/2113:15	LL10018A	LL10005A	21DSL008W	Matrix Spike Sample (MS)
202112080607MSD	L084-01S	1	NA	12/10/2118:50	12/09/2113:15	LL10019A	LL10005A	21DSL008W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	12/07/21 10:34
Project	: 973697	Date Received:	12/08/21
Batch No.	: 21L085	Date Extracted:	12/09/21 13:15
Sample ID	: 202112080667	Date Analyzed:	12/10/21 19:08
Lab Samp ID:	21L085-01	Dilution Factor:	1
Lab File ID:	LL10020A	Matrix:	WATER
Ext Btch ID:	21DSL008W	% Moisture:	NA
Calib. Ref.:	LL10003A	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	0.469	0.525	89	60-130
Hexacosane	0.115	0.131	88	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 950ml	Final Volume :	5ml
Prepared by	: JNakag/HWang	Analyzed by :	SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	12/07/21 10:34
Project	: 973697	Date Received:	12/08/21
Batch No.	: 21L085	Date Extracted:	12/09/21 13:15
Sample ID	: 202112080667	Date Analyzed:	12/10/21 19:08
Lab Samp ID:	21L085-01	Dilution Factor:	1
Lab File ID:	LL10020A	Matrix:	WATER
Ext Btch ID:	21DSL008W	% Moisture:	NA
Calib. Ref.:	LL10004A	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	0.469	0.525	89	60-130
Hexacosane	0.115	0.131	88	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 : 950ml Final Volume : 5ml
Prepared by : JNakag/HWang Analyzed by : SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	12/07/21 10:34
Project	: 973697	Date Received:	12/08/21
Batch No.	: 21L085	Date Extracted:	12/09/21 13:15
Sample ID	: 202112080667	Date Analyzed:	12/10/21 19:08
Lab Samp ID:	21L085-01	Dilution Factor:	1
Lab File ID:	LL10020A	Matrix:	WATER
Ext Btch ID:	21DSL008W	% Moisture:	NA
Calib. Ref.:	LL10005A	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	0.469	0.525	89	60-130
Hexacosane	0.115	0.131	88	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 : 950ml Final Volume : 5ml
Prepared by : JNakag/HWang Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	12/09/21 13:15
Project	: 973697	Date Received:	12/09/21
Batch No.	: 21L085	Date Extracted:	12/09/21 13:15
Sample ID	: MBLK1W	Date Analyzed:	12/10/21 15:53
Lab Samp ID:	DSL008WB	Dilution Factor:	1
Lab File ID:	LL10009A	Matrix:	WATER
Ext Btch ID:	21DSL008W	% Moisture:	NA
Calib. Ref.:	LL10003A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.025	0.012
Motor Oil	ND	0.050	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.441	0.500	88	60-130
Hexacosane	0.106	0.125	85	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	: JNakag/HWang	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 973697
BATCH NO. : 21L085
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSL008WB	DSL008WL
LAB FILE ID	: LL10009A	LL10010A
DATE PREPARED	: 12/09/21 13:15	12/09/21 13:15
DATE ANALYZED	: 12/10/21 15:53	12/10/21 16:11
PREP BATCH	: 21DSL008W	21DSL008W
CALIBRATION REF	: LL10003A	LL10003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.37	95	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.535	107	60-130
Hexacosane	0.125	0.117	94	60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	12/09/21 13:15
Project	: 973697	Date Received:	12/09/21
Batch No.	: 21L085	Date Extracted:	12/09/21 13:15
Sample ID	: MBLK1W	Date Analyzed:	12/10/21 15:53
Lab Samp ID:	DSL008WB	Dilution Factor:	1
Lab File ID:	LL10009A	Matrix:	WATER
Ext Btch ID:	21DSL008W	% Moisture:	NA
Calib. Ref.:	LL10004A	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	0.441	0.500	88	60-130
Hexacosane	0.106	0.125	85	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 : JNakag/HWang Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 973697
BATCH NO. : 21L085
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSL008WB	J5L008WL
LAB FILE ID	: LL10009A	LL10011A
DATE PREPARED	: 12/09/21 13:15	12/09/21 13:15
DATE ANALYZED	: 12/10/21 15:53	12/10/21 16:28
PREP BATCH	: 21DSL008W	21DSL008W
CALIBRATION REF	: LL10004A	LL10004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.15	86	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.502	100	60-130
Hexacosane	0.125	0.118	94	60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	12/09/21 13:15
Project	: 973697	Date Received:	12/09/21
Batch No.	: 21L085	Date Extracted:	12/09/21 13:15
Sample ID	: MBLK1W	Date Analyzed:	12/10/21 15:53
Lab Samp ID:	DSL008WB	Dilution Factor:	1
Lab File ID:	LL10009A	Matrix:	WATER
Ext Btch ID:	21DSL008W	% Moisture:	NA
Calib. Ref.:	LL10005A	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	0.441	0.500	88	60-130
Hexacosane	0.106	0.125	85	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 : JNakag/HWang Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 973697
BATCH NO. : 21L085
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSL008WB	J8L008WL
LAB FILE ID	: LL10009A	LL10012A
DATE PREPARED	: 12/09/21 13:15	12/09/21 13:15
DATE ANALYZED	: 12/10/21 15:53	12/10/21 16:46
PREP BATCH	: 21DSL008W	21DSL008W
CALIBRATION REF	: LL10005A	LL10005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	1.93	77	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.477	95	60-130
Hexacosane	0.125	0.119	95	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 973687
BATCH NO. : 21L084
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202112080607	202112080607MS	202112080607MSD
LAB SAMPLE ID	: 21L084-01	21L084-01M	21L084-01S
LAB FILE ID	: LL10013A	LL10014A	LL10015A
DATE PREPARED	: 12/09/21 13:15	12/09/21 13:15	12/09/21 13:15
DATE ANALYZED	: 12/10/21 17:04	12/10/21 17:22	12/10/21 17:39
PREP BATCH	: 21DSL008W	21DSL008W	21DSL008W
CALIBRATION REF	: LL10003A	LL10003A	LL10003A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.24	90	2.50	2.03	81	10	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.502	100	0.500	0.480	96	60-130
Hexacosane	0.125	0.114	91	0.125	0.115	92	60-130

