eurofins | Eaton Analytical

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

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

Date of Issue
04/06/2022

Linda Geddes
EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

DEB: Debbie L Frank
Project Manager

* 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 #: 987883
Project: INTERA
Sample Group: MW - INTERA Albuquerque+

Project Manager: Debbie L Frank
Phone: (626) 386-1149
PO #: C20525101 exp 05312023

The following samples were received from you on **February 16, 2022** at **1523**. 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
202202160931	BWS2253-J1-AQ	02/15/2022 1030

@ICPMS	@504MOD	@505_EAL
@525PLUS PLUS TICS	@625A_Physis	@625BN_Physis
@625PAH_Physis_TICS	@8015 Ethanol_Subbed	@ML505
@VOASDWA plus plus TICS	@VOA-TBA	(SUB)Gas Fraction Hydrocarbons
Alkalinity in CaCO3 units	Bicarb.Alkalinity as HCO3,calc	Bromide by 300.0
Calcium Total ICAP	Carbonate as CO3, Calculated	Chloride
Fluoride	Magnesium Total ICAP	Mercury by 245.1 Subbed
Mercury ICPMS	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC
PH (H3=past HT not compliant)	Potassium Total ICAP	Sodium Total ICAP
Specific Conductance	Sulfate	Miscellaneous Charges
Total Dissolved Solid (TDS)	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5
TPH 8015 Jef Fuel 8		

202202160932	TRAVEL BLANK Raw	02/15/2022 1030

@504MOD TB	@VOASDWA plus plus TICS TB	@VOA-TBA TB
(SUB)Gas Fraction Hydrocarbons		

202203240047	BWS2253-J1-AQ	03/22/2022 0900

@ML505

Test Description

@ICPMS -- ICPMS Metals

@504MOD -- EPA Method 504.1

@504MOD TB -- EPA Method 504.1

@505_EAL -- Organochlorine Pesticides

@525PLUS PLUS TICS -- Semivolatiles by GCMS

@625A_Physis -- 625 Acid Extractable in ug/L

@625BN_Physis -- 625 Base Neutral Extractable in ug/L

@625PAH_Physis_TICS -- 625PAH in ug/L

@8015 Ethanol_Subbed -- Ethanol

@ML505 -- Organochlorine Pesticides/PCBs

@VOASDWA plus plus TICS -- Volatile Organics by GCMS

@VOASDWA plus plus TICS TB -- Volatile Organics by GCMS

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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 #: 987883
Project: INTERA
Sample Group: MW - INTERA Albuquerque+

Project Manager: Debbie L Frank
Phone: (626) 386-1149
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The following samples were received from you on **February 16, 2022** at **1523**. 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
	@VOA-TBA -- TBA by EPA 524.2 Modified	
	@VOA-TBA TB -- TBA by EPA 524.2 Modified	

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

CHAIN OF CUSTODY RECORD

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

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

987853

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: _____

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 2.6 °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:
Honolulu Board of Water Supply	RED HILL

EEA CLIENT CODE:	COC ID:	SAMPLE GROUP:
HONOLULU		MW - INTERA Albuquerque +

COMPLIANCE SAMPLES ☐ (check for yes) NON-COMPLIANCE SAMPLES ☒ (check for yes)

- Requires state forms ☐ REGULATION INVOLVED: _____

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

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☒ (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 X 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Cl, N as Nitrogen by IC, Nitrite N by IC, Sulfate	@525PLUS PLUS TICS	@625A_Physis	@625BN_Physis	@625PAH_Physis_TICS, TPH 8015 Diesel and Motor Oil, TPH 8015 Jet Fuel 8	TPH 8015 Jet Fuel 5	flouride	Alk in CaCO3 units, PH, Specific Conductance	@505_EAL, @ML505	@VOA-TBA	@VOA-TBA TB	8015 Gas Travel Blank	@VOASDWA plus plus TICS	@VOASDWA plus plus TICS TB	@504MOD	SAMPLER COMMENTS
2/15/22	1037		BWS2253-J1-AQ	RGW			1	5	4	4	5	1	1	1	4	4			3		3	kit# 307445
			BWS2253-J1-TB	BW													2	2		3		Provided by EEA
			[Bottle Size																			

MPS# 0263 2898 7467 2775
Mstr# 2898 7467 2753

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	2/15/22	1037
RELINQUISHED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	2/15/22	1315
RECEIVED BY:		Victor Mascenik	EEA	2.16.22	1523
RELINQUISHED BY:					
RECEIVED BY:					

PAGE 1 OF 2

CHAIN OF CUSTODY RECORD

587883

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

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: H

SAMPLES LOGGED IN BY: L

SAMPLE TEMP RECEIVED AT:

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

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

☑ Monrovia 2.6 °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:
Honolulu Board of Water Supply	RED HILL

EEA CLIENT CODE:	COC ID:	SAMPLE GROUP:
HONOLULU		MW - INTERA Albuquerque +

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

(check for yes) (check for yes)

COMPLIANCE SAMPLES ☐ NON-COMPLIANCE SAMPLES ☒

- Requires state forms ☐ REGULATION INVOLVED: _____

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

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☒ (check for yes), *OR*

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX*	FIELD DATA	FIELD DATA	@8015 Ethanol_Subbed	8015 Gas	@504MOD TB	@ICPMS, Ca Total ICAP, Mg Total ICAP, Hg ICPMS,K Total ICAP, Na Total ICAP	Total Dissolved Solid (TDS)	Bromide by 300.0								SAMPLER COMMENTS
2/15/22	1030		BWS2253-J1-AQ	RGW			4	4		1	1	1								kit# 307445
			BWS2253-J1-TB	BW					2											Provided by EEA

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologist	2/15/22	1032
RELINQUISHED BY:		Kevin Gooding	INTERA Incorporated /Senior Hydrogeologist	2/15/22	1315
RECEIVED BY:			EEA	2/16/22	1523
RELINQUISHED BY:					
RECEIVED BY:					

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 487883

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 = 630 (Observation= 3.0 °C) (Corr.Factor -0.2 °C) (Final = 2.8 °C)

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

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

Compliance Acceptance Criteria:

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

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

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

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the 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
0432	11	1		504.1
0432	12	1		504.1
0432	7	1		VOA TB

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:		Victor Moscoso	Eurofins Eaton Analytical	2-16-22	1523
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

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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 = 401 (Observation= 1.5 °C) (Corr.Factor -0.2 °C) (Final = 1.3 °C)

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

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

289874672753

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]	Chuck Brooks	Eurofins Eaton Analytical	2.16.22	1221
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

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

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

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

Created Date & Time: 12/8/2021 6:39:15PM

Note: Sampler Please return this paper with your samples

Kit #: 307445

Client ID: HONOLULU

Created By: Debbie L Frank - [DEB]
Deliver By: 12/15/2021
STG: Bottle Orders
Ice Type: W

Project Code: INTERA Bottle Orders
Group Name: MW - INTERA Albuquerque+
PO#/JOB#: C20525101 exp 05312023
Description: BWS2253-J1-AQ - QTLY upon req

3/

Ship Sample Kits to
INTERA Incorporated
41-038 A Manana Street
Waimanalo, HI 96795

Attn: Kevin Gooding- Ship INTERA
Phone: 808.382.6853

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	@525PLUS PLUS TICS	5 - 1L amber glass [2ml of 6N HCl]	5	UN1789
1	@625A_Physis, @625PAH_Physis_TICS	4 - 1L amber glass [no preservative]	4	
1	@625BN_Physis	4 - 1L amber glass [no preservative]	4	
1	TPH 8015 Diesel and Motor Oil, TPH 8015 Jet Fuel 8	5 - 1L amber glass [no preservative]	5	
1	TPH 8015 Jet Fuel 5	4 - 1L amber glass [no preservative]	4	
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	@505_EAL, @ML505	4 - 40ml amber glass vial [1 drop Thio (8%)]	4	
1	8015 Gas	4 - 40ml amber glass vial [1:1 HCL]	4	
1	@VOA-TBA	4 - 40ml amber glass vial [4 drops 1:1 HCL]	4	UN1789
1	@VOA-TBA TB	2 - 40ml amber glass vial [4 drops of 1:1 HCL + H2O]	2	UN1789
1	8015 Gas Travel Blank	2 - 40ml amber glass vial [4 drops of 1:1 HCL + H2O]	2	UN1789
1	@VOASDWA plus plus TICS	3 - 40ml amber glass vial [4drops 6N HCL (36%)]	3	UN1789
1	@VOASDWA plus plus TICS TB	3 - 40ml amber glass vial [4drops of 1:1 HCL + H2O]	3	UN1789
1	@504MOD	3 - 40ml amber glass vial [no preservative]	3	
1	@8015 Ethanol_Subbed	4 - 40ml amber glass vial [no preservative]	4	
1	@504MOD TB	2 - 40ml amber glass vial [no preservative + H20]	2	
1	Mercury ICPMS, @ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Potassium Total ICAP, Sodium Total ICAP	1 - 500ml acid poly [2ml HNO3 (18%)]	1	UN2031
1	Total Dissolved Solid (TDS)	1 - 500ml poly [no preservative]	1	
1	Bromide by 300.0	1 - 60mL poly [0.3 mL 1% EDA solution]	1	

Sum Tests: 21 **Sum Bottles:** 59

Comments

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

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

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

Created Date & Time: 12/8/2021 6:39:15PM

Note: Sampler Please return this paper with your samples

Kit #: 307445

Created By: Debbie L Frank - [DEB]
Deliver By: 12/15/2021
STG: Bottle Orders
Ice Type: W

Client ID: HONOLULU
Project Code: INTERA Bottle Orders
Group Name: MW - INTERA Albuquerque+
PO#/JOB#: C20525101 exp 05312023
Description: BWS2253-J1-AQ - QTLY upon req

Ship Sample Kits to
INTERA Incorporated
41-038 A Manana Street
Waimanalo, HI 96795

Attn: Kevin Gooding- Ship INTERA
Phone: 808.382.6853

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 #

Quarterly BWS2253-J1-AQ.

SHIPPING:
Travel Blanks - 8015 gas, TBA, VOASDWA(inclMTBE) - Prepare TBs in the VOA LAB.
Label Cooler on TOP and right below both Handles with Site description of contents (use extra Container Labels)

Include extra dropper of HCL for each set of voa's last round ph>2
Include 12 Custody Seals in document package
Don't send Blue ICe with this KO. Be sure to reserve room for the WET ICE upon return.
include WET ICE KITS/Instructions for INTERA

SAMPLER:
SPECIAL instructions -Fill all contianers - extra volume needed, in case randomly selected by the lab for batch QC.

SO cancelled per Kevin Gooding CC'd Joe Tracy. Order per event ~2weeks in advance.

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

Code Status Date Shipped 12/13/2021 Via FEDEX Tracking # 549140308993 # of Coolers 2 Prepared By RR

CHAIN OF CUSTODY RECORD

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)

EUROFINS EATON ANALYTICAL USE ONLY: 987883

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 4.9°C ID#3 SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

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

☑ Monrovia 5.7 °C (Compliance: 4 ± 2 °C) Fedex# 6566

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) ☒
Honolulu Board of Water Supply	RED HILL	- Requires state forms ☐ / REGULATION INVOLVED: _____
EEA CLIENT CODE: HONOLULU / COC ID:	SAMPLE GROUP: MW - INTERA Albuquerque +	Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☒ (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: **RUSH** STD __ 1 wk ___ **3 day** __X_ 2 day ___ 1 day ___

Ship to: Asset Laboratories
3151 West Post Road
Las Vegas NV 89118
702-307-2659
Attn: Marlon Cartin
marlon@assetlaboratories.com

Bill and Report to EEA-Monvovia

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	~~TPH 8015 Diesel and Motor Oil~~	1 @ MLSDS	~~8015 Gas Travel Blank~~	~~8015GS~~	SAMPLER COMMENTS
3/22	0950		BWS2253-J1-AQ	RGW				1			kit# 319662
			BWS2253-J1-TB	BW							Provided by EEA
			[Bottle Size								

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	3/22/22	0900
RELINQUISHED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	3/22/22	1610
RECEIVED BY:		Giselle Garcia	ASSET LABS	3/23/22	0955
RELINQUISHED BY:		Giselle Garcia	ASSET LABS	3/23/22	1600
RECEIVED BY:		G. REITNER	EEA	3-24-22	11:41

PAGE 1 OF 1

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

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

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

Created Date & Time: 3/7/2022 2:12:49PM

Note: Sampler Please return this paper with your samples

Kit #: 314662

Created By: Davis Haley - [B6AN]
Deliver By: 03/11/2022
STG: Bottle Orders
Ice Type: W

Client ID: HONOLULU
Project Code: INTERA Bottle Orders
Group Name: MW - INTERA Albuquerque+
PO#/JOB#: C20525101 exp 05312023
Description: BWS2253-J1-AQ Resample

Ship Sample Kits to
INTERA Incorporated
41-038 A Manana Street
Waimanalo, HI 96795

Attn: Kevin Gooding- Ship INTERA
Phone: 808.382.6853

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	@ML505	4 - 40ml amber glass vial [1 drop Thio (8%)]	4	

Sum Tests: 1 **Sum Bottles:** 4

Comments

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

eurofins | Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 987833

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 = 649A (Observation= 6.0 °C) (Corr.Factor -0.3 °C) (Final = 5.7 °C)

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

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

7912 3413 6939

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]	G.REITNER	Eurofins Eaton Analytical	03.24.2022	11:41
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

Page ___ of ___

QA FO-FRM5504 (9.28.21) Ver 9

1. Select the 'Print' button to print 1 copy of each label.
2. The Return Shipment instructions, which provide your recipient with information on the returns process, will be printed with the label (s).
3. After printing, select your next step by clicking one of the displayed buttons.

Note: To review or print individual labels, select the Label button under each label image above.

ORIGIN ID:HNLA (808) 382-6853
KEVIN GOODING
INTERA INC
74 KIHAPAI ST.

KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 22MAR22
ACTWGT: 10.30 LB
CAD: 6994244/SSFE2300
DIMS: 11x8x10 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 08/22
569J5/EB02/FE4A

TO **ATTN MARLON CARTIN**
ASSET LABORATORIES
3151 WEST POST RD.

LAS VEGAS NV 89118

(702) 307-2659 REF:
INV:
PO: DEPT:

FedEx Express

E

J221022010501uv

WED - 23 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **2711 6288 6566**

WR LASA

89118
NV-US LAS

RT 449
FZ

1
10:30

C
6566
03.23

Subject: RE: Samples for 505
From: "Frank, Debbie" <Debbie.Frank@eurofinset.com>
Date: 3/23/2022, 1:43 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>, "Sanchez, Joseph" <Joseph.Sanchez@eurofinset.com>
CC: "marlon@assetlaboratories.com" <marlon@assetlaboratories.com>, "giselle@assetlaboratories.com" <giselle@assetlaboratories.com>, "Haley, Davis" <Davis.Haley@eurofinset.com>

Thanks Yoandra

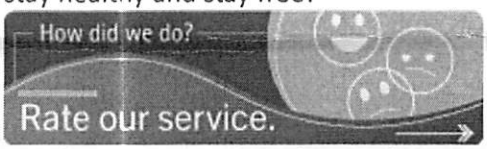
Please mark the exterior Short HT.

This 505 (heptachlor) is a resample - Please include this email.

Joe - add to the below folder:

987883	202202160931	HONOLULU	INTERA	2/15/2022	2/16/2022	BWS2253-J1

Sincerely,
Debbie Frank
Senior Project Manager
stay healthy and stay free!



Eurofins Eaton Analytical, LLC. (EEA-Monrovia, CA, USA)
750 Royal Oaks Drive, Suite 100
Monrovia, CA, USA 91016
Phone: +1 626 386 1149
Mobile: +1 310 918 4308
internal *20 1149
Website: http://www.eurofinsus.com/Eaton
Email: Debbie.Frank@eurofinset.com

BUSINESS DAYS
The receiving department is open M-F 8:00 to 4:00 and Saturday mornings for FedEx and UPS deliveries.
EEA does not have analysis available on the Weekends. Please contact your ASM, to coordinate RUSH Weekend Testing, if needed.