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

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 973687
BATCH NO. : 21L084
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202112080607	202112080607MS	202112080607MSD
LAB SAMPLE ID	: 21L084-01	21L084-01M	21L084-01S
LAB FILE ID	: LL10013A	LL10016A	LL10017A
DATE PREPARED	: 12/09/21 13:15	12/09/21 13:15	12/09/21 13:15
DATE ANALYZED	: 12/10/21 17:04	12/10/21 17:57	12/10/21 18:15
PREP BATCH	: 21DSL008W	21DSL008W	21DSL008W
CALIBRATION REF	: LL10004A	LL10004A	LL10004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.58	1.97	77	2.60	2.15	83	9	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.515	0.613	119	0.520	0.519	100	60-130
Hexacosane	0.129	0.114	89	0.130	0.120	92	60-130

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

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 973687
BATCH NO. : 21L084
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202112080607	202112080607MS	202112080607MSD
LAB SAMPLE ID	: 21L084-01	21L084-01M	21L084-01S
LAB FILE ID	: LL10013A	LL10018A	LL10019A
DATE PREPARED	: 12/09/21 13:15	12/09/21 13:15	12/09/21 13:15
DATE ANALYZED	: 12/10/21 17:04	12/10/21 18:33	12/10/21 18:50
PREP BATCH	: 21DSL008W	21DSL008W	21DSL008W
CALIBRATION REF	: LL10005A	LL10005A	LL10005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.60	2.46	95	2.58	2.62	102	6	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.520	0.526	101	0.515	0.523	102	60-130
Hexacosane	0.130	0.119	92	0.129	0.115	89	60-130

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

December 13, 2021

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

Project Name: Folder # 973697 Job # 1000014
Physis Project ID: 1407003-197

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 12/8/2021. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was 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,

Misty Mercier
714 602-5320
Extension 202
mistymercier@physislabs.com

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-197

Folder # 973697 Job # 1000014

Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
93062	202112080667	LAWA WELLS UNITS 1&2- 331-206-TP0	12/7/2021	10:34	Samplewater	Not Specified

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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

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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

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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.

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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 MDL
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

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CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

ND

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

ANALYTICAL REPORT

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 93062-R1	**202112080667 HALAWA WELLS UN**	**Matrix: Samplewater**					**Sampled: 07-Dec-21 10:34**			**Received: 08-Dec-21**	
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	60	1			Total		O-35016	09-Dec-21	12-Dec-21
(d5-Phenol)	EPA 625.1	% Recovery	24	1			Total		O-35016	09-Dec-21	12-Dec-21
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Benzoic Acid	EPA 625.1	µg/L	0.28	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35016	09-Dec-21	12-Dec-21
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 93062-R1	**202112080667 HALAWA WELLS UN**	**Matrix: Samplewater**					**Sampled:**	**07-Dec-21 10:34**		**Received:**	**08-Dec-21**
(d4-1,4-Dichlorobenzene)	EPA 625.1	% Recovery	65	1			Total		O-35016	09-Dec-21	12-Dec-21
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35016	09-Dec-21	12-Dec-21

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 93062-R1	**202112080667 HALAWA WELLS UN**	**Matrix: Samplewater**					**Sampled:**	**07-Dec-21 10:34**		**Received:**	**08-Dec-21**
(d10-Acenaphthene)	EPA 625.1	% Recovery	83	1			Total		O-35016	09-Dec-21	12-Dec-21
(d10-Phenanthrene)	EPA 625.1	% Recovery	93	1			Total		O-35016	09-Dec-21	12-Dec-21
(d12-Chrysene)	EPA 625.1	% Recovery	82	1			Total		O-35016	09-Dec-21	12-Dec-21
(d12-Perylene)	EPA 625.1	% Recovery	95	1			Total		O-35016	09-Dec-21	12-Dec-21
(d8-Naphthalene)	EPA 625.1	% Recovery	74	1			Total		O-35016	09-Dec-21	12-Dec-21
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21

PHYSIS Project ID: 1407003-197
Client: Eurofins Eaton Analytical
Project: Folder # 973697 Job # 1000014

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-35016	09-Dec-21	12-Dec-21
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35016	09-Dec-21	12-Dec-21

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QUALITY CONTROL REPORT

Acid Extractable Compounds — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 11-Dec-21	
(2,4,6-Tribromophenol)	Total	53	1			% Recovery	100	53	44 - 159%	PASS			
(d5-Phenol)	Total	58	1			% Recovery	100	58	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 %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
	Method: EPA 625.1					Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 12-Dec-21	
(2,4,6-Tribromophenol)	Total	56	1			% Recovery	100	0	56	44 - 159%		PASS	
(d5-Phenol)	Total	50	1			% Recovery	100	0	50	20 - 121%		PASS	
2,4,5-Trichlorophenol	Total	0.869	1	0.05	0.1	µg/L	1	0	87	57 - 116%		PASS	
2,4,6-Trichlorophenol	Total	0.938	1	0.05	0.1	µg/L	1	0	94	56 - 118%		PASS	
2,4-Dichlorophenol	Total	0.89	1	0.05	0.1	µg/L	1	0	89	51 - 117%		PASS	
2,4-Dinitrophenol	Total	0.215	1	0.1	0.2	µg/L	1	0	22	0 - 152%		PASS	
2,6-Dichlorophenol	Total	0.45	1	0.05	0.1	µg/L	0.5	0	90	30 - 130%		PASS	
2,6-Di-tert-butyl-4-methylphenol	Total	0.84	1	0.05	0.1	µg/L	1	0	84	50 - 150%		PASS	
2,6-Di-tert-butylphenol	Total	0.906	1	0.05	0.1	µg/L	1	0	91	50 - 150%		PASS	
2-Chlorophenol	Total	0.801	1	0.05	0.1	µg/L	1	0	80	41 - 110%		PASS	
2-Methyl-4,6-dinitrophenol	Total	0.964	1	0.1	0.2	µg/L	1	0	96	0 - 141%		PASS	
2-Methylphenol	Total	0.81	1	0.1	0.2	µg/L	1	0	81	40 - 117%		PASS	
2-Nitrophenol	Total	1.04	1	0.1	0.2	µg/L	1	0	104	40 - 117%		PASS	
3+4-Methylphenol	Total	0.862	1	0.1	0.2	µg/L	1	0	86	0 - 130%		PASS	
4-Chloro-3-methylphenol	Total	1.01	1	0.1	0.2	µg/L	1	0	101	51 - 128%		PASS	
4-Nitrophenol	Total	1	1	0.1	0.2	µg/L	1	0	100	10 - 164%		PASS	
6-tert-butyl-2,4-dimethylphenol	Total	1.07	1	0.05	0.1	µg/L	1	0	107	50 - 150%		PASS	
Benzoic Acid	Total	0.631	1	0.1	0.2	µg/L	1	0	63	2 - 145%		PASS	
Benzyl Alcohol	Total	0.939	1	0.1	0.2	µg/L	1	0	94	43 - 148%		PASS	
Pentachlorophenol	Total	0.417	1	0.05	0.1	µg/L	1	0	42	36 - 111%		PASS	
Phenol	Total	0.685	1	0.1	0.2	µg/L	1	0	69	29 - 114%		PASS	
p-tert-Butylphenol	Total	1.11	1	0.05	0.1	µg/L	1	0	111	50 - 150%		PASS	