Please note that our standard Terms and Conditions apply to the prices quoted.

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Wednesday, March 23, 2022 1:10 PM

To: Frank, Debbie <Debbie.Frank@eurofinset.com>
Cc: marlon@assetlaboratories.com; giselle@assetlaboratories.com
Subject: Samples for 505

EXTERNAL EMAIL*

Hi Debbie,

We also received the sample on the attached COC for 505.

We'll ship them overnight to Eurofins as we did last time.

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

ASSET LABORATORIES - Serving Clients with Passion and Professionalism

eurofins | Eaton Analytical

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

Laboratory Comments

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Folder Comments

202202160931 524.2 TICs None Detected
202202160932 524.2 TICs None Detected
Results for Mercury are submitted by Eurofins Eaton Analytical in Sourthbend IN CA 2920
6-30-22
Results for Ethanol, TPH Gas, Diesel, Motor Oil and Jet Fuels are submitted by Emax Laboratories
Results for 625 PAHs, ACIDs and BNA are submitted by Physis Environmental
202202160931 525.2 TICs
unknown acid Retention Time=2.92min, Estimated concentration=0.8 ug/L.
unknown Retention Time=4.19min, Estimated concentration=0.6 ug/L.

Flags Legend:

BM - Target analyte detected in method blank above the MDL, but below the minimum reporting limit (MRL) and anayte not present in the sample, no impact on data.
H1 - Sample analysis performed past holding time - see 525.2 results for Heptachlor.
LE - MRL Check recovery was above laboratory acceptance limits.
LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.
LM - MRL Check recovery was above laboratory acceptance limits. This target analyte was not detected in the sample.
R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
VC - CCV is high biased, ND data are reportable as per TNI V1M4 1.7.2.e).i.

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

eurofins | Eaton Analytical

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

Laboratory Hits

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
02/16/2022 1523

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
	202202160931	**BWS2253-J1-AQ**				
03/17/2022 00:00	Acenaphthene		0.00501		ug/L	0.005
02/25/2022 22:37	Alkalinity in CaCO3 units		62		mg/L	2.0
03/01/2022 16:44	Bicarb.Alkalinity as HCO3calc		75		mg/L	2.0
02/18/2022 19:44	Bromide		200		ug/L	5.0
02/18/2022 10:40	Calcium Total ICAP		11		mg/L	1.0
02/16/2022 21:53	Chloride		55	250	mg/L	1.0
02/21/2022 14:37	Chromium Total ICAP/MS		5.2	100	ug/L	1.0
02/26/2022 06:53	Dieldrin		0.0023	0.2	ug/L	0.0020
03/03/2022 21:39	Fluoride		0.073	4	mg/L	0.050
02/18/2022 10:40	Magnesium Total ICAP		11		mg/L	0.10
02/21/2022 14:37	Nickel Total ICAP/MS		26		ug/L	5.0
02/16/2022 21:53	Nitrate as Nitrogen by IC		0.56	10	mg/L	0.10
02/25/2022 22:37	PH (H3=past HT not compliant)		7.9	8.5	Units	0.10
02/18/2022 10:40	Potassium Total ICAP		1.9		mg/L	1.0
02/18/2022 10:40	Sodium Total ICAP		36		mg/L	1.0
02/25/2022 22:37	Specific Conductance, 25 C		330	--	umho/cm	2.0
02/16/2022 21:53	Sulfate		10	250	mg/L	1.0
02/22/2022 19:19	Total Dissolved Solids (TDS)		210	500	mg/L	10

SUMMARY OF POSITIVE DATA ONLY

eurofins | Eaton Analytical

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

Laboratory Data

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
02/16/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
BWS2253-J1-AQ (202202160931)							**Sampled on 02/15/2022 1030**		
		EPA 200.8 - ICPMS Metals							
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.50	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Chromium Total ICAP/MS	5.2	ug/L	1.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.50	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Nickel Total ICAP/MS	26	ug/L	5.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.50	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1.0	1
02/17/22	02/21/22 14:37	1387525	1387723	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
		EPA 200.7 - ICP Metals							
02/17/22	02/18/22 10:40	1387525	1387868	(EPA 200.7)	Calcium Total ICAP	11	mg/L	1.0	1
02/17/22	02/18/22 10:40	1387525	1387868	(EPA 200.7)	Magnesium Total ICAP	11	mg/L	0.10	1
02/17/22	02/18/22 10:40	1387525	1387868	(EPA 200.7)	Potassium Total ICAP	1.9	mg/L	1.0	1
02/17/22	02/18/22 10:40	1387525	1387868	(EPA 200.7)	Sodium Total ICAP	36	mg/L	1.0	1
		EPA 200.8 - Mercury ICPMS							
02/17/22	02/21/22 14:37	1387525	1387726	(EPA 200.8)	Mercury ICPMS	ND	ug/L	0.20	1
		SM2330B - Carbonate as CO3, Calculated							
	03/01/22 22:39			(SM2330B)	Carbonate as CO3, Calculated	ND (c)	mg/L	2.0	1
		SM2330B - Bicarb.Alkalinity as HCO3,calc							
	03/01/22 16:44			(SM2330B)	Bicarb.Alkalinity as HCO3calc	75 (c)	mg/L	2.0	1
		EPA 505 - Organochlorine Pesticides/PCBs							
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Aldrin	ND	ug/L	0.010	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Chlordane	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Dieldrin	ND	ug/L	0.0100	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Endrin	ND	ug/L	0.010	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Heptachlor	ND (H1)	ug/L	0.010	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.010	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.010	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Methoxychlor	ND	ug/L	0.050	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.080	1

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

Laboratory Data

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
02/16/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Total PCBs	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Toxaphene	ND	ug/L	0.50	1
02/25/22	02/26/22 06:53	1389568	1389922	(EPA 505)	Tetrachlorometaxylene	96	%		1
EPA 505 - Organochlorine Pesticides									
02/25/22	02/26/22 06:53	1389832	1396621	(EPA 505)	Aldrin	ND	ug/L	0.0020	1
02/25/22	02/26/22 06:53	1389832	1396621	(EPA 505)	Dieldrin	0.0023	ug/L	0.0020	1
02/25/22	02/26/22 06:53	1389832	1396621	(EPA 505)	Toxaphene	ND	ug/L	0.10	1
02/25/22	02/26/22 06:53	1389832	1396621	(EPA 505)	Tetrachloro-m-xylene	96	%		1
EPA 504.1 - EPA Method 504.1									
02/24/22	02/24/22 20:52	1389140	1389527	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.040	1
02/24/22	02/24/22 20:52	1389140	1389527	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.010	1
02/24/22	02/24/22 20:52	1389140	1389527	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.010	1
02/24/22	02/24/22 20:52	1389140	1389527	(EPA 504.1)	1,2-Dibromopropane	100	%		1
EPA 525.2 - Semivolatiles by GCMS									
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	1-Methylnaphthalene	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	2,4-DDD	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	2,4-DDE	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	2,4-DDT	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	2,4-Dinitrotoluene	ND (LE)	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	2-methylnaphthalene	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	4,4-DDD	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	4,4-DDE	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	4,4-DDT	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Acenaphthene	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Acetochlor	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Alachlor	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Anthracene	ND	ug/L	0.020	1

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02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Atrazine	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.020	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.020	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.020	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Beta-BHC	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Bromacil	ND (LK)	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Butachlor	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.50	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Chloroneb	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Chrysene	ND	ug/L	0.020	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Delta-BHC	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.60	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.60	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Dibenz(a,h)Anthracene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Dieldrin	ND	ug/L	0.20	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.50	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Dimethoate	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.50	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1.0	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Endrin	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	EPTC	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Fluoranthene	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Fluorene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.050	1

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02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Heptachlor	ND	ug/L	0.040	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Isophorone	ND	ug/L	0.50	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Lindane	ND	ug/L	0.040	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Malathion	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Methoxychlor	ND (LK)	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Metolachlor	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Metribuzin	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Molinate	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Naphthalene	ND	ug/L	0.30	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Parathion	ND (LK)	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Pendimethalin	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.20	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Phenanthrene	ND	ug/L	0.040	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Propachlor	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Pyrene	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Simazine	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Terbacil	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.20	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.050	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Trifluralin	ND	ug/L	0.10	1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	113	%		1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Acenaphthene-d10	50	%		1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Chrysene-d12	58	%		1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Perylene-d12	95	%		1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Phenanthrene-d10	57	%		1
02/18/22	02/28/22 12:39	1387862	1390989	(EPA 525.2)	Triphenylphosphate	91	%		1
	EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	02/16/22 21:53		1387483	(EPA 300.0)	Nitrate as Nitrogen by IC	0.56	mg/L	0.10	2
	02/16/22 21:53		1387483	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.10	2
	EPA 300.0 - Disinfection ByProducts by 300.0								
	02/18/22 19:44		1388051	(EPA 300.0)	Bromide	200	ug/L	5.0	1
	EPA 300.0 - Chloride, Sulfate by EPA 300.0								

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	02/16/22 21:53		1387498	(EPA 300.0)	Chloride	55	mg/L	1.0	2
	02/16/22 21:53		1387498	(EPA 300.0)	Sulfate	10	mg/L	1.0	2
	SW 8015B - (SUB)Gas Fraction Hydrocarbons								
02/17/22	02/17/22 19:53			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
	SW 8015B - TPH 8015 Diesel and Motor Oil								
02/21/22	02/22/22 22:46			(SW 8015B)	TPH Diesel	ND	mg/L	0.025	1
02/21/22	02/22/22 22:46			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.051	1
	EPA 8015 - Jet Fuel 5 C8-C18								
02/21/22	02/22/22 22:46			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.051	1
	EPA 245.1 - Mercury by 245.1 Subbed								
02/24/22	02/24/22 19:33			(EPA 245.1)	Mercury	ND	ug/L	0.1	1
	EPA 625 - 625PAH in ug/L								
02/22/22	03/17/22 00:00			(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Acenaphthene	0.00501	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Anthracene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Chrysene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Fluoranthene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
02/22/22	03/17/22 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	1

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02/22/22	03/17/22 00:00			(EPA 625)	Pyrene	ND	ug/L	0.005	1
		EPA 8015 - Jet Fuel 8 C8-C18							
	02/22/22 22:46			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.051	1
		EPA 625 - 625 Acid Extractable in ug/L							
02/22/22	03/17/22 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzoic acid	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1
02/22/22	03/17/22 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
		EPA 625 - 625 Base Neutral Extractable in ug/L							
02/22/22	03/17/22 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1

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Laboratory Data

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
02/16/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
02/22/22	03/17/22 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
02/22/22	03/17/22 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
		SW8015C - Ethanol							
	02/18/22 12:32			(SW8015C)	Ethanol	ND	ug/L	2000	1
		EPA 524.2 - Volatile Organics by GCMS							
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2,3-Trichlorobenzene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2,4-Trichlorobenzene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2,4-Trimethylbenzene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,3,5-Trimethylbenzene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Acetone	ND (LM)	ug/L	10	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Bromoform	ND (VC,R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1

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Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Dichloromethane	ND (BM)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Hexachlorobutadiene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Naphthalene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	n-Butylbenzene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Styrene	ND (R7)	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1

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02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	1,2-Dichloroethane-d4	111	%		1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	4-Bromofluorobenzene	96	%		1
02/18/22	02/18/22 21:49	1388362	1388371	(EPA 524.2)	Toluene-d8	92	%		1
			EPA 524.2 SIM - TBA by EPA 524.2 Modified						
02/21/22	02/21/22 21:24	1388586	1388588	(EPA 524.2 SIM)	t-Butyl Alcohol	ND	ug/L	2.0	1
02/21/22	02/21/22 21:24	1388586	1388588	(EPA 524.2 SIM)	1,2-Dichloroethane-d4	102	%		1
02/21/22	02/21/22 21:24	1388586	1388588	(EPA 524.2 SIM)	4-Bromofluorobenzene	102	%		1
02/21/22	02/21/22 21:24	1388586	1388588	(EPA 524.2 SIM)	Toluene-d8	100	%		1
			SM 4500F-C - Fluoride						
	03/03/22 21:39		1391038	(SM 4500F-C)	Fluoride	0.073	mg/L	0.050	1
			SM 2320B - Alkalinity in CaCO3 units						
	02/25/22 22:37		1389618	(SM 2320B)	Alkalinity in CaCO3 units	62	mg/L	2.0	1
			E160.1/SM2540C - Total Dissolved Solids (TDS)						
02/21/22	02/22/22 19:19	1388469	1388474	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	210	mg/L	10	1
			SM4500-HB - PH (H3=past HT not compliant)						
	02/25/22 22:37		1389621	(SM4500-HB)	PH (H3=past HT not compliant)	7.9	Units	0.10	1
			SM2510B - Specific Conductance						
	02/25/22 22:37		1389625	(SM2510B)	Specific Conductance, 25 C	330	umho/cm	2.0	1
TRAVEL BLANK Raw (202202160932)							**Sampled on 02/15/2022 1030**		
			EPA 504.1 - EPA Method 504.1						
02/24/22	02/24/22 20:19	1389140	1389527	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.040	1
02/24/22	02/24/22 20:19	1389140	1389527	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.010	1
02/24/22	02/24/22 20:19	1389140	1389527	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.010	1
02/24/22	02/24/22 20:19	1389140	1389527	(EPA 504.1)	1,2-Dibromopropane	103	%		1
			SW 8015B - (SUB)Gas Fraction Hydrocarbons						
02/17/22	02/17/22 19:17			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
			EPA 524.2 - Volatile Organics by GCMS						
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1

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02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2,4-Trichlorobenzene	ND (LM)	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Acetone	ND	ug/L	10	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Ethyl benzene	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: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
02/16/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	1,2-Dichloroethane-d4	100	%		1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	4-Bromofluorobenzene	99	%		1
02/17/22	02/18/22 17:55	1388466	1388468	(EPA 524.2)	Toluene-d8	92	%		1
			EPA 524.2 SIM - TBA by EPA 524.2 Modified						
02/21/22	02/21/22 21:01	1388586	1388588	(EPA 524.2 SIM)	t-Butyl Alcohol	ND	ug/L	2.0	1
02/21/22	02/21/22 21:01	1388586	1388588	(EPA 524.2 SIM)	1,2-Dichloroethane-d4	102	%		1
02/21/22	02/21/22 21:01	1388586	1388588	(EPA 524.2 SIM)	4-Bromofluorobenzene	98	%		1

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Laboratory Data

Report: 987883
Project: INTERA
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Honolulu Board of Water Supply
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630 South Beretania Street
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Honolulu, HI 96843

Samples Received on:
02/16/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
02/21/22	02/21/22 21:01	1388586	1388588	(EPA 524.2 SIM)	Toluene-d8	98	%		1
BWS2253-J1-AQ (202203240047)							**Sampled on 03/22/2022 0900**		
				EPA 505 - Organochlorine Pesticides/PCBs					
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Aldrin	ND	ug/L	0.010	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Chlordane	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Dieldrin	ND	ug/L	0.0100	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Endrin	ND	ug/L	0.010	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Heptachlor	ND	ug/L	0.010	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.010	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.010	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Methoxychlor	ND	ug/L	0.050	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.080	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Total PCBs	ND	ug/L	0.10	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Toxaphene	ND	ug/L	0.50	1
03/25/22	03/26/22 19:39	1396071	1396932	(EPA 505)	Tetrachlorometaxylene	110	%		1

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Nitrate, Nitrite by EPA 300.0

Analytical Batch: 1387483 **Analysis Date: 02/16/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: TLH

Chloride, Sulfate by EPA 300.0

Analytical Batch: 1387498 **Analysis Date: 02/16/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: TLH

ICPMS Metals

Prep Batch: 1387525 Analytical Batch: 1387723 **Analysis Date: 02/21/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: LUPE