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Acid Extractable Compounds — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
		Method: EPA 625.1				Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 12-Dec-21		
(2,4,6-Tribromophenol)	Total	55	1			% Recovery	100	0	55	44 - 159%	PASS	2	30	PASS
(d5-Phenol)	Total	49	1			% Recovery	100	0	49	20 - 121%	PASS	2	30	PASS
2,4,5-Trichlorophenol	Total	0.843	1	0.05	0.1	µg/L	1	0	84	57 - 116%	PASS	4	30	PASS
2,4,6-Trichlorophenol	Total	0.899	1	0.05	0.1	µg/L	1	0	90	56 - 118%	PASS	4	30	PASS
2,4-Dichlorophenol	Total	0.865	1	0.05	0.1	µg/L	1	0	87	51 - 117%	PASS	3	30	PASS
2,4-Dinitrophenol	Total	0.184	1	0.1	0.2	µg/L	1	0	18	0 - 152%	PASS	20	30	PASS
2,6-Dichlorophenol	Total	0.434	1	0.05	0.1	µg/L	0.5	0	87	30 - 130%	PASS	3	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.827	1	0.05	0.1	µg/L	1	0	83	50 - 150%	PASS	1	30	PASS
2,6-Di-tert-butylphenol	Total	0.899	1	0.05	0.1	µg/L	1	0	90	50 - 150%	PASS	1	30	PASS
2-Chlorophenol	Total	0.735	1	0.05	0.1	µg/L	1	0	74	41 - 110%	PASS	8	30	PASS
2-Methyl-4,6-dinitrophenol	Total	0.897	1	0.1	0.2	µg/L	1	0	90	0 - 141%	PASS	6	30	PASS
2-Methylphenol	Total	0.766	1	0.1	0.2	µg/L	1	0	77	40 - 117%	PASS	5	30	PASS
2-Nitrophenol	Total	0.989	1	0.1	0.2	µg/L	1	0	99	40 - 117%	PASS	5	30	PASS
3+4-Methylphenol	Total	0.831	1	0.1	0.2	µg/L	1	0	83	0 - 130%	PASS	4	30	PASS
4-Chloro-3-methylphenol	Total	0.971	1	0.1	0.2	µg/L	1	0	97	51 - 128%	PASS	4	30	PASS
4-Nitrophenol	Total	1.05	1	0.1	0.2	µg/L	1	0	105	10 - 164%	PASS	5	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	1.03	1	0.05	0.1	µg/L	1	0	103	50 - 150%	PASS	4	30	PASS
Benzoic Acid	Total	0.616	1	0.1	0.2	µg/L	1	0	62	2 - 145%	PASS	2	30	PASS
Benzyl Alcohol	Total	0.904	1	0.1	0.2	µg/L	1	0	90	43 - 148%	PASS	4	30	PASS
Pentachlorophenol	Total	0.444	1	0.05	0.1	µg/L	1	0	44	36 - 111%	PASS	5	30	PASS
Phenol	Total	0.658	1	0.1	0.2	µg/L	1	0	66	29 - 114%	PASS	3	30	PASS
p-tert-Butylphenol	Total	1.04	1	0.05	0.1	µg/L	1	0	104	50 - 150%	PASS	7	30	PASS

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 11-Dec-21	
(d4-1,4-Dichlorobenzene)	Total	73	1			% Recovery	100	73	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							
Benzidine	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							
Disalicylidenepropanediamin e	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 %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1				Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 12-Dec-21	
(d4-1,4-Dichlorobenzene)	Total	76	1			% Recovery	100	0	76	30 - 130%	PASS		
2-Chloronaphthalene	Total	0.926	1	0.05	0.1	µg/L	1	0	93	53 - 130%	PASS		
2-Nitroaniline	Total	1.45	1	0.05	0.1	µg/L	2	0	73	69 - 114%	PASS		
3-Nitroaniline	Total	2.68	1	0.05	0.1	µg/L	2	0	134	23 - 137%	PASS		
4-Bromophenylphenyl ether	Total	1.02	1	0.05	0.1	µg/L	1	0	102	61 - 132%	PASS		
4-Chloroaniline	Total	0.942	1	0.05	0.1	µg/L	1	0	94	50 - 150%	PASS		
4-Chlorophenylphenyl ether	Total	1	1	0.05	0.1	µg/L	1	0	100	63 - 130%	PASS		
4-Nitroaniline	Total	1.47	1	0.05	0.1	µg/L	1	0	147	10 - 159%	PASS		
Aniline	Total	0.794	1	0.05	0.1	µg/L	1	0	79	50 - 150%	PASS		
Benzidine	Total	1.41	1	0.05	0.1	µg/L	2	0	70	0 - 125%	PASS		
Bis(2-Chloroethoxy) methane	Total	0.965	1	0.05	0.1	µg/L	1	0	96	66 - 122%	PASS		
Bis(2-Chloroethyl) ether	Total	0.509	1	0.05	0.1	µg/L	1	0	51	43 - 127%	PASS		
Bis(2-Chloroisopropyl) ether	Total	1.2	1	0.05	0.1	µg/L	1	0	120	49 - 128%	PASS		
Dibenzofuran	Total	0.995	1	0.05	0.1	µg/L	1	0	100	50 - 150%	PASS		
Disalicylidenepropanediamin	Total	27.7	1	0.05	0.1	µg/L	50	0	55	50 - 150%	PASS		
Hexachloroethane	Total	0.776	1	0.05	0.1	µg/L	1	0	78	27 - 130%	PASS		
Nitrobenzene	Total	0.843	1	0.05	0.1	µg/L	1	0	84	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	1.03	1	0.05	0.1	µg/L	1	0	103	49 - 142%	PASS		

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**					**Received:**	
		Method: EPA 625.1				Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 12-Dec-21		
(d4-1,4-Dichlorobenzene)	Total	72	1			% Recovery	100	0	72	30 - 130%	PASS	5	30	PASS
2-Chloronaphthalene	Total	0.884	1	0.05	0.1	µg/L	1	0	88	53 - 130%	PASS	6	30	PASS
2-Nitroaniline	Total	1.44	1	0.05	0.1	µg/L	2	0	72	69 - 114%	PASS	0	30	PASS
3-Nitroaniline	Total	2.67	1	0.05	0.1	µg/L	2	0	134	23 - 137%	PASS	0	30	PASS
4-Bromophenylphenyl ether	Total	0.974	1	0.05	0.1	µg/L	1	0	97	61 - 132%	PASS	5	30	PASS
4-Chloroaniline	Total	0.877	1	0.05	0.1	µg/L	1	0	88	50 - 150%	PASS	7	30	PASS
4-Chlorophenylphenyl ether	Total	0.957	1	0.05	0.1	µg/L	1	0	96	63 - 130%	PASS	4	30	PASS
4-Nitroaniline	Total	1.49	1	0.05	0.1	µg/L	1	0	149	10 - 159%	PASS	1	30	PASS
Aniline	Total	0.725	1	0.05	0.1	µg/L	1	0	73	50 - 150%	PASS	9	30	PASS
Benzidine	Total	1.45	1	0.05	0.1	µg/L	2	0	73	0 - 125%	PASS	3	30	PASS
Bis(2-Chloroethoxy) methane	Total	0.922	1	0.05	0.1	µg/L	1	0	92	66 - 122%	PASS	4	30	PASS
Bis(2-Chloroethyl) ether	Total	0.504	1	0.05	0.1	µg/L	1	0	50	43 - 127%	PASS	2	30	PASS
Bis(2-Chloroisopropyl) ether	Total	1.28	1	0.05	0.1	µg/L	1	0	128	49 - 128%	PASS	6	30	PASS
Dibenzofuran	Total	0.95	1	0.05	0.1	µg/L	1	0	95	50 - 150%	PASS	5	30	PASS
Disalicylidenepropanediamin	Total	26.1	1	0.05	0.1	µg/L	50	0	52	50 - 150%	PASS	6	30	PASS
Hexachloroethane	Total	0.739	1	0.05	0.1	µg/L	1	0	74	27 - 130%	PASS	5	30	PASS
Nitrobenzene	Total	0.802	1	0.05	0.1	µg/L	1	0	80	54 - 111%	PASS	5	30	PASS
N-Nitrosodi-n-propylamine	Total	0.893	1	0.05	0.1	µg/L	1	0	89	61 - 152%	PASS	13	30	PASS
N-Nitrosodiphenylamine	Total	0.988	1	0.05	0.1	µg/L	1	0	99	49 - 142%	PASS	4	30	PASS