Mercury ICPMS

Prep Batch: 1387525 Analytical Batch: 1387726 **Analysis Date: 02/21/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: LUPE

ICP Metals

Prep Batch: 1387525 Analytical Batch: 1387868 **Analysis Date: 02/18/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: NINA

Disinfection ByProducts by 300.0

Analytical Batch: 1388051 **Analysis Date: 02/18/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: NJR

Volatile Organics by GCMS

Prep Batch: 1388362 Analytical Batch: 1388371 **Analysis Date: 02/18/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: TG9W

Volatile Organics by GCMS

Prep Batch: 1388466 Analytical Batch: 1388468 **Analysis Date: 02/18/2022**

202202160932	TRAVEL BLANK Raw	Analyzed by: KCP

Total Dissolved Solids (TDS)

Prep Batch: 1388469 Analytical Batch: 1388474 **Analysis Date: 02/22/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: TJ52

TBA by EPA 524.2 Modified

Prep Batch: 1388586 Analytical Batch: 1388588 **Analysis Date: 02/21/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: GFF3
202202160932	TRAVEL BLANK Raw	Analyzed by: GFF3

EPA Method 504.1

Prep Batch: 1389140 Analytical Batch: 1389527 **Analysis Date: 02/24/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: DYM
202202160932	TRAVEL BLANK Raw	Analyzed by: DYM

Alkalinity in CaCO3 units

Analytical Batch: 1389618 **Analysis Date: 02/25/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: D5MQ

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PH (H3=past HT not compliant)

Analytical Batch: 1389621 **Analysis Date: 02/25/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: D5MQ

Specific Conductance

Analytical Batch: 1389625 **Analysis Date: 02/25/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: D5MQ

Organochlorine Pesticides/PCBs

Prep Batch: 1389568 Analytical Batch: 1389922 **Analysis Date: 02/26/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: LRL

Semivolatiles by GCMS

Prep Batch: 1387862 Analytical Batch: 1390989 **Analysis Date: 02/28/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: PAC

Fluoride

Analytical Batch: 1391038 **Analysis Date: 03/03/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: D5MQ

Organochlorine Pesticides

Prep Batch: 1389832 Analytical Batch: 1396621 **Analysis Date: 02/26/2022**

202202160931	BWS2253-J1-AQ	Analyzed by: LRL

Organochlorine Pesticides/PCBs

Prep Batch: 1396071 Analytical Batch: 1396932 **Analysis Date: 03/26/2022**

202203240047	BWS2253-J1-AQ	Analyzed by: LRL

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Project: INTERA
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
Nitrate, Nitrite by EPA 300.0 by EPA 300.0									
Analytical Batch: 1387483						**Analysis Date: 02/16/2022**			
LCS1	Nitrate as Nitrogen by IC		2.5	2.47	mg/L	99	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.47	mg/L	99	(90-110)	20	0.0
MBLK	Nitrate as Nitrogen by IC			<0.0042	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0597	mg/L	119	(50-150)		
MS_202202160156	Nitrate as Nitrogen by IC	0.95	1.3	3.50	mg/L	102	(80-120)		
MS_202202160878	Nitrate as Nitrogen by IC	0.063	1.3	1.39	mg/L	106	(80-120)		
MSD_202202160156	Nitrate as Nitrogen by IC	0.95	1.3	3.46	mg/L	100	(80-120)	20	1.0
MSD_202202160878	Nitrate as Nitrogen by IC	0.063	1.3	1.31	mg/L	100	(80-120)	20	5.9
LCS1	Nitrite Nitrogen by IC		1	1.01	mg/L	101	(90-110)		
LCS2	Nitrite Nitrogen by IC		1	1.01	mg/L	101	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.0050	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0485	mg/L	97	(50-150)		
MS_202202160156	Nitrite Nitrogen by IC	ND	0.5	1.00	mg/L	100	(80-120)		
MS_202202160878	Nitrite Nitrogen by IC	ND	0.5	0.541	mg/L	108	(80-120)		
MSD_202202160156	Nitrite Nitrogen by IC	ND	0.5	0.981	mg/L	98	(80-120)	20	2.3
MSD_202202160878	Nitrite Nitrogen by IC	ND	0.5	0.510	mg/L	102	(80-120)	20	6.2
Chloride, Sulfate by EPA 300.0 by EPA 300.0									
Analytical Batch: 1387498						**Analysis Date: 02/16/2022**			
LCS1	Chloride		25	25.2	mg/L	101	(90-110)		
LCS2	Chloride		25	25.2	mg/L	101	(90-110)	20	0.0
MBLK	Chloride			<0.1397	mg/L				
MRL_CHK	Chloride		0.5	0.488	mg/L	98	(50-150)		
MS_202202160878	Chloride	0.75	13	14.1	mg/L	107	(80-120)		
MSD_202202160878	Chloride	0.75	13	13.3	mg/L	101	(80-120)	20	6.0
LCS1	Sulfate		50	50.2	mg/L	100	(90-110)		
LCS2	Sulfate		50	50.2	mg/L	100	(90-110)	20	0.0
MBLK	Sulfate			<0.0614	mg/L				
MRL_CHK	Sulfate		1	0.981	mg/L	98	(50-150)		
MRLLW	Sulfate		0.25	0.266	mg/L	107	(50-150)		
MS_202202160878	Sulfate	2.5	25	29.4	mg/L	108	(80-120)		
MSD_202202160878	Sulfate	2.5	25	27.8	mg/L	101	(80-120)	20	5.6
ICPMS Metals by EPA 200.8									
Analytical Batch: 1387723						**Analysis Date: 02/21/2022**			
LCS1	Antimony Total ICAP/MS		50	51.9	ug/L	104	(85-115)		

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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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Antimony Total ICAP/MS		50	52.3	ug/L	105	(85-115)	20	0.77
MBLK	Antimony Total ICAP/MS			<0.2437	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1	1.09	ug/L	109	(50-150)		
MS_202202161098	Antimony Total ICAP/MS	ND	50	52.6	ug/L	105	(70-130)		
MS2_202202160931	Antimony Total ICAP/MS	ND	50	51.9	ug/L	104	(70-130)		
MSD_202202161098	Antimony Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)	20	1.0
MSD2_202202160931	Antimony Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)	20	2.3
LCS1	Arsenic Total ICAP/MS		50	50.0	ug/L	100	(85-115)		
LCS2	Arsenic Total ICAP/MS		50	50.8	ug/L	102	(85-115)	20	1.6
MBLK	Arsenic Total ICAP/MS			<0.4134	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1	1.15	ug/L	115	(50-150)		
MS_202202161098	Arsenic Total ICAP/MS	ND	50	51.5	ug/L	103	(70-130)		
MS2_202202160931	Arsenic Total ICAP/MS	ND	50	49.9	ug/L	99	(70-130)		
MSD_202202161098	Arsenic Total ICAP/MS	ND	50	51.6	ug/L	103	(70-130)	20	0.13
MSD2_202202160931	Arsenic Total ICAP/MS	ND	50	50.3	ug/L	100	(70-130)	20	0.73
LCS1	Beryllium Total ICAP/MS		25	25.4	ug/L	102	(85-115)		
LCS2	Beryllium Total ICAP/MS		25	25.7	ug/L	103	(85-115)	20	1.2
MBLK	Beryllium Total ICAP/MS			<0.1106	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1	1.08	ug/L	108	(50-150)		
MS_202202161098	Beryllium Total ICAP/MS	ND	25	25.8	ug/L	103	(70-130)		
MS2_202202160931	Beryllium Total ICAP/MS	ND	25	26.1	ug/L	104	(70-130)		
MSD_202202161098	Beryllium Total ICAP/MS	ND	25	25.6	ug/L	102	(70-130)	20	0.84
MSD2_202202160931	Beryllium Total ICAP/MS	ND	25	26.0	ug/L	104	(70-130)	20	0.019
LCS1	Cadmium Total ICAP/MS		25	24.9	ug/L	100	(85-115)		
LCS2	Cadmium Total ICAP/MS		25	25.1	ug/L	101	(85-115)	20	0.80
MBLK	Cadmium Total ICAP/MS			<0.0546	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.536	ug/L	107	(50-150)		
MS_202202161098	Cadmium Total ICAP/MS	ND	25	24.1	ug/L	96	(70-130)		
MS2_202202160931	Cadmium Total ICAP/MS	ND	25	24.6	ug/L	99	(70-130)		
MSD_202202161098	Cadmium Total ICAP/MS	ND	25	24.5	ug/L	98	(70-130)	20	1.6
MSD2_202202160931	Cadmium Total ICAP/MS	ND	25	25.0	ug/L	100	(70-130)	20	1.5
LCS1	Chromium Total ICAP/MS		50	50.7	ug/L	101	(85-115)		
LCS2	Chromium Total ICAP/MS		50	51.7	ug/L	103	(85-115)	20	2.0
MBLK	Chromium Total ICAP/MS			<0.580	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	0.926	ug/L	93	(50-150)		
MS_202202161098	Chromium Total ICAP/MS	ND	50	51.8	ug/L	103	(70-130)		
MS2_202202160931	Chromium Total ICAP/MS	5.2	50	54.7	ug/L	99	(70-130)		
MSD_202202161098	Chromium Total ICAP/MS	ND	50	53.5	ug/L	106	(70-130)	20	3.2

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Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD2_202202160931	Chromium Total ICAP/MS	5.2	50	55.2	ug/L	100	(70-130)	20	0.95
LCS1	Copper Total ICAP/MS		50	50.0	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		50	51.3	ug/L	103	(85-115)	20	2.6
MBLK	Copper Total ICAP/MS			<1.343	ug/L				
MRL_CHK	Copper Total ICAP/MS		2	2.08	ug/L	104	(50-150)		
MS_202202161098	Copper Total ICAP/MS	ND	50	47.6	ug/L	95	(70-130)		
MS2_202202160931	Copper Total ICAP/MS	ND	50	47.6	ug/L	95	(70-130)		
MSD_202202161098	Copper Total ICAP/MS	ND	50	47.5	ug/L	95	(70-130)	20	0.16
MSD2_202202160931	Copper Total ICAP/MS	ND	50	48.4	ug/L	97	(70-130)	20	1.6
LCS1	Lead Total ICAP/MS		50	51.8	ug/L	104	(85-115)		
LCS2	Lead Total ICAP/MS		50	51.6	ug/L	103	(85-115)	20	0.39
MBLK	Lead Total ICAP/MS			<0.0608	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.530	ug/L	106	(50-150)		
MS_202202161098	Lead Total ICAP/MS	ND	50	48.4	ug/L	97	(70-130)		
MS2_202202160931	Lead Total ICAP/MS	ND	50	48.4	ug/L	97	(70-130)		
MSD_202202161098	Lead Total ICAP/MS	ND	50	49.9	ug/L	100	(70-130)	20	3.0
MSD2_202202160931	Lead Total ICAP/MS	ND	50	49.8	ug/L	100	(70-130)	20	2.9
LCS1	Nickel Total ICAP/MS		50	48.8	ug/L	98	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.6	ug/L	99	(85-115)	20	1.6
MBLK	Nickel Total ICAP/MS			<0.4959	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5	5.09	ug/L	102	(50-150)		
MS_202202161098	Nickel Total ICAP/MS	ND	50	47.8	ug/L	95	(70-130)		
MS2_202202160931	Nickel Total ICAP/MS	26	50	72.3	ug/L	92	(70-130)		
MSD_202202161098	Nickel Total ICAP/MS	ND	50	47.7	ug/L	95	(70-130)	20	0.16
MSD2_202202160931	Nickel Total ICAP/MS	26	50	73.1	ug/L	93	(70-130)	20	1.1
LCS1	Selenium Total ICAP/MS		50	52.0	ug/L	104	(85-115)		
LCS2	Selenium Total ICAP/MS		50	52.5	ug/L	105	(85-115)	20	0.96
MBLK	Selenium Total ICAP/MS			<0.6224	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5	5.20	ug/L	104	(50-150)		
MS_202202161098	Selenium Total ICAP/MS	ND	50	49.9	ug/L	99	(70-130)		
MS2_202202160931	Selenium Total ICAP/MS	ND	50	49.6	ug/L	99	(70-130)		
MSD_202202161098	Selenium Total ICAP/MS	ND	50	49.9	ug/L	99	(70-130)	20	0.048
MSD2_202202160931	Selenium Total ICAP/MS	ND	50	50.3	ug/L	100	(70-130)	20	1.5
LCS1	Silver Total ICAP/MS		25	25.0	ug/L	100	(85-115)		
LCS2	Silver Total ICAP/MS		25	25.4	ug/L	102	(85-115)	20	1.6
MBLK	Silver Total ICAP/MS			<0.1929	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.504	ug/L	101	(50-150)		
MS_202202161098	Silver Total ICAP/MS	ND	25	23.3	ug/L	93	(70-130)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS2_202202160931	Silver Total ICAP/MS	ND	25	23.6	ug/L	94	(70-130)		
MSD_202202161098	Silver Total ICAP/MS	ND	25	23.5	ug/L	94	(70-130)	20	0.83
MSD2_202202160931	Silver Total ICAP/MS	ND	25	24.0	ug/L	95	(70-130)	20	1.5
LCS1	Thallium Total ICAP/MS		50	50.5	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MBLK	Thallium Total ICAP/MS			<0.1449	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1	1.06	ug/L	106	(50-150)		
MS_202202161098	Thallium Total ICAP/MS	ND	50	46.8	ug/L	94	(70-130)		
MS2_202202160931	Thallium Total ICAP/MS	ND	50	47.2	ug/L	94	(70-130)		
MSD_202202161098	Thallium Total ICAP/MS	ND	50	48.5	ug/L	97	(70-130)	20	3.5
MSD2_202202160931	Thallium Total ICAP/MS	ND	50	48.6	ug/L	97	(70-130)	20	3.0
LCS1	Zinc Total ICAP/MS		50	49.3	ug/L	99	(85-115)		
LCS2	Zinc Total ICAP/MS		50	50.1	ug/L	100	(85-115)	20	1.6
MBLK	Zinc Total ICAP/MS			<10.62	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.6	ug/L	103	(50-150)		
MS_202202161098	Zinc Total ICAP/MS	ND	50	47.7	ug/L	95	(70-130)		
MS2_202202160931	Zinc Total ICAP/MS	ND	50	48.7	ug/L	97	(70-130)		
MSD_202202161098	Zinc Total ICAP/MS	ND	50	50.5	ug/L	101	(70-130)	20	5.7
MSD2_202202160931	Zinc Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)	20	0.96
Mercury ICPMS by EPA 200.8									
Analytical Batch: 1387726						**Analysis Date: 02/14/2022**			
LCS1	Mercury ICPMS		0.75	0.760	ug/L	101	(85-115)		
LCS2	Mercury ICPMS		0.75	0.751	ug/L	100	(85-115)	20	1.2
MBLK	Mercury ICPMS			<0.1	ug/L				
MRL_CHK	Mercury ICPMS		0.2	0.194	ug/L	97	(50-150)		
MS_202202210133	Mercury ICPMS	ND	0.75	0.728	ug/L	96	(70-130)		
MS2_202202160931	Mercury ICPMS	ND	0.75	0.857	ug/L	96	(70-130)		
MSD_202202210133	Mercury ICPMS	ND	0.75	0.748	ug/L	99	(70-130)	20	2.7
MSD2_202202160931	Mercury ICPMS	ND	0.75	0.892	ug/L	101	(70-130)	20	4.0
ICP Metals by EPA 200.7									
Analytical Batch: 1387868						**Analysis Date: 02/18/2022**			
LCS1	Calcium Total ICAP		50	51.8	mg/L	104	(85-115)		
LCS2	Calcium Total ICAP		50	52.0	mg/L	104	(85-115)	20	0.39
MBLK	Calcium Total ICAP			<0.043087	mg/L				
MRL_CHK	Calcium Total ICAP		1	1.02	mg/L	102	(50-150)		
MS_202202160931	Calcium Total ICAP	11	50	61.3	mg/L	100	(70-130)		
MS2_202201270144	Calcium Total ICAP	ND	50	50.4	mg/L	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202160931	Calcium Total ICAP	11	50	62.2	mg/L	102	(70-130)	20	1.7
MSD2_202201270144	Calcium Total ICAP	ND	50	51.2	mg/L	102	(70-130)	20	1.7
LCS1	Magnesium Total ICAP		20	20.3	mg/L	101	(85-115)		
LCS2	Magnesium Total ICAP		20	20.3	mg/L	102	(85-115)	20	0.0
MBLK	Magnesium Total ICAP			<0.009606	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0951	mg/L	95	(50-150)		
MS_202202160931	Magnesium Total ICAP	11	20	30.8	mg/L	98	(70-130)		
MS2_202201270144	Magnesium Total ICAP	ND	20	19.8	mg/L	99	(70-130)		
MSD_202202160931	Magnesium Total ICAP	11	20	31.2	mg/L	100	(70-130)	20	1.1
MSD2_202201270144	Magnesium Total ICAP	ND	20	20.2	mg/L	101	(70-130)	20	2.2
LCS1	Potassium Total ICAP		20	20.6	mg/L	103	(85-115)		
LCS2	Potassium Total ICAP		20	20.7	mg/L	103	(85-115)	20	0.48
MBLK	Potassium Total ICAP			<0.233312	mg/L				
MRL_CHK	Potassium Total ICAP		1	0.756	mg/L	76	(50-150)		
MS_202202160931	Potassium Total ICAP	1.9	20	23.0	mg/L	105	(70-130)		
MS2_202201270144	Potassium Total ICAP	ND	20	20.2	mg/L	101	(70-130)		
MSD_202202160931	Potassium Total ICAP	1.9	20	23.2	mg/L	106	(70-130)	20	1.0
MSD2_202201270144	Potassium Total ICAP	ND	20	20.7	mg/L	104	(70-130)	20	2.3
LCS1	Sodium Total ICAP		50	50.9	mg/L	102	(85-115)		
LCS2	Sodium Total ICAP		50	51.3	mg/L	103	(85-115)	20	0.78
MBLK	Sodium Total ICAP			<0.4255	mg/L				
MRL_CHK	Sodium Total ICAP		1	1.04	mg/L	104	(50-150)		
MS_202202160931	Sodium Total ICAP	36	50	82.5	mg/L	93	(70-130)		
MS2_202201270144	Sodium Total ICAP	ND	50	49.6	mg/L	98	(70-130)		
MSD_202202160931	Sodium Total ICAP	36	50	83.1	mg/L	94	(70-130)	20	0.77
MSD2_202201270144	Sodium Total ICAP	ND	50	50.7	mg/L	100	(70-130)	20	2.2