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 11-Dec-21	
(d10-Acenaphthene)	Total	89	1			% Recovery	100	89	65 - 113%	PASS			
(d10-Phenanthrene)	Total	93	1			% Recovery	100	93	80 - 111%	PASS			
(d12-Chrysene)	Total	90	1			% Recovery	100	90	60 - 139%	PASS			
(d12-Perylene)	Total	93	1			% Recovery	100	93	36 - 161%	PASS			
(d8-Naphthalene)	Total	81	1			% Recovery	100	81	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 %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
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 %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1				Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 12-Dec-21	
(d10-Acenaphthene)	Total	87	1			% Recovery	100	0	87	65 - 113%	PASS		
(d10-Phenanthrene)	Total	96	1			% Recovery	100	0	96	80 - 111%	PASS		
(d12-Chrysene)	Total	104	1			% Recovery	100	0	104	60 - 139%	PASS		
(d12-Perylene)	Total	81	1			% Recovery	100	0	81	36 - 161%	PASS		
(d8-Naphthalene)	Total	76	1			% Recovery	100	0	76	44 - 119%	PASS		
1-Methylnaphthalene	Total	0.439	1	0.001	0.005	µg/L	0.5	0	88	49 - 117%	PASS		
1-Methylphenanthrene	Total	0.514	1	0.001	0.005	µg/L	0.5	0	103	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	0.476	1	0.001	0.005	µg/L	0.5	0	95	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	0.469	1	0.001	0.005	µg/L	0.5	0	94	54 - 117%	PASS		
2-Methylnaphthalene	Total	1.33	1	0.001	0.005	µg/L	1.5	0	89	47 - 130%	PASS		
Acenaphthene	Total	1.33	1	0.001	0.005	µg/L	1.5	0	89	53 - 131%	PASS		
Acenaphthylene	Total	1.49	1	0.001	0.005	µg/L	1.5	0	99	43 - 140%	PASS		
Anthracene	Total	1.54	1	0.001	0.005	µg/L	1.5	0	103	58 - 135%	PASS		
Benz[a]anthracene	Total	1.87	1	0.001	0.005	µg/L	1.5	0	125	55 - 145%	PASS		
Benzo[a]pyrene	Total	1.67	1	0.001	0.005	µg/L	1.5	0	111	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	1.97	1	0.001	0.005	µg/L	1.5	0	131	46 - 165%	PASS		
Benzo[e]pyrene	Total	0.485	1	0.001	0.005	µg/L	0.5	0	97	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	1.68	1	0.001	0.005	µg/L	1.5	0	112	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	1.76	1	0.001	0.005	µg/L	1.5	0	117	56 - 145%	PASS		
Biphenyl	Total	0.459	1	0.001	0.005	µg/L	0.5	0	92	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	2.14	1	0.001	0.005	µg/L	1.5	0	143	55 - 150%	PASS		
Dibenzo[a,l]pyrene	Total	0.548	1	0.001	0.005	µg/L	0.5	0	110	50 - 150%	PASS		

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Dibenzothiophene	Total	0.515	1	0.001	0.005	µg/L	0.5	0	103	75 - 113%	PASS			
Fluoranthene	Total	1.72	1	0.001	0.005	µg/L	1.5	0	115	60 - 146%	PASS			
Fluorene	Total	1.49	1	0.001	0.005	µg/L	1.5	0	99	58 - 131%	PASS			
Indeno[1,2,3-cd]pyrene	Total	2.14	1	0.001	0.005	µg/L	1.5	0	143	50 - 151%	PASS			
Naphthalene	Total	1.19	1	0.001	0.005	µg/L	1.5	0	79	41 - 126%	PASS			
Perylene	Total	0.527	1	0.001	0.005	µg/L	0.5	0	105	48 - 141%	PASS			
Phenanthrene	Total	1.48	1	0.001	0.005	µg/L	1.5	0	99	67 - 127%	PASS			
Pyrene	Total	1.69	1	0.001	0.005	µg/L	1.5	0	113	54 - 156%	PASS			

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 93061-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**					**Received:**	
		Method: EPA 625.1				Batch ID: O-35016		Prepared: 07-Dec-21				Analyzed: 12-Dec-21		
(d10-Acenaphthene)	Total	83	1			% Recovery	100	0	83	65 - 113%	PASS	5	30	PASS
(d10-Phenanthrene)	Total	92	1			% Recovery	100	0	92	80 - 111%	PASS	4	30	PASS
(d12-Chrysene)	Total	93	1			% Recovery	100	0	93	60 - 139%	PASS	11	30	PASS
(d12-Perylene)	Total	77	1			% Recovery	100	0	77	36 - 161%	PASS	5	30	PASS
(d8-Naphthalene)	Total	73	1			% Recovery	100	0	73	44 - 119%	PASS	4	30	PASS
1-Methylnaphthalene	Total	0.419	1	0.001	0.005	µg/L	0.5	0	84	49 - 117%	PASS	5	30	PASS
1-Methylphenanthrene	Total	0.493	1	0.001	0.005	µg/L	0.5	0	99	66 - 127%	PASS	4	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.453	1	0.001	0.005	µg/L	0.5	0	91	57 - 120%	PASS	4	30	PASS
2,6-Dimethylnaphthalene	Total	0.447	1	0.001	0.005	µg/L	0.5	0	89	54 - 117%	PASS	5	30	PASS
2-Methylnaphthalene	Total	1.27	1	0.001	0.005	µg/L	1.5	0	85	47 - 130%	PASS	5	30	PASS
Acenaphthene	Total	1.27	1	0.001	0.005	µg/L	1.5	0	85	53 - 131%	PASS	5	30	PASS
Acenaphthylene	Total	1.42	1	0.001	0.005	µg/L	1.5	0	95	43 - 140%	PASS	4	30	PASS
Anthracene	Total	1.47	1	0.001	0.005	µg/L	1.5	0	98	58 - 135%	PASS	5	30	PASS
Benz[a]anthracene	Total	1.68	1	0.001	0.005	µg/L	1.5	0	112	55 - 145%	PASS	11	30	PASS
Benzo[a]pyrene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	51 - 143%	PASS	5	30	PASS
Benzo[b]fluoranthene	Total	1.81	1	0.001	0.005	µg/L	1.5	0	121	46 - 165%	PASS	8	30	PASS
Benzo[e]pyrene	Total	0.446	1	0.001	0.005	µg/L	0.5	0	89	42 - 152%	PASS	9	30	PASS
Benzo[g,h,i]perylene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	63 - 133%	PASS	6	30	PASS
Benzo[k]fluoranthene	Total	1.67	1	0.001	0.005	µg/L	1.5	0	111	56 - 145%	PASS	5	30	PASS
Biphenyl	Total	0.438	1	0.001	0.005	µg/L	0.5	0	88	56 - 119%	PASS	4	30	PASS
Chrysene	Total	1.3	1	0.001	0.005	µg/L	1.5	0	87	56 - 141%	PASS	11	30	PASS
Dibenz[a,h]anthracene	Total	2.19	1	0.001	0.005	µg/L	1.5	0	146	55 - 150%	PASS	2	30	PASS
Dibenzo[a,l]pyrene	Total	0.626	1	0.001	0.005	µg/L	0.5	0	125	50 - 150%	PASS	13	30	PASS