Disinfection ByProducts by 300.0 by EPA 300.0

Analytical Batch: 1388051 **Analysis Date: 02/18/2022**

LCS1	Bromide		100	100	ug/L	101	(90-110)		
LCS2	Bromide		100	98.8	ug/L	99	(90-110)	10	2.1
MBLK	Bromide			<2.12	ug/L				
MRL_CHK	Bromide		5	5.63	ug/L	113	(50-150)		
MS_202202150916	Bromide	ND	50	50.3	ug/L	101	(80-120)		
MS_202202160147	Bromide	ND	50	51.1	ug/L	94	(80-120)		
MSD_202202150916	Bromide	ND	50	49.5	ug/L	99	(80-120)	15	1.6
MSD_202202160147	Bromide	ND	50	53.4	ug/L	99	(80-120)	15	4.5

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
Volatile Organics by GCMS by EPA 524.2									
Analytical Batch: 1388371						**Analysis Date: 02/18/2022**			
LCS1	1,1,1,2-Tetrachloroethane		5	5.56	ug/L	111	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.73	ug/L	95	(70-130)	20	16
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1,1-Trichloroethane		5	5.49	ug/L	110	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.79	ug/L	96	(70-130)	20	14
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	5.73	ug/L	115	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.76	ug/L	95	(70-130)	20	19
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,1,2-Trichloroethane		5	5.52	ug/L	110	(70-130)		
LCS2	1,1,2-Trichloroethane		5	5.00	ug/L	100	(70-130)	20	9.9
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloroethane		5	5.44	ug/L	109	(70-130)		
LCS2	1,1-Dichloroethane		5	4.72	ug/L	94	(70-130)	20	14
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.28	ug/L	106	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.53	ug/L	91	(70-130)	20	15
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloropropene		5	5.25	ug/L	105	(70-130)		
LCS2	1,1-Dichloropropene		5	4.61	ug/L	92	(70-130)	20	13
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	6.11	ug/L	122	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.98	ug/L	100	(70-130)	20	20
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2,3-Trichloropropane		5	5.57	ug/L	111	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.83	ug/L	97	(70-130)	20	14
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				

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MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	5.71	ug/L	114	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.54	ug/L	91	(70-130)	20	**23**
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	5.79	ug/L	116	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.55	ug/L	91	(70-130)	20	**24**
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	1,2-Dichloroethane		5	5.63	ug/L	113	(70-130)		
LCS2	1,2-Dichloroethane		5	4.84	ug/L	97	(70-130)	20	15
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			114	%	114	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	106	%	106	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)		5	105	%	105	(70-130)		
LCS1	1,2-Dichloropropane		5	5.38	ug/L	108	(70-130)		
LCS2	1,2-Dichloropropane		5	4.72	ug/L	94	(70-130)	20	13
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	5.61	ug/L	112	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	4.41	ug/L	88	(70-130)	20	**24**
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.380	ug/L	76	(50-150)		
LCS1	1,3-Dichloropropane		5	5.53	ug/L	111	(70-130)		
LCS2	1,3-Dichloropropane		5	5.01	ug/L	100	(70-130)	20	9.9
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	2,2-Dichloropropane		5	5.85	ug/L	117	(70-130)		
LCS2	2,2-Dichloropropane		5	5.22	ug/L	104	(70-130)	20	11
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	2-Butanone (MEK)		50	59.5	ug/L	119	(70-130)		
LCS2	2-Butanone (MEK)		50	53.8	ug/L	108	(70-130)	20	10
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	6.25	ug/L	125	(50-150)		

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

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	2-Hexanone		50	55.9	ug/L	112	(70-130)		
LCS2	2-Hexanone		50	49.8	ug/L	100	(70-130)	20	12
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5	6.39	ug/L	128	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	89.6	%	90	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	94.0	%	94	(70-130)		
MBLK	4-Bromofluorobenzene (S)			91.2	%	91	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	92.4	%	92	(70-130)		
MRLLW	4-Bromofluorobenzene (S)		5	92.8	%	93	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	56.3	ug/L	113	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	49.8	ug/L	100	(70-130)	20	12
MBLK	4-Methyl-2-Pentanone (MIBK)			<5.0	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	5.93	ug/L	119	(50-150)		
LCS1	Acetone		50	58.6	ug/L	117	(70-130)		
LCS2	Acetone		50	52.2	ug/L	104	(70-130)	20	12
MBLK	Acetone			<10	ug/L				
MRL_CHK	Acetone		5	9.36	ug/L	**187**	(50-150)		
LCS1	Benzene		5	5.52	ug/L	110	(70-130)		
LCS2	Benzene		5	4.81	ug/L	96	(70-130)	20	14
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromobenzene		5	5.27	ug/L	105	(70-130)		
LCS2	Bromobenzene		5	4.47	ug/L	89	(70-130)	20	16
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromochloromethane		5	5.64	ug/L	113	(70-130)		
LCS2	Bromochloromethane		5	4.96	ug/L	99	(70-130)	20	13
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromodichloromethane		5	5.42	ug/L	108	(70-130)		
LCS2	Bromodichloromethane		5	4.76	ug/L	95	(70-130)	20	13
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromoethane		5	5.46	ug/L	109	(70-130)		
LCS2	Bromoethane		5	4.63	ug/L	93	(70-130)	20	17
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromoform		5	5.94	ug/L	119	(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	Bromoform		5	4.60	ug/L	92	(70-130)	20	**25**
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.380	ug/L	76	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.36	ug/L	107	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	4.50	ug/L	90	(70-130)	20	17
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Carbon disulfide		5	5.03	ug/L	101	(70-130)		
LCS2	Carbon disulfide		5	4.37	ug/L	87	(70-130)	20	14
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
LCS1	Carbon Tetrachloride		5	5.36	ug/L	107	(70-130)		
LCS2	Carbon Tetrachloride		5	4.78	ug/L	96	(70-130)	20	11
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chlorobenzene		5	5.36	ug/L	107	(70-130)		
LCS2	Chlorobenzene		5	4.80	ug/L	96	(70-130)	20	11
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chlorodibromomethane		5	5.70	ug/L	114	(70-130)		
LCS2	Chlorodibromomethane		5	4.90	ug/L	98	(70-130)	20	15
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloroethane		5	5.52	ug/L	110	(70-130)		
LCS2	Chloroethane		5	4.76	ug/L	95	(70-130)	20	15
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	5.45	ug/L	109	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.72	ug/L	94	(70-130)	20	14
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	4.88	ug/L	98	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	4.42	ug/L	88	(70-130)	20	9.9
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	5.32	ug/L	106	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	4.79	ug/L	96	(70-130)	20	11
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				

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

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Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.500	ug/L	100	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	5.45	ug/L	109	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.78	ug/L	96	(70-130)	20	13
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Dibromomethane		5	5.48	ug/L	110	(70-130)		
LCS2	Dibromomethane		5	5.06	ug/L	101	(70-130)	20	8.0
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Dichlorodifluoromethane		5	4.13	ug/L	83	(70-130)		
LCS2	Dichlorodifluoromethane		5	3.62	ug/L	72	(70-130)	20	13
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.620	ug/L	124	(50-150)		
LCS1	Dichloromethane		5	5.31	ug/L	106	(70-130)		
LCS2	Dichloromethane		5	4.60	ug/L	92	(70-130)	20	14
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Di-isopropyl ether		5	5.46	ug/L	109	(70-130)		
LCS2	Di-isopropyl ether		5	4.79	ug/L	96	(70-130)	20	13
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.510	ug/L	102	(50-150)		
LCS1	Ethyl benzene		5	5.63	ug/L	113	(70-130)		
LCS2	Ethyl benzene		5	4.88	ug/L	98	(70-130)	20	14
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Hexachlorobutadiene		5	5.82	ug/L	116	(70-130)		
LCS2	Hexachlorobutadiene		5	4.65	ug/L	93	(70-130)	20	**22**
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Isopropylbenzene		5	5.52	ug/L	110	(70-130)		
LCS2	Isopropylbenzene		5	4.58	ug/L	92	(70-130)	20	19
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	m,p-Xylenes		10	11.4	ug/L	114	(70-130)		
LCS2	m,p-Xylenes		10	9.79	ug/L	98	(70-130)	20	15
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.820	ug/L	82	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.450	ug/L	90	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	m-Dichlorobenzene (1,3-DCB)		5	5.54	ug/L	111	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.59	ug/L	92	(70-130)	20	19
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	5.41	ug/L	108	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.90	ug/L	98	(70-130)	20	9.9
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.570	ug/L	114	(50-150)		
LCS1	Naphthalene		5	6.11	ug/L	122	(70-130)		
LCS2	Naphthalene		5	4.95	ug/L	99	(70-130)	20	**21**
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.490	ug/L	98	(50-150)		
LCS1	n-Butylbenzene		5	6.39	ug/L	128	(70-130)		
LCS2	n-Butylbenzene		5	5.04	ug/L	101	(70-130)	20	**24**
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	n-Propylbenzene		5	5.27	ug/L	105	(70-130)		
LCS2	n-Propylbenzene		5	4.57	ug/L	91	(70-130)	20	14
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	o-Chlorotoluene		5	5.46	ug/L	109	(70-130)		
LCS2	o-Chlorotoluene		5	4.68	ug/L	94	(70-130)	20	15
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.470	ug/L	94	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	6.05	ug/L	121	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.92	ug/L	98	(70-130)	20	**21**
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.520	ug/L	104	(50-150)		
LCS1	o-Xylene		5	5.47	ug/L	109	(70-130)		
LCS2	o-Xylene		5	4.70	ug/L	94	(70-130)	20	15
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.410	ug/L	82	(50-150)		
LCS1	p-Chlorotoluene		5	5.42	ug/L	108	(70-130)		
LCS2	p-Chlorotoluene		5	4.62	ug/L	92	(70-130)	20	16
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	5.50	ug/L	110	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.66	ug/L	93	(70-130)	20	17

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.480	ug/L	96	(50-150)		
LCS1	p-Isopropyltoluene		5	5.68	ug/L	114	(70-130)		
LCS2	p-Isopropyltoluene		5	4.66	ug/L	93	(70-130)	20	20
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.410	ug/L	82	(50-150)		
LCS1	sec-Butylbenzene		5	5.83	ug/L	117	(70-130)		
LCS2	sec-Butylbenzene		5	4.75	ug/L	95	(70-130)	20	20
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Styrene		5	5.82	ug/L	116	(70-130)		
LCS2	Styrene		5	4.74	ug/L	95	(70-130)	20	**21**
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.370	ug/L	74	(50-150)		
LCS1	tert-amyl Methyl Ether		5	5.40	ug/L	108	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.79	ug/L	96	(70-130)	20	12
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.470	ug/L	94	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	5.33	ug/L	107	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	4.91	ug/L	98	(70-130)	20	8.2
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	5.37	ug/L	107	(70-130)		
LCS2	tert-Butylbenzene		5	4.54	ug/L	91	(70-130)	20	17
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	5.69	ug/L	114	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.83	ug/L	97	(70-130)	20	16
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene		5	5.53	ug/L	111	(70-130)		
LCS2	Toluene		5	4.79	ug/L	96	(70-130)	20	14
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Toluene-d8 (S)		5	101	%	101	(70-130)		
LCS2	Toluene-d8 (S)		5	102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			91.4	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	94.0	%	94	(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).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRLLW	Toluene-d8 (S)		5	94.2	%	94	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	5.50	ug/L	110	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.84	ug/L	97	(70-130)	20	13
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	5.63	ug/L	113	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	5.01	ug/L	100	(70-130)	20	12
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.610	ug/L	122	(50-150)		
LCS1	Trichloroethylene (TCE)		5	5.38	ug/L	108	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.72	ug/L	94	(70-130)	20	13
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorofluoromethane		5	5.22	ug/L	104	(70-130)		
LCS2	Trichlorofluoromethane		5	4.64	ug/L	93	(70-130)	20	12
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.34	ug/L	107	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.65	ug/L	93	(70-130)	20	14
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.570	ug/L	114	(50-150)		
LCS1	Vinyl chloride (VC)		5	4.82	ug/L	96	(70-130)		
LCS2	Vinyl chloride (VC)		5	4.48	ug/L	90	(70-130)	20	7.3
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.500	ug/L	100	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.350	ug/L	140	(50-150)		

Volatile Organics by GCMS by EPA 524.2

Analytical Batch: 1388468 **Analysis Date: 02/18/2022**

LCS1	1,1,1,2-Tetrachloroethane		5	4.04	ug/L	81	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.15	ug/L	83	(70-130)	20	2.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.400	ug/L	80	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.25	ug/L	85	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.48	ug/L	90	(70-130)	20	5.3
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	4.19	ug/L	84	(70-130)		

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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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Report: 987883
Project: INTERA
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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	4.67	ug/L	93	(70-130)	20	11
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,1,2-Trichloroethane		5	4.72	ug/L	94	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.53	ug/L	91	(70-130)	20	4.1
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,1-Dichloroethane		5	4.89	ug/L	98	(70-130)		
LCS2	1,1-Dichloroethane		5	4.92	ug/L	98	(70-130)	20	0.61
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,1-Dichloroethylene		5	4.74	ug/L	95	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.92	ug/L	98	(70-130)	20	3.7
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,1-Dichloropropene		5	4.73	ug/L	95	(70-130)		
LCS2	1,1-Dichloropropene		5	4.64	ug/L	93	(70-130)	20	1.9
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.24	ug/L	85	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.43	ug/L	89	(70-130)	20	4.4
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.720	ug/L	144	(50-150)		
LCS1	1,2,3-Trichloropropane		5	4.34	ug/L	87	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.75	ug/L	95	(70-130)	20	9.0
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.40	ug/L	88	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.54	ug/L	91	(70-130)	20	3.1
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.760	ug/L	**152**	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	4.16	ug/L	83	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.48	ug/L	90	(70-130)	20	7.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2-Dichloroethane		5	4.69	ug/L	94	(70-130)		
LCS2	1,2-Dichloroethane		5	4.80	ug/L	96	(70-130)	20	2.3
MBLK	1,2-Dichloroethane			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	1,2-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	105	%	105	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	100	%	100	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)		5	103	%	103	(70-130)		
LCS1	1,2-Dichloropropane		5	4.68	ug/L	94	(70-130)		
LCS2	1,2-Dichloropropane		5	4.85	ug/L	97	(70-130)	20	3.6
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	4.01	ug/L	80	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	4.38	ug/L	88	(70-130)	20	8.8
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	4.67	ug/L	93	(70-130)		
LCS2	1,3-Dichloropropane		5	4.68	ug/L	94	(70-130)	20	0.21
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
LCS1	2,2-Dichloropropane		5	4.68	ug/L	94	(70-130)		
LCS2	2,2-Dichloropropane		5	4.82	ug/L	96	(70-130)	20	3.0
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	47.6	ug/L	95	(70-130)		
LCS2	2-Butanone (MEK)		50	48.8	ug/L	98	(70-130)	20	2.5
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.87	ug/L	117	(50-150)		
LCS1	2-Hexanone		50	49.8	ug/L	100	(70-130)		
LCS2	2-Hexanone		50	49.5	ug/L	99	(70-130)	20	0.60
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5	5.12	ug/L	102	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	93.6	%	94	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	96.8	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			92.2	%	92	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	94.8	%	95	(70-130)		
MRLLW	4-Bromofluorobenzene (S)		5	93.2	%	93	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	46.2	ug/L	92	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	46.7	ug/L	93	(70-130)	20	1.1
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.
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%
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.66	ug/L	93	(50-150)		
LCS1	Acetone		50	46.8	ug/L	94	(70-130)		
LCS2	Acetone		50	50.4	ug/L	101	(70-130)	20	7.4
MBLK	Acetone			<10	ug/L				
MRL_CHK	Acetone		5	4.59	ug/L	92	(50-150)		
LCS1	Benzene		5	4.59	ug/L	92	(70-130)		
LCS2	Benzene		5	4.69	ug/L	94	(70-130)	20	2.2
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromobenzene		5	4.01	ug/L	80	(70-130)		
LCS2	Bromobenzene		5	4.44	ug/L	89	(70-130)	20	10
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Bromochloromethane		5	4.57	ug/L	91	(70-130)		
LCS2	Bromochloromethane		5	4.67	ug/L	93	(70-130)	20	2.2
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromodichloromethane		5	4.36	ug/L	87	(70-130)		
LCS2	Bromodichloromethane		5	4.38	ug/L	88	(70-130)	20	0.46
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromoethane		5	4.42	ug/L	88	(70-130)		
LCS2	Bromoethane		5	4.72	ug/L	94	(70-130)	20	6.6
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.640	ug/L	128	(50-150)		
LCS1	Bromoform		5	3.91	ug/L	78	(70-130)		
LCS2	Bromoform		5	4.31	ug/L	86	(70-130)	20	9.7
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.600	ug/L	120	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	4.17	ug/L	83	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	4.42	ug/L	88	(70-130)	20	5.8
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.370	ug/L	74	(50-150)		
LCS1	Carbon disulfide		5	3.76	ug/L	75	(70-130)		
LCS2	Carbon disulfide		5	3.89	ug/L	78	(70-130)	20	3.4
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
LCS1	Carbon Tetrachloride		5	4.20	ug/L	84	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Carbon Tetrachloride		5	4.25	ug/L	85	(70-130)	20	1.2
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chlorobenzene		5	4.47	ug/L	89	(70-130)		
LCS2	Chlorobenzene		5	4.47	ug/L	89	(70-130)	20	0.0
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chlorodibromomethane		5	4.55	ug/L	91	(70-130)		
LCS2	Chlorodibromomethane		5	4.45	ug/L	89	(70-130)	20	2.2
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chloroethane		5	4.28	ug/L	86	(70-130)		
LCS2	Chloroethane		5	4.58	ug/L	92	(70-130)	20	6.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.670	ug/L	134	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	4.60	ug/L	92	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.67	ug/L	93	(70-130)	20	1.5
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	4.74	ug/L	95	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	4.86	ug/L	97	(70-130)	20	2.5
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.740	ug/L	148	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	4.76	ug/L	95	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	4.93	ug/L	99	(70-130)	20	3.5
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.630	ug/L	126	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.53	ug/L	91	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.61	ug/L	92	(70-130)	20	1.8
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Dibromomethane		5	4.36	ug/L	87	(70-130)		
LCS2	Dibromomethane		5	4.38	ug/L	88	(70-130)	20	0.46
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Dichlorodifluoromethane		5	5.04	ug/L	101	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.52	ug/L	110	(70-130)	20	9.1
MBLK	Dichlorodifluoromethane			<0.5	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Dichlorodifluoromethane		0.5	0.400	ug/L	80	(50-150)		
LCS1	Dichloromethane		5	4.59	ug/L	92	(70-130)		
LCS2	Dichloromethane		5	4.78	ug/L	96	(70-130)	20	4.1
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Di-isopropyl ether		5	4.72	ug/L	94	(70-130)		
LCS2	Di-isopropyl ether		5	4.87	ug/L	97	(70-130)	20	3.1
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
LCS1	Ethyl benzene		5	4.52	ug/L	90	(70-130)		
LCS2	Ethyl benzene		5	4.60	ug/L	92	(70-130)	20	1.8
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Hexachlorobutadiene		5	4.44	ug/L	89	(70-130)		
LCS2	Hexachlorobutadiene		5	4.38	ug/L	88	(70-130)	20	1.4
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.750	ug/L	150	(50-150)		
LCS1	Isopropylbenzene		5	4.32	ug/L	86	(70-130)		
LCS2	Isopropylbenzene		5	4.71	ug/L	94	(70-130)	20	8.6
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	m,p-Xylenes		10	8.83	ug/L	88	(70-130)		
LCS2	m,p-Xylenes		10	8.83	ug/L	88	(70-130)	20	0.0
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.910	ug/L	91	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.670	ug/L	134	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.14	ug/L	83	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.39	ug/L	88	(70-130)	20	5.9
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.76	ug/L	95	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.99	ug/L	100	(70-130)	20	4.7
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.620	ug/L	124	(50-150)		
LCS1	Naphthalene		5	4.49	ug/L	90	(70-130)		
LCS2	Naphthalene		5	4.70	ug/L	94	(70-130)	20	4.6
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.670	ug/L	134	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	n-Butylbenzene		5	4.86	ug/L	97	(70-130)		
LCS2	n-Butylbenzene		5	4.85	ug/L	97	(70-130)	20	0.21
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.600	ug/L	120	(50-150)		
LCS1	n-Propylbenzene		5	4.22	ug/L	84	(70-130)		
LCS2	n-Propylbenzene		5	4.40	ug/L	88	(70-130)	20	4.2
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Chlorotoluene		5	4.04	ug/L	81	(70-130)		
LCS2	o-Chlorotoluene		5	4.40	ug/L	88	(70-130)	20	8.5
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.68	ug/L	94	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.66	ug/L	93	(70-130)	20	0.43
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.590	ug/L	118	(50-150)		
LCS1	o-Xylene		5	4.28	ug/L	86	(70-130)		
LCS2	o-Xylene		5	4.41	ug/L	88	(70-130)	20	3.0
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.460	ug/L	92	(50-150)		
LCS1	p-Chlorotoluene		5	3.94	ug/L	79	(70-130)		
LCS2	p-Chlorotoluene		5	4.30	ug/L	86	(70-130)	20	8.7
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.17	ug/L	83	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.47	ug/L	89	(70-130)	20	6.9
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.520	ug/L	104	(50-150)		
LCS1	p-Isopropyltoluene		5	4.14	ug/L	83	(70-130)		
LCS2	p-Isopropyltoluene		5	4.48	ug/L	90	(70-130)	20	7.9
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	sec-Butylbenzene		5	4.31	ug/L	86	(70-130)		
LCS2	sec-Butylbenzene		5	4.65	ug/L	93	(70-130)	20	7.6
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Styrene		5	4.60	ug/L	92	(70-130)		
LCS2	Styrene		5	4.58	ug/L	92	(70-130)	20	0.44

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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	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.450	ug/L	90	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.31	ug/L	86	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.45	ug/L	89	(70-130)	20	3.2
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.520	ug/L	104	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	4.48	ug/L	90	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	4.80	ug/L	96	(70-130)	20	6.9
MBLK	tert-Butyl Ethyl Ether			<3.0	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.570	ug/L	114	(50-150)		
LCS1	tert-Butylbenzene		5	4.07	ug/L	81	(70-130)		
LCS2	tert-Butylbenzene		5	4.35	ug/L	87	(70-130)	20	6.7
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	4.40	ug/L	88	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.34	ug/L	87	(70-130)	20	1.4
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.480	ug/L	96	(50-150)		
LCS1	Toluene		5	4.45	ug/L	89	(70-130)		
LCS2	Toluene		5	4.36	ug/L	87	(70-130)	20	2.0
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Toluene-d8 (S)		5	98.4	%	98	(70-130)		
LCS2	Toluene-d8 (S)		5	98.8	%	99	(70-130)		
MBLK	Toluene-d8 (S)			95.4	%	95	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	94.8	%	95	(70-130)		
MRLLW	Toluene-d8 (S)		5	96.0	%	96	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.70	ug/L	94	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.95	ug/L	99	(70-130)	20	5.2
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	4.67	ug/L	93	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.57	ug/L	91	(70-130)	20	2.2
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Trichloroethylene (TCE)		5	4.69	ug/L	94	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.68	ug/L	94	(70-130)	20	0.21
MBLK	Trichloroethylene (TCE)			<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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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	4.48	ug/L	90	(70-130)		
LCS2	Trichlorofluoromethane		5	4.64	ug/L	93	(70-130)	20	3.5
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	4.76	ug/L	95	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.83	ug/L	97	(70-130)	20	1.5
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.610	ug/L	122	(50-150)		
LCS1	Vinyl chloride (VC)		5	4.27	ug/L	85	(70-130)		
LCS2	Vinyl chloride (VC)		5	4.52	ug/L	90	(70-130)	20	5.7
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.650	ug/L	130	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.280	ug/L	112	(50-150)		
Total Dissolved Solids (TDS) by E160.1/SM2540C									
Analytical Batch: 1388474						**Analysis Date: 02/22/2022**			
DUP_202202160586	Total Dissolved Solid (TDS)	200		198	mg/L		(0-10)	10	3.0
DUP_202202161223	Total Dissolved Solid (TDS)	280		266	mg/L		(0-10)	10	5.8
LCS1	Total Dissolved Solid (TDS)		175	196	mg/L	112	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	696	mg/L	99	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<5	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
TBA by EPA 524.2 Modified by EPA 524.2 SIM									
Analytical Batch: 1388588						**Analysis Date: 02/21/2022**			
LCS1	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MBLK	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	t-Butyl Alcohol		5	4.79	ug/L	96	(70-130)		
LCS2	t-Butyl Alcohol		5	4.45	ug/L	89	(70-130)	20	7.4
MBLK	t-Butyl Alcohol			<2	ug/L				
MRL_CHK	t-Butyl Alcohol		2	2.03	ug/L	102	(50-150)		
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		

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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%
LCS2	Toluene-d8 (S)			98.0	%	98	(70-130)		
MBLK	Toluene-d8 (S)			100	%	100	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
Semivolatiles by GCMS by EPA 525.2									
Prep Batch: 1387862 Analytical Batch: 1388612						**Analysis Date: 02/22/2022**			
DUP_202202090876	1,3-Dimethyl-2-nitrobenzene (S)			96.8	%	97	(70-130)		
LCS1	1,3-Dimethyl-2-nitrobenzene (S)		5	94.0	%	94	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)		5	94.6	%	95	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			99.0	%	99	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)		5	98.6	%	99	(70-130)		
MS_202202080473	1,3-Dimethyl-2-nitrobenzene (S)		5	97.6	%	98	(70-130)		
DUP_202202090876	1-Methylnaphthalene			ND	ug/L		(0-20)		
LCS1	1-Methylnaphthalene		2	1.91	ug/L	95	(70-130)		
LCS2	1-Methylnaphthalene		2	1.92	ug/L	96	(70-130)	20	0.52
MBLK	1-Methylnaphthalene			<0.1	ug/L				
MRL_CHK	1-Methylnaphthalene		0.1	0.105	ug/L	105	(50-150)		
MS_202202080473	1-Methylnaphthalene	ND	2	1.95	ug/L	98	(70-130)		
DUP_202202090876	2,4-DDD			ND	ug/L		(0-20)		
LCS1	2,4-DDD		2	2.07	ug/L	103	(70-130)		
LCS2	2,4-DDD		2	2.14	ug/L	107	(70-130)	20	3.3
MBLK	2,4-DDD			<0.1	ug/L				
MRL_CHK	2,4-DDD		0.1	0.112	ug/L	112	(50-150)		
MS_202202080473	2,4-DDD	ND	2	2.04	ug/L	102	(70-130)		
DUP_202202090876	2,4-DDE			ND	ug/L		(0-20)		
LCS1	2,4-DDE		2	1.71	ug/L	86	(70-130)		
LCS2	2,4-DDE		2	1.77	ug/L	88	(70-130)	20	3.5
MBLK	2,4-DDE			<0.1	ug/L				
MRL_CHK	2,4-DDE		0.1	0.103	ug/L	103	(50-150)		
MS_202202080473	2,4-DDE	ND	2	1.69	ug/L	85	(70-130)		
DUP_202202090876	2,4-DDT			ND	ug/L		(0-20)		
LCS1	2,4-DDT		2	1.91	ug/L	96	(70-130)		
LCS2	2,4-DDT		2	1.99	ug/L	99	(70-130)	20	4.1
MBLK	2,4-DDT			<0.1	ug/L				
MRL_CHK	2,4-DDT		0.1	0.127	ug/L	127	(50-150)		
MS_202202080473	2,4-DDT	ND	2	1.85	ug/L	93	(70-130)		
DUP_202202090876	2,4-Dinitrotoluene	ND		ND	ug/L		(0-20)		
LCS1	2,4-Dinitrotoluene		2	2.52	ug/L	126	(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	2,4-Dinitrotoluene		2	2.50	ug/L	125	(70-130)	20	0.80
MBLK	2,4-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.151	ug/L	**151**	(50-150)		
MS_202202080473	2,4-Dinitrotoluene	ND	2	2.42	ug/L	121	(70-130)		
DUP_202202090876	2,6-Dinitrotoluene	ND		ND	ug/L		(0-20)		
LCS1	2,6-Dinitrotoluene		2	2.50	ug/L	125	(70-130)		
LCS2	2,6-Dinitrotoluene		2	2.53	ug/L	127	(70-130)	20	1.2
MBLK	2,6-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.119	ug/L	119	(50-150)		
MS_202202080473	2,6-Dinitrotoluene	ND	2	2.47	ug/L	124	(70-130)		
DUP_202202090876	2-methylnaphthalene			ND	ug/L		(0-20)		
LCS1	2-methylnaphthalene		2	1.92	ug/L	96	(70-130)		
LCS2	2-methylnaphthalene		2	1.93	ug/L	97	(70-130)	20	0.52
MBLK	2-methylnaphthalene			<0.1	ug/L				
MRL_CHK	2-methylnaphthalene		0.1	0.106	ug/L	106	(50-150)		
MS_202202080473	2-methylnaphthalene	ND	2	1.96	ug/L	98	(70-130)		
DUP_202202090876	4,4-DDD	ND		ND	ug/L		(0-20)		
LCS1	4,4-DDD		2	2.01	ug/L	100	(70-130)		
LCS2	4,4-DDD		2	2.04	ug/L	102	(70-130)	20	1.5
MBLK	4,4-DDD			<0.1	ug/L				
MRL_CHK	4,4-DDD		0.1	0.106	ug/L	106	(50-150)		
MS_202202080473	4,4-DDD	ND	2	1.96	ug/L	98	(70-130)		
DUP_202202090876	4,4-DDE	ND		ND	ug/L		(0-20)		
LCS1	4,4-DDE		2	2.05	ug/L	103	(70-130)		
LCS2	4,4-DDE		2	2.13	ug/L	107	(70-130)	20	3.8
MBLK	4,4-DDE			<0.1	ug/L				
MRL_CHK	4,4-DDE		0.1	0.0940	ug/L	94	(50-150)		
MS_202202080473	4,4-DDE	ND	2	2.01	ug/L	100	(70-130)		
DUP_202202090876	4,4-DDT	ND		ND	ug/L		(0-20)		
LCS1	4,4-DDT		2	2.03	ug/L	101	(70-130)		
LCS2	4,4-DDT		2	2.07	ug/L	103	(70-130)	20	2.0
MBLK	4,4-DDT			<0.1	ug/L				
MRL_CHK	4,4-DDT		0.1	0.126	ug/L	126	(50-150)		
MS_202202080473	4,4-DDT	ND	2	1.91	ug/L	96	(70-130)		
DUP_202202090876	Acenaphthene	ND		ND	ug/L		(0-20)		
LCS1	Acenaphthene		2	1.92	ug/L	96	(70-130)		
LCS2	Acenaphthene		2	1.92	ug/L	96	(70-130)	20	0.52
MBLK	Acenaphthene			<0.1	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Acenaphthene		0.1	0.0970	ug/L	97	(50-150)		
MS_202202080473	Acenaphthene	ND	2	1.94	ug/L	97	(70-130)		
DUP_202202090876	Acenaphthene-d10 (I)			94.1	%	94	(50-150)		
LCS1	Acenaphthene-d10 (I)		5	97.9	%	98	(50-150)		
LCS2	Acenaphthene-d10 (I)		5	95.5	%	96	(50-150)		
MBLK	Acenaphthene-d10 (I)			93.8	%	94	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)		5	98.9	%	99	(50-150)		
MS_202202080473	Acenaphthene-d10 (I)		5	96.2	%	96	(50-150)		
DUP_202202090876	Acenaphthylene	ND		ND	ug/L		(0-20)		
LCS1	Acenaphthylene		2	1.88	ug/L	94	(70-130)		
LCS2	Acenaphthylene		2	1.84	ug/L	92	(70-130)	20	2.1
MBLK	Acenaphthylene			<0.1	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0730	ug/L	73	(50-150)		
MS_202202080473	Acenaphthylene	ND	2	1.63	ug/L	82	(70-130)		
DUP_202202090876	Acetochlor	ND		ND	ug/L		(0-20)		
LCS1	Acetochlor		2	2.04	ug/L	102	(70-130)		
LCS2	Acetochlor		2	2.09	ug/L	105	(70-130)	20	2.4
MBLK	Acetochlor			<0.1	ug/L				
MRL_CHK	Acetochlor		0.05	0.0420	ug/L	84	(50-150)		
MS_202202080473	Acetochlor	ND	2	1.94	ug/L	97	(70-130)		
DUP_202202090876	Alachlor	ND		ND	ug/L		(0-20)		
LCS1	Alachlor		2	2.08	ug/L	104	(70-130)		
LCS2	Alachlor		2	2.09	ug/L	105	(70-130)	20	0.48
MBLK	Alachlor			<0.05	ug/L				
MRL_CHK	Alachlor		0.05	0.0560	ug/L	112	(50-150)		
MS_202202080473	Alachlor	ND	2	2.00	ug/L	100	(70-130)		
DUP_202202090876	Alpha-BHC	ND		ND	ug/L		(0-20)		
LCS1	Alpha-BHC		2	1.86	ug/L	93	(70-130)		
LCS2	Alpha-BHC		2	1.67	ug/L	84	(70-130)	20	11
MBLK	Alpha-BHC			<0.1	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.113	ug/L	113	(50-150)		
MS_202202080473	Alpha-BHC	ND	2	1.88	ug/L	94	(70-130)		
DUP_202202090876	alpha-Chlordane	ND		ND	ug/L		(0-20)		
LCS1	alpha-Chlordane		2	2.24	ug/L	112	(70-130)		
LCS2	alpha-Chlordane		2	2.24	ug/L	112	(70-130)	20	0.45
MBLK	alpha-Chlordane			<0.05	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0520	ug/L	104	(50-150)		
MS_202202080473	alpha-Chlordane	ND	2	2.17	ug/L	108	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
DUP_202202090876	Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Anthracene		2	1.93	ug/L	96	(70-130)		
LCS2	Anthracene		2	1.91	ug/L	96	(70-130)	20	1.0
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0190	ug/L	95	(50-150)		
MS_202202080473	Anthracene	ND	2	1.84	ug/L	92	(70-130)		
DUP_202202090876	Atrazine	ND		ND	ug/L		(0-20)		
LCS1	Atrazine		2	1.89	ug/L	95	(70-130)		
LCS2	Atrazine		2	1.90	ug/L	95	(70-130)	20	0.53
MBLK	Atrazine			<0.05	ug/L				
MRL_CHK	Atrazine		0.05	0.0500	ug/L	100	(50-150)		
MS_202202080473	Atrazine	ND	2	1.72	ug/L	86	(70-130)		
DUP_202202090876	Benz(a)Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Benz(a)Anthracene		2	1.94	ug/L	97	(70-130)		
LCS2	Benz(a)Anthracene		2	1.91	ug/L	96	(70-130)	20	1.6
MBLK	Benz(a)Anthracene			<0.05	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0520	ug/L	104	(50-150)		
MS_202202080473	Benz(a)Anthracene	ND	2	1.84	ug/L	92	(70-130)		
DUP_202202090876	Benzo(a)pyrene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(a)pyrene		2	1.85	ug/L	93	(70-130)		
LCS2	Benzo(a)pyrene		2	1.92	ug/L	96	(70-130)	20	3.7
MBLK	Benzo(a)pyrene			<0.02	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0190	ug/L	95	(50-150)		
MS_202202080473	Benzo(a)pyrene	ND	2	1.83	ug/L	92	(70-130)		
DUP_202202090876	Benzo(b)Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(b)Fluoranthene		2	1.95	ug/L	98	(70-130)		
LCS2	Benzo(b)Fluoranthene		2	2.00	ug/L	100	(70-130)	20	2.5
MBLK	Benzo(b)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0220	ug/L	110	(50-150)		
MS_202202080473	Benzo(b)Fluoranthene	ND	2	1.98	ug/L	99	(70-130)		
DUP_202202090876	Benzo(g,h,i)Perylene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(g,h,i)Perylene		2	1.91	ug/L	96	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2	1.99	ug/L	100	(70-130)	20	4.1
MBLK	Benzo(g,h,i)Perylene			<0.05	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0390	ug/L	78	(50-150)		
MS_202202080473	Benzo(g,h,i)Perylene	ND	2	1.83	ug/L	91	(70-130)		
DUP_202202090876	Benzo(k)Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Benzo(k)Fluoranthene		2	1.91	ug/L	96	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Benzo(k)Fluoranthene		2	2.09	ug/L	105	(70-130)	20	9.0
MBLK	Benzo(k)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0210	ug/L	105	(50-150)		
MS_202202080473	Benzo(k)Fluoranthene	ND	2	2.02	ug/L	101	(70-130)		
DUP_202202090876	Beta-BHC	ND		ND	ug/L		(0-20)		
LCS1	Beta-BHC		2	2.07	ug/L	104	(70-130)		
LCS2	Beta-BHC		2	2.05	ug/L	102	(70-130)	20	0.97
MBLK	Beta-BHC			<0.1	ug/L				
MRL_CHK	Beta-BHC		0.1	0.105	ug/L	105	(50-150)		
MS_202202080473	Beta-BHC	ND	2	2.03	ug/L	102	(70-130)		
DUP_202202090876	Bromacil	ND		ND	ug/L		(0-20)		
LCS1	Bromacil		2	2.67	ug/L	**133**	(70-130)		
LCS2	Bromacil		2	2.73	ug/L	**136**	(70-130)	20	2.2
MBLK	Bromacil			<0.2	ug/L				
MRL_CHK	Bromacil		0.1	0.130	ug/L	130	(50-150)		
MS_202202080473	Bromacil	ND	2	2.66	ug/L	**133**	(70-130)		
DUP_202202090876	Butachlor	ND		ND	ug/L		(0-20)		
LCS1	Butachlor		2	2.30	ug/L	115	(70-130)		
LCS2	Butachlor		2	2.37	ug/L	119	(70-130)	20	3.0
MBLK	Butachlor			<0.05	ug/L				
MRL_CHK	Butachlor		0.05	0.0550	ug/L	110	(50-150)		
MS_202202080473	Butachlor	ND	2	2.17	ug/L	108	(70-130)		
DUP_202202090876	Butylbenzylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Butylbenzylphthalate		2	2.29	ug/L	114	(70-130)		
LCS2	Butylbenzylphthalate		2	2.34	ug/L	117	(70-130)	20	2.2
MBLK	Butylbenzylphthalate			<0.5	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.190	ug/L	127	(50-150)		
MS_202202080473	Butylbenzylphthalate	ND	2	2.22	ug/L	111	(70-130)		
DUP_202202090876	Caffeine by method 525mod	ND		ND	ug/L		(0-20)		
LCS1	Caffeine by method 525mod		2	1.69	ug/L	84	(45-137)		
LCS2	Caffeine by method 525mod		2	1.81	ug/L	90	(45-137)	20	6.9
MBLK	Caffeine by method 525mod			<0.05	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0510	ug/L	102	(50-150)		
MS_202202080473	Caffeine by method 525mod	ND	2	1.72	ug/L	86	(46-144)		
DUP_202202090876	Chlorobenzilate	ND		ND	ug/L		(0-20)		
LCS1	Chlorobenzilate		2	2.36	ug/L	118	(70-130)		
LCS2	Chlorobenzilate		2	2.42	ug/L	121	(70-130)	20	2.5
MBLK	Chlorobenzilate			<0.1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Chlorobenzilate		0.1	0.110	ug/L	110	(50-150)		
MS_202202080473	Chlorobenzilate	ND	2	2.29	ug/L	115	(70-130)		
DUP_202202090876	Chloroneb	ND		ND	ug/L		(0-20)		
LCS1	Chloroneb		2	2.11	ug/L	105	(70-130)		
LCS2	Chloroneb		2	2.06	ug/L	103	(70-130)	20	2.4
MBLK	Chloroneb			<0.1	ug/L				
MRL_CHK	Chloroneb		0.1	0.113	ug/L	113	(50-150)		
MS_202202080473	Chloroneb	ND	2	2.07	ug/L	104	(70-130)		
DUP_202202090876	Chlorothalonil(Draconil,Bravo)	ND		ND	ug/L		(0-20)		
LCS1	Chlorothalonil(Draconil,Bravo)		2	2.20	ug/L	110	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2	2.23	ug/L	111	(70-130)	20	1.4
MBLK	Chlorothalonil(Draconil,Bravo)			<0.1	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.1	0.101	ug/L	101	(50-150)		
MS_202202080473	Chlorothalonil(Draconil,Bravo)	ND	2	2.16	ug/L	108	(70-130)		
DUP_202202090876	Chlorpyrifos (Dursban)	ND		ND	ug/L		(0-20)		
LCS1	Chlorpyrifos (Dursban)		2	1.84	ug/L	92	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2	1.87	ug/L	94	(70-130)	20	1.6
MBLK	Chlorpyrifos (Dursban)			<0.05	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0500	ug/L	100	(50-150)		
MS_202202080473	Chlorpyrifos (Dursban)	ND	2	1.86	ug/L	93	(70-130)		
DUP_202202090876	Chrysene	ND		ND	ug/L		(0-20)		
LCS1	Chrysene		2	2.00	ug/L	100	(70-130)		
LCS2	Chrysene		2	2.05	ug/L	102	(70-130)	20	2.5
MBLK	Chrysene			<0.02	ug/L				
MRL_CHK	Chrysene		0.02	0.0240	ug/L	120	(50-150)		
MS_202202080473	Chrysene	ND	2	2.03	ug/L	102	(70-130)		
DUP_202202090876	Chrysene-d12 (I)			97.0	%	97	(50-150)		
LCS1	Chrysene-d12 (I)		5	94.9	%	95	(50-150)		
LCS2	Chrysene-d12 (I)		5	86.4	%	86	(50-150)		
MBLK	Chrysene-d12 (I)			90.8	%	91	(50-150)		
MRL_CHK	Chrysene-d12 (I)		5	100	%	100	(50-150)		
MS_202202080473	Chrysene-d12 (I)		5	84.5	%	85	(50-150)		
DUP_202202090876	Delta-BHC	ND		ND	ug/L		(0-20)		
LCS1	Delta-BHC		2	1.94	ug/L	97	(70-130)		
LCS2	Delta-BHC		2	1.97	ug/L	99	(70-130)	20	1.5
MBLK	Delta-BHC			<0.1	ug/L				
MRL_CHK	Delta-BHC		0.1	0.0950	ug/L	95	(50-150)		
MS_202202080473	Delta-BHC	ND	2	1.94	ug/L	97	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
DUP_202202090876	Di-(2-Ethylhexyl)adipate	ND		ND	ug/L		(0-20)		
LCS1	Di-(2-Ethylhexyl)adipate		2	1.92	ug/L	96	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	1.99	ug/L	100	(70-130)	20	3.6
MBLK	Di-(2-Ethylhexyl)adipate			<0.6	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.331	ug/L	110	(50-150)		
MS_202202080473	Di-(2-Ethylhexyl)adipate	ND	2	1.82	ug/L	91	(70-130)		
DUP_202202090876	Di(2-Ethylhexyl)phthalate	ND		ND	ug/L		(0-20)		
LCS1	Di(2-Ethylhexyl)phthalate		2	1.87	ug/L	93	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2	2.08	ug/L	104	(70-130)	20	11
MBLK	Di(2-Ethylhexyl)phthalate			<0.6	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.686	ug/L	114	(50-150)		
MS_202202080473	Di(2-Ethylhexyl)phthalate	ND	2	1.90	ug/L	95	(70-130)		
DUP_202202090876	Diazinon (Qualitative)	ND		ND	ug/L		(0-20)		
LCS1	Diazinon (Qualitative)		2	1.98	ug/L	99	(15-132)		
LCS2	Diazinon (Qualitative)		2	1.94	ug/L	97	(15-132)	20	2.0
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.100	ug/L	100	(15-132)		
MS_202202080473	Diazinon (Qualitative)	ND	2	1.80	ug/L	90	(15-132)		
DUP_202202090876	Dibenz(a,h)Anthracene	ND		ND	ug/L		(0-20)		
LCS1	Dibenz(a,h)Anthracene		2	1.88	ug/L	94	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2	2.01	ug/L	101	(70-130)	20	6.7
MBLK	Dibenz(a,h)Anthracene			<0.05	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0420	ug/L	84	(50-150)		
MS_202202080473	Dibenz(a,h)Anthracene	ND	2	1.97	ug/L	98	(70-130)		
DUP_202202090876	Dichlorvos (DDVP)	ND		ND	ug/L		(0-20)		
LCS1	Dichlorvos (DDVP)		2	2.08	ug/L	104	(70-130)		
LCS2	Dichlorvos (DDVP)		2	2.03	ug/L	101	(70-130)	20	2.4
MBLK	Dichlorvos (DDVP)			<0.05	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0500	ug/L	100	(50-150)		
MS_202202080473	Dichlorvos (DDVP)	ND	2	2.03	ug/L	102	(70-130)		
DUP_202202090876	Dieldrin	ND		ND	ug/L		(0-20)		
LCS1	Dieldrin		2	1.86	ug/L	93	(70-130)		
LCS2	Dieldrin		2	1.88	ug/L	94	(70-130)	20	1.1
MBLK	Dieldrin			<0.2	ug/L				
MRL_CHK	Dieldrin		0.1	0.115	ug/L	115	(50-150)		
MS_202202080473	Dieldrin	ND	2	1.78	ug/L	89	(70-130)		
DUP_202202090876	Diethylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Diethylphthalate		2	2.03	ug/L	101	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Report: 987883
Project: INTERA
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Diethylphthalate		2	1.99	ug/L	100	(70-130)	20	2.0
MBLK	Diethylphthalate			<0.5	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.169	ug/L	113	(50-150)		
MS_202202080473	Diethylphthalate	ND	2	1.98	ug/L	99	(70-130)		
DUP_202202090876	Dimethoate	ND		ND	ug/L		(0-20)		
LCS1	Dimethoate		2	1.85	ug/L	93	(35-100)		
LCS2	Dimethoate		2	1.85	ug/L	93	(35-100)	20	0.0
MBLK	Dimethoate			<0.1	ug/L				
MRL_CHK	Dimethoate		0.1	0.0830	ug/L	83	(35-100)		
MS_202202080473	Dimethoate	ND	2	1.72	ug/L	86	(34-111)		
DUP_202202090876	Dimethylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Dimethylphthalate		2	2.08	ug/L	104	(70-130)		
LCS2	Dimethylphthalate		2	2.05	ug/L	103	(70-130)	20	1.5
MBLK	Dimethylphthalate			<0.5	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.304	ug/L	101	(50-150)		
MS_202202080473	Dimethylphthalate	ND	2	2.06	ug/L	103	(70-130)		
DUP_202202090876	Di-n-Butylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Di-n-Butylphthalate		4	3.71	ug/L	93	(70-130)		
LCS2	Di-n-Butylphthalate		4	3.77	ug/L	94	(70-130)	20	1.6
MBLK	Di-n-Butylphthalate			<1	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.366	ug/L	122	(50-150)		
MS_202202080473	Di-n-Butylphthalate	ND	4	3.63	ug/L	91	(70-130)		
DUP_202202090876	Di-N-octylphthalate	ND		ND	ug/L		(0-20)		
LCS1	Di-N-octylphthalate		2	1.63	ug/L	81	(70-130)		
LCS2	Di-N-octylphthalate		2	1.78	ug/L	89	(70-130)	20	8.8
MBLK	Di-N-octylphthalate			<0.1	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.0920	ug/L	92	(50-150)		
MS_202202080473	Di-N-octylphthalate	ND	2	1.57	ug/L	79	(70-130)		
DUP_202202090876	Endosulfan I (Alpha)	ND		ND	ug/L		(0-20)		
LCS1	Endosulfan I (Alpha)		2	1.83	ug/L	92	(70-130)		
LCS2	Endosulfan I (Alpha)		2	1.85	ug/L	93	(70-130)	20	1.1
MBLK	Endosulfan I (Alpha)			<0.1	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0850	ug/L	85	(50-150)		
MS_202202080473	Endosulfan I (Alpha)	ND	2	1.79	ug/L	89	(70-130)		
DUP_202202090876	Endosulfan II (Beta)	ND		ND	ug/L		(0-20)		
LCS1	Endosulfan II (Beta)		2	1.98	ug/L	99	(70-130)		
LCS2	Endosulfan II (Beta)		2	2.01	ug/L	101	(70-130)	20	1.5
MBLK	Endosulfan II (Beta)			<0.1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Endosulfan II (Beta)		0.1	0.117	ug/L	117	(50-150)		
MS_202202080473	Endosulfan II (Beta)	ND	2	2.00	ug/L	100	(70-130)		
DUP_202202090876	Endosulfan Sulfate	ND		ND	ug/L		(0-20)		
LCS1	Endosulfan Sulfate		2	1.94	ug/L	97	(70-130)		
LCS2	Endosulfan Sulfate		2	1.99	ug/L	100	(70-130)	20	2.5
MBLK	Endosulfan Sulfate			<0.1	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.100	ug/L	100	(50-150)		
MS_202202080473	Endosulfan Sulfate	ND	2	1.85	ug/L	93	(70-130)		
DUP_202202090876	Endrin	ND		ND	ug/L		(0-20)		
LCS1	Endrin		2	2.31	ug/L	116	(70-130)		
LCS2	Endrin		2	2.30	ug/L	115	(70-130)	20	0.43
MBLK	Endrin			<0.1	ug/L				
MRL_CHK	Endrin		0.1	0.119	ug/L	119	(50-150)		
MS_202202080473	Endrin	ND	2	1.96	ug/L	98	(70-130)		
DUP_202202090876	Endrin Aldehyde	ND		ND	ug/L		(0-20)		
LCS1	Endrin Aldehyde		2	2.22	ug/L	111	(70-130)		
LCS2	Endrin Aldehyde		2	2.34	ug/L	117	(70-130)	20	5.3
MBLK	Endrin Aldehyde			<0.1	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0800	ug/L	80	(50-150)		
MS_202202080473	Endrin Aldehyde	ND	2	1.95	ug/L	98	(70-130)		
DUP_202202090876	EPTC	ND		ND	ug/L		(0-20)		
LCS1	EPTC		2	1.90	ug/L	95	(70-130)		
LCS2	EPTC		2	1.88	ug/L	94	(70-130)	20	1.1
MBLK	EPTC			<0.1	ug/L				
MRL_CHK	EPTC		0.1	0.0930	ug/L	93	(50-150)		
MS_202202080473	EPTC	ND	2	1.91	ug/L	95	(70-130)		
DUP_202202090876	Fluoranthene	ND		ND	ug/L		(0-20)		
LCS1	Fluoranthene		2	2.05	ug/L	102	(70-130)		
LCS2	Fluoranthene		2	2.05	ug/L	102	(70-130)	20	0.0
MBLK	Fluoranthene			<0.1	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0540	ug/L	108	(50-150)		
MS_202202080473	Fluoranthene	ND	2	2.00	ug/L	100	(70-130)		
DUP_202202090876	Fluorene	ND		ND	ug/L		(0-20)		
LCS1	Fluorene		2	2.04	ug/L	102	(70-130)		
LCS2	Fluorene		2	2.01	ug/L	100	(70-130)	20	1.5
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0510	ug/L	102	(50-150)		
MS_202202080473	Fluorene	ND	2	2.01	ug/L	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
DUP_202202090876	gamma-Chlordane	ND		ND	ug/L		(0-20)		
LCS1	gamma-Chlordane		2	2.22	ug/L	111	(70-130)		
LCS2	gamma-Chlordane		2	2.27	ug/L	113	(70-130)	20	2.2
MBLK	gamma-Chlordane			<0.05	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0500	ug/L	100	(50-150)		
MS_202202080473	gamma-Chlordane	ND	2	2.17	ug/L	109	(70-130)		
DUP_202202090876	Heptachlor	ND		ND	ug/L		(0-20)		
LCS1	Heptachlor		2	2.01	ug/L	101	(70-130)		
LCS2	Heptachlor		2	2.02	ug/L	101	(70-130)	20	0.50
MBLK	Heptachlor			<0.04	ug/L				
MRL_CHK	Heptachlor		0.04	0.0410	ug/L	102	(50-150)		
MS_202202080473	Heptachlor	ND	2	1.95	ug/L	97	(70-130)		
DUP_202202090876	Heptachlor Epoxide (isomer B)	ND		ND	ug/L		(0-20)		
LCS1	Heptachlor Epoxide (isomer B)		2	2.33	ug/L	116	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2	2.39	ug/L	120	(70-130)	20	2.5
MBLK	Heptachlor Epoxide (isomer B)			<0.05	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0510	ug/L	102	(50-150)		
MS_202202080473	Heptachlor Epoxide (isomer B)	ND	2	2.29	ug/L	114	(70-130)		
DUP_202202090876	Hexachlorobenzene	ND		ND	ug/L		(0-20)		
LCS1	Hexachlorobenzene		2	1.96	ug/L	98	(70-130)		
LCS2	Hexachlorobenzene		2	1.91	ug/L	96	(70-130)	20	2.6
MBLK	Hexachlorobenzene			<0.05	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0610	ug/L	122	(50-150)		
MS_202202080473	Hexachlorobenzene	ND	2	1.84	ug/L	92	(70-130)		
DUP_202202090876	Hexachlorocyclopentadiene	ND		ND	ug/L		(0-20)		
LCS1	Hexachlorocyclopentadiene		2	1.68	ug/L	84	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	1.72	ug/L	86	(70-130)	20	2.4
MBLK	Hexachlorocyclopentadiene			<0.05	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0410	ug/L	82	(50-150)		
MS_202202080473	Hexachlorocyclopentadiene	ND	2	1.78	ug/L	89	(70-130)		
DUP_202202090876	Indeno(1,2,3,c,d)Pyrene	ND		ND	ug/L		(0-20)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2	1.94	ug/L	97	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2	2.04	ug/L	102	(70-130)	20	5.0
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.05	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0410	ug/L	82	(50-150)		
MS_202202080473	Indeno(1,2,3,c,d)Pyrene	ND	2	1.96	ug/L	98	(70-130)		
DUP_202202090876	Isophorone	ND		ND	ug/L		(0-20)		
LCS1	Isophorone		2	1.91	ug/L	96	(70-130)		

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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%
LCS2	Isophorone		2	1.89	ug/L	95	(70-130)	20	1.1
MBLK	Isophorone			<0.5	ug/L				
MRL_CHK	Isophorone		0.1	0.0900	ug/L	90	(50-150)		
MS_202202080473	Isophorone	ND	2	1.89	ug/L	95	(70-130)		
DUP_202202090876	Lindane	ND		ND	ug/L		(0-20)		
LCS1	Lindane		2	2.01	ug/L	101	(70-130)		
LCS2	Lindane		2	1.93	ug/L	97	(70-130)	20	4.1
MBLK	Lindane			<0.04	ug/L				
MRL_CHK	Lindane		0.04	0.0400	ug/L	100	(50-150)		
MS_202202080473	Lindane	ND	2	1.98	ug/L	99	(70-130)		
DUP_202202090876	Malathion	ND		ND	ug/L		(0-20)		
LCS1	Malathion		2	2.33	ug/L	117	(70-130)		
LCS2	Malathion		2	2.36	ug/L	118	(70-130)	20	1.3
MBLK	Malathion			<0.1	ug/L				
MRL_CHK	Malathion		0.1	0.106	ug/L	106	(50-150)		
MS_202202080473	Malathion	ND	2	2.29	ug/L	115	(70-130)		
DUP_202202090876	Methoxychlor	ND		ND	ug/L		(0-20)		
LCS1	Methoxychlor		2	2.55	ug/L	127	(70-130)		
LCS2	Methoxychlor		2	2.72	ug/L	**136**	(70-130)	20	6.8
MBLK	Methoxychlor			<0.1	ug/L				
MRL_CHK	Methoxychlor		0.1	0.121	ug/L	121	(50-150)		
MS_202202080473	Methoxychlor	ND	2	2.64	ug/L	**132**	(70-130)		
DUP_202202090876	Metolachlor	ND		ND	ug/L		(0-20)		
LCS1	Metolachlor		2	2.05	ug/L	103	(70-130)		
LCS2	Metolachlor		2	2.06	ug/L	103	(70-130)	20	0.49
MBLK	Metolachlor			<0.05	ug/L				
MRL_CHK	Metolachlor		0.05	0.0520	ug/L	104	(50-150)		
MS_202202080473	Metolachlor	ND	2	2.06	ug/L	103	(70-130)		
DUP_202202090876	Metribuzin	ND		ND	ug/L		(0-20)		
LCS1	Metribuzin		2	2.02	ug/L	101	(70-130)		
LCS2	Metribuzin		2	2.14	ug/L	107	(70-130)	20	5.8
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0520	ug/L	104	(50-150)		
MS_202202080473	Metribuzin	ND	2	1.92	ug/L	96	(70-130)		
DUP_202202090876	Molinate	ND		ND	ug/L		(0-20)		
LCS1	Molinate		2	2.00	ug/L	100	(70-130)		
LCS2	Molinate		2	1.95	ug/L	97	(70-130)	20	2.5
MBLK	Molinate			<0.1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Molinate		0.1	0.0990	ug/L	99	(50-150)		
MS_202202080473	Molinate	ND	2	1.96	ug/L	98	(70-130)		
DUP_202202090876	Naphthalene	ND		ND	ug/L		(0-20)		
LCS1	Naphthalene		2	1.73	ug/L	87	(70-130)		
LCS2	Naphthalene		2	1.77	ug/L	89	(70-130)	20	2.3
MBLK	Naphthalene			<0.3	ug/L				
MRL_CHK	Naphthalene		0.1	0.0940	ug/L	94	(50-150)		
MS_202202080473	Naphthalene	ND	2	1.80	ug/L	90	(70-130)		
DUP_202202090876	Parathion	ND		ND	ug/L		(0-20)		
LCS1	Parathion		2	2.62	ug/L	**131**	(70-130)		
LCS2	Parathion		2	2.67	ug/L	**133**	(70-130)	20	1.9
MBLK	Parathion			<0.1	ug/L				
MRL_CHK	Parathion		0.1	0.148	ug/L	148	(50-150)		
MS_202202080473	Parathion	ND	2	2.56	ug/L	128	(70-130)		
DUP_202202090876	Pendimethalin	ND		ND	ug/L		(0-20)		
LCS1	Pendimethalin		2	2.20	ug/L	110	(70-130)		
LCS2	Pendimethalin		2	2.22	ug/L	111	(70-130)	20	1.4
MBLK	Pendimethalin			<0.1	ug/L				
MRL_CHK	Pendimethalin		0.1	0.120	ug/L	120	(50-150)		
MS_202202080473	Pendimethalin	ND	2	2.14	ug/L	107	(70-130)		
DUP_202202090876	Permethrin (mixed isomers)	ND		ND	ug/L		(0-20)		
LCS1	Permethrin (mixed isomers)		4	3.73	ug/L	93	(70-130)		
LCS2	Permethrin (mixed isomers)		4	4.04	ug/L	101	(70-130)	20	8.0
MBLK	Permethrin (mixed isomers)			<0.2	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.2	0.206	ug/L	103	(50-150)		
MS_202202080473	Permethrin (mixed isomers)	ND	4	3.92	ug/L	98	(70-130)		
DUP_202202090876	Perylene-d12 (S)			88.6	%	89	(70-130)		
LCS1	Perylene-d12 (S)		5	92.8	%	93	(70-130)		
LCS2	Perylene-d12 (S)		5	94.0	%	94	(70-130)		
MBLK	Perylene-d12 (S)			84.4	%	84	(70-130)		
MRL_CHK	Perylene-d12 (S)		5	79.0	%	79	(70-130)		
MS_202202080473	Perylene-d12 (S)		5	93.0	%	93	(70-130)		
DUP_202202090876	Phenanthrene	ND		ND	ug/L		(0-20)		
LCS1	Phenanthrene		2	1.94	ug/L	97	(70-130)		
LCS2	Phenanthrene		2	1.96	ug/L	98	(70-130)	20	1.0
MBLK	Phenanthrene			<0.04	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0220	ug/L	110	(50-150)		
MS_202202080473	Phenanthrene	ND	2	1.90	ug/L	95	(70-130)		

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Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
DUP_202202090876	Phenanthrene-d10 (I)			98.8	%	99	(50-150)		
LCS1	Phenanthrene-d10 (I)		5	101	%	101	(50-150)		
LCS2	Phenanthrene-d10 (I)		5	96.3	%	96	(50-150)		
MBLK	Phenanthrene-d10 (I)			98.0	%	98	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)		5	103	%	103	(50-150)		
MS_202202080473	Phenanthrene-d10 (I)		5	97.6	%	98	(50-150)		
DUP_202202090876	Propachlor	ND		ND	ug/L		(0-20)		
LCS1	Propachlor		2	2.08	ug/L	104	(70-130)		
LCS2	Propachlor		2	2.01	ug/L	100	(70-130)	20	3.4
MBLK	Propachlor			<0.05	ug/L				
MRL_CHK	Propachlor		0.05	0.0550	ug/L	110	(50-150)		
MS_202202080473	Propachlor	ND	2	2.03	ug/L	102	(70-130)		
DUP_202202090876	Pyrene	ND		ND	ug/L		(0-20)		
LCS1	Pyrene		2	1.95	ug/L	98	(70-130)		
LCS2	Pyrene		2	1.97	ug/L	99	(70-130)	20	1.0
MBLK	Pyrene			<0.05	ug/L				
MRL_CHK	Pyrene		0.05	0.0560	ug/L	112	(50-150)		
MS_202202080473	Pyrene	ND	2	1.94	ug/L	97	(70-130)		
DUP_202202090876	Simazine	ND		ND	ug/L		(0-20)		
LCS1	Simazine		2	2.14	ug/L	107	(70-130)		
LCS2	Simazine		2	2.14	ug/L	107	(70-130)	20	0.0
MBLK	Simazine			<0.05	ug/L				
MRL_CHK	Simazine		0.05	0.0630	ug/L	126	(50-150)		
MS_202202080473	Simazine	ND	2	1.94	ug/L	97	(70-130)		
DUP_202202090876	Terbacil	ND		ND	ug/L		(0-20)		
LCS1	Terbacil		2	2.30	ug/L	115	(70-130)		
LCS2	Terbacil		2	2.38	ug/L	119	(70-130)	20	3.4
MBLK	Terbacil			<0.1	ug/L				
MRL_CHK	Terbacil		0.1	0.130	ug/L	130	(50-150)		
MS_202202080473	Terbacil	ND	2	2.04	ug/L	102	(70-130)		
DUP_202202090876	Terbuthylazine	ND		ND	ug/L		(0-20)		
LCS1	Terbuthylazine		2	2.08	ug/L	104	(70-130)		
LCS2	Terbuthylazine		2	2.04	ug/L	102	(70-130)	20	1.9
MBLK	Terbuthylazine			<0.1	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.109	ug/L	109	(50-150)		
MS_202202080473	Terbuthylazine	ND	2	1.82	ug/L	91	(70-130)		
DUP_202202090876	Thiobencarb	ND		ND	ug/L		(0-20)		
LCS1	Thiobencarb		2	1.96	ug/L	98	(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).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Thiobencarb		2	2.06	ug/L	103	(70-130)	20	5.0
MBLK	Thiobencarb			<0.2	ug/L				
MRL_CHK	Thiobencarb		0.1	0.112	ug/L	112	(50-150)		
MS_202202080473	Thiobencarb	ND	2	1.90	ug/L	95	(70-130)		
DUP_202202090876	trans-Nonachlor	ND		ND	ug/L		(0-20)		
LCS1	trans-Nonachlor		2	2.06	ug/L	103	(70-130)		
LCS2	trans-Nonachlor		2	2.06	ug/L	103	(70-130)	20	0.0
MBLK	trans-Nonachlor			<0.05	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0530	ug/L	106	(50-150)		
MS_202202080473	trans-Nonachlor	ND	2	2.00	ug/L	100	(70-130)		
DUP_202202090876	Trifluralin	ND		ND	ug/L		(0-20)		
LCS1	Trifluralin		2	2.16	ug/L	108	(70-130)		
LCS2	Trifluralin		2	2.09	ug/L	104	(70-130)	20	3.3
MBLK	Trifluralin			<0.1	ug/L				
MRL_CHK	Trifluralin		0.1	0.0920	ug/L	92	(50-150)		
MS_202202080473	Trifluralin	ND	2	2.07	ug/L	103	(70-130)		
DUP_202202090876	Triphenylphosphate (S)			110	%	110	(70-130)		
LCS1	Triphenylphosphate (S)		5	104	%	104	(70-130)		
LCS2	Triphenylphosphate (S)		5	108	%	108	(70-130)		
MBLK	Triphenylphosphate (S)			105	%	105	(70-130)		
MRL_CHK	Triphenylphosphate (S)		5	105	%	105	(70-130)		
MS_202202080473	Triphenylphosphate (S)		5	102	%	102	(70-130)		

EPA Method 504.1 by EPA 504.1

Analytical Batch: 1389527 **Analysis Date: 02/24/2022**

CCCH	1,2,3-Trichloropropane		1.3	1.31	ug/L	104	(70-130)		
CCCM2	1,2,3-Trichloropropane		0.25	0.270	ug/L	108	(70-130)		
DUP_202202161056	1,2,3-Trichloropropane	ND		ND	ug/L		(0-20)		
LCS2	1,2,3-Trichloropropane		0.2	0.213	ug/L	107	(70-130)		
MBLK	1,2,3-Trichloropropane			<0.0133	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.05	0.0547	ug/L	109	(60-140)		
MRLLW	1,2,3-Trichloropropane		0.04	0.0438	ug/L	110	(60-140)		
MS_202202150848	1,2,3-Trichloropropane	0.53	1.3	1.82	ug/L	103	(65-135)		
CCCH	1,2-Dibromo-3-chloropropane		0.25	0.260	ug/L	104	(70-130)		
CCCM2	1,2-Dibromo-3-chloropropane		0.05	0.0539	ug/L	108	(70-130)		
DUP_202202161056	1,2-Dibromo-3-chloropropane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromo-3-chloropropane		0.2	0.214	ug/L	107	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.002	ug/L				

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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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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.0108	ug/L	108	(60-140)		
MS_202202150848	1,2-Dibromo-3-chloropropane	ND	0.25	0.265	ug/L	102	(65-135)		
CCCH	1,2-Dibromoethane		0.25	0.238	ug/L	95	(70-130)		
CCCM2	1,2-Dibromoethane		0.05	0.0497	ug/L	99	(70-130)		
DUP_202202161056	1,2-Dibromoethane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromoethane		0.2	0.186	ug/L	93	(70-130)		
MBLK	1,2-Dibromoethane			<0.003	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.00920	ug/L	92	(60-140)		
MS_202202150848	1,2-Dibromoethane	0.018	0.25	0.272	ug/L	101	(65-135)		
CCCH	1,2-Dibromopropane (S)		100	104	%	104	(60-140)		
CCCM2	1,2-Dibromopropane (S)		100	103	%	103	(60-140)		
DUP_202202161056	1,2-Dibromopropane (S)		100	102	%	102	(60-140)		
LCS2	1,2-Dibromopropane (S)		100	101	%	101	(60-140)		
MBLK	1,2-Dibromopropane (S)			92.0	%	92	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)		100	102	%	102	(60-140)		
MRLLW	1,2-Dibromopropane (S)		100	97.6	%	98	(60-140)		
MS_202202150848	1,2-Dibromopropane (S)		100	103	%	103	(60-140)		
Alkalinity in CaCO3 units by SM 2320B									
Analytical Batch: 1389618						**Analysis Date: 02/25/2022**			
LCS1	Alkalinity in CaCO3 units		100	98.0	mg/L	98	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.1	mg/L	99	(90-110)	20	1.0
MBLK	Alkalinity in CaCO3 units			<1	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2	2.12	mg/L	106	(50-150)		
MS_202202160931	Alkalinity in CaCO3 units	62	100	160	mg/L	99	(80-120)		
MS_202202161045	Alkalinity in CaCO3 units	130	100	216	mg/L	88	(80-120)		
MSD_202202160931	Alkalinity in CaCO3 units	62	100	160	mg/L	98	(80-120)	20	0.36
MSD_202202161045	Alkalinity in CaCO3 units	130	100	218	mg/L	90	(80-120)	20	1.1
PH (H3=past HT not compliant) by SM4500-HB									
Analytical Batch: 1389621						**Analysis Date: 02/25/2022**			
DUP_202202160931	PH (H3=past HT not compliant)	7.9		7.94	Units		(0-20)	20	0.76
DUP_202202161045	PH (H3=past HT not compliant)	7.6		7.67	Units		(0-20)	20	0.26
LCS1	PH (H3=past HT not compliant)		6	6.00	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6	6.00	Units	100	(98-102)	20	0.0
Specific Conductance by SM2510B									
Analytical Batch: 1389625						**Analysis Date: 02/25/2022**			
DUP1_202202160931	Specific Conductance	330		330	umho/cm		(0-20)	20	0.36

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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%
DUP1_202202161045	Specific Conductance	560		556	umho/cm		(0-20)	20	0.29
LCS1	Specific Conductance		1000	968	umho/cm	97	(90-110)		
LCS2	Specific Conductance		1000	958	umho/cm	96	(90-110)	20	1.0
MBLK	Specific Conductance			<1	umho/cm				
MRL_CHK	Specific Conductance		1.8	1.90	umho/cm	106	(50-150)		

Organochlorine Pesticides/PCBs by EPA 505

Prep Batch: 1389568 Analytical Batch: 1389922 **Analysis Date: 02/25/2022**

CCCH	Alachlor (Alanex)		1	0.991	ug/L	99	(70-130)		
CCCH	Alachlor (Alanex)		1	0.956	ug/L	96	(70-130)		
LCS1	Alachlor (Alanex)		1	1.00	ug/L	100	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.106	ug/L	106	(50-150)		
MS1_202202190133	Alachlor (Alanex)	ND	0.2	0.206	ug/L	103	(65-135)		
MS2_202202210107	Alachlor (Alanex)	ND	1	0.968	ug/L	97	(65-135)		
CCCH	Aldrin		0.1	0.104	ug/L	104	(70-130)		
CCCH	Aldrin		0.1	0.0961	ug/L	96	(70-130)		
LCS1	Aldrin		0.1	0.0973	ug/L	97	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0107	ug/L	107	(50-150)		
MS1_202202190133	Aldrin	ND	0.02	0.0205	ug/L	102	(65-135)		
MS2_202202210107	Aldrin	ND	0.1	0.0991	ug/L	99	(65-135)		
LCS1	Chlordane		0.5	0.538	ug/L	108	(70-130)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.0954	ug/L	95	(70-130)		
CCCH	Dieldrin		0.1	0.0925	ug/L	93	(70-130)		
LCS1	Dieldrin		0.1	0.0955	ug/L	96	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.0100	ug/L	100	(50-150)		
MS1_202202190133	Dieldrin	ND	0.02	0.0195	ug/L	98	(65-135)		
MS2_202202210107	Dieldrin	ND	0.1	0.0942	ug/L	94	(65-135)		
CCCH	Endrin		0.1	0.0975	ug/L	98	(70-130)		
CCCH	Endrin		0.1	0.0948	ug/L	95	(70-130)		
LCS1	Endrin		0.1	0.0991	ug/L	99	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0108	ug/L	108	(50-150)		
MS1_202202190133	Endrin	ND	0.02	0.0199	ug/L	97	(65-135)		
MS2_202202210107	Endrin	ND	0.1	0.0952	ug/L	95	(65-135)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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CCCH	Heptachlor		0.1	0.0950	ug/L	95	(70-130)		
CCCH	Heptachlor		0.1	0.0914	ug/L	91	(70-130)		
LCS1	Heptachlor		0.1	0.0979	ug/L	98	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00650	ug/L	65	(50-150)		
MS1_202202190133	Heptachlor	ND	0.02	0.0149	ug/L	75	(65-135)		
MS2_202202210107	Heptachlor	ND	0.1	0.0930	ug/L	93	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.0950	ug/L	95	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.0929	ug/L	93	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.0964	ug/L	96	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0123	ug/L	123	(50-150)		
MS1_202202190133	Heptachlor Epoxide	ND	0.02	0.0204	ug/L	102	(65-135)		
MS2_202202210107	Heptachlor Epoxide	ND	0.1	0.0928	ug/L	93	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.0978	ug/L	98	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.0950	ug/L	95	(70-130)		
LCS1	Lindane (gamma-BHC)		0.1	0.0990	ug/L	99	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.00940	ug/L	94	(50-150)		
MS1_202202190133	Lindane (gamma-BHC)	ND	0.02	0.0178	ug/L	89	(65-135)		
MS2_202202210107	Lindane (gamma-BHC)	ND	0.1	0.0955	ug/L	96	(65-135)		
CCCH	Methoxychlor		0.5	0.541	ug/L	108	(70-130)		
CCCH	Methoxychlor		0.5	0.515	ug/L	103	(70-130)		
LCS1	Methoxychlor		0.5	0.517	ug/L	103	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0637	ug/L	127	(50-150)		
MS1_202202190133	Methoxychlor	ND	0.1	0.116	ug/L	116	(65-135)		
MS2_202202210107	Methoxychlor	ND	0.5	0.515	ug/L	103	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			97.3	%	97	(70-130)		
CCCH	Tetrachlorometaxylene (S)			102	%	102	(70-130)		
LCS1	Tetrachlorometaxylene (S)			96.3	%	96	(70-130)		

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MBLK	Tetrachlorometaxylene (S)			95.5	%	95	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			93.8	%	94	(70-130)		
MS1_202202190133	Tetrachlorometaxylene (S)			87.8	%	88	(70-130)		
MS2_202202210107	Tetrachlorometaxylene (S)			109	%	109	(70-130)		
CCCH	Toxaphene		2.5	2.61	ug/L	105	(70-130)		
LCS1	Toxaphene		2.5	2.47	ug/L	99	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.510	ug/L	102	(50-150)		
MS1_202202190133	Toxaphene		2.5	2.53	ug/L	101	(65-135)		
MS2_202202210107	Toxaphene		2.5	2.56	ug/L	102	(65-135)		
Fluoride by SM 4500F-C									
Analytical Batch: 1391038						**Analysis Date: 03/03/2022**			
LCS1	Fluoride		1	0.975	mg/L	98	(90-110)		
LCS2	Fluoride		1	0.975	mg/L	98	(90-110)	20	0.0
MBLK	Fluoride			<0.025	mg/L				
MRL_CHK	Fluoride		0.05	0.0483	mg/L	97	(50-150)		
MS_202202140661	Fluoride	0.41	1	1.39	mg/L	98	(80-120)		
MS_202202190062	Fluoride	0.17	1	1.12	mg/L	95	(80-120)		
MSD_202202140661	Fluoride	0.41	1	1.40	mg/L	99	(80-120)	20	0.42
MSD_202202190062	Fluoride	0.17	1	1.12	mg/L	96	(80-120)	20	0.089
Organochlorine Pesticides by EPA 505									
Prep Batch: 1389832 Analytical Batch: 1396621						**Analysis Date: 02/25/2022**			
CCCH	Aldrin		0.1	0.104	ug/L	104	(70-130)		
CCCL	Aldrin		0.002	0.00230	ug/L	115	(50-150)		
LCS1	Aldrin		0.1	0.0973	ug/L	97	(50-150)		
MBLK	Aldrin			<0.005	ug/L				
MRL_CHK	Aldrin		0.01	0.0107	ug/L	107	(50-150)		
MS1_202202190133	Aldrin		0.02	0.0205	ug/L	102	(65-135)		
MS2_202202210107	Aldrin		0.1	0.0991	ug/L	99	(65-135)		
CCCH	Dieldrin		0.1	0.0954	ug/L	95	(70-130)		
CCCL	Dieldrin		0.002	0.00200	ug/L	100	(50-150)		
LCS1	Dieldrin		0.1	0.0955	ug/L	96	(50-150)		
MBLK	Dieldrin			<0.002	ug/L				
MRL_CHK	Dieldrin		0.01	0.0100	ug/L	100	(50-150)		
MS1_202202190133	Dieldrin		0.02	0.0195	ug/L	98	(65-135)		
MS2_202202210107	Dieldrin		0.1	0.0