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODEc
Dibenzothiophene	Total	0.493	1	0.001	0.005	µg/L	0.5	0	99	75 - 113%	PASS	4	30	PASS	
Fluoranthene	Total	1.65	1	0.001	0.005	µg/L	1.5	0	110	60 - 146%	PASS	4	30	PASS	
Fluorene	Total	1.43	1	0.001	0.005	µg/L	1.5	0	95	58 - 131%	PASS	4	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	2.11	1	0.001	0.005	µg/L	1.5	0	141	50 - 151%	PASS	1	30	PASS	
Naphthalene	Total	1.12	1	0.001	0.005	µg/L	1.5	0	75	41 - 126%	PASS	5	30	PASS	
Perylene	Total	0.479	1	0.001	0.005	µg/L	0.5	0	96	48 - 141%	PASS	9	30	PASS	
Phenanthrene	Total	1.42	1	0.001	0.005	µg/L	1.5	0	95	67 - 127%	PASS	4	30	PASS	
Pyrene	Total	1.62	1	0.001	0.005	µg/L	1.5	0	108	54 - 156%	PASS	5	30	PASS	

1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Ion Chromatogram REPORT

Sample ID: 93062

RT	Area Pct	Concentration (ng/L)	Library/ID	Qual	Cas Number
34.1782	6.2139	1111	Anthracene-D10-	1719-06-8	97
10.0044	0.8626	154	Cyclohexane, 1-methyl-2-propyl-	4291-79-6	92

Concentration estimated using the response for Anthracene-d10

Sample ID: Lab Blank B1_35016

RT	Area Pct	Concentration (ng/L)	Library/ID	Qual	Cas Number
34.1774	6.2770	1111	Anthracene-D10-	1719-06-8	97
10.0057	4.0310	714	Cyclohexane, 1-methyl-2-propyl-	4291-79-6	91
11.2028	0.7379	131	Octane, 6-ethyl-2-methyl-	62016-19-7	94
11.2028	0.7155	127	Undecane, 5,7-dimethyl-	17312-83-3	94
15.8717	0.6214	110	3-Hexene, 3-ethyl-2,5-dimethyl-	62338-08-3	84
10.0091	0.6002	106	1H-Tetrazole	288-94-8	98

Concentration estimated using the response for Anthracene-d10

CHAIN OF CUSTODY

eurofins | Eaton Analytical

Submittal Form

Date: 12/8/2021

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder # 973697 Job # 1000014

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Ship To:
`Physis Environmental Laboratories, Inc
1904 East Wright Circle

Anaheim, CA 92806-6028

Phone: 714-602-5320 Fax:

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 StateCertification # and Exp Date for requested tests + matrix.

Samples from: **HAWAII**

rush with TICs

Folder #: 973697
Report Due: 12/15/2021

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202112080667	HALAWA WELLS UNITS 1&2 - 331-206-TP065	12/07/21 1034	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 625	EPA 625	625 Acid Extractable in ug/L
EPA 625	EPA 625	625 Base Neutral Extractable in ug/L
EPA 625	EPA 625m	625PAH in ug/L

Relinquished by: Sample Control Date 12-8-21 Time 1519

Received by: Date 12/8/21 Time 1630

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Relinquished by: Sample Control Date Time

Received by: Date Time

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS

Project Iteration ID: 1407003-197
Client Name: Eurofins Eaton Analytical
Project Name: Folder # 973697 Job # 1000014
COC Page Number: 2 of 2
Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: RGH
2. Date Received: 12/18/21
3. Time Received: 1630
4. Client Name: Eurofins
5. Courier Information: (Please circle)
   - Client
   - UPS
   - Area Fast
   - DRS
   - FedEx
   - GSO/GLS
   - Ontrac
   - 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): 4.2 Used I/R Thermometer # 1-2

Inspection Info

1. Initials Inspected By:_____

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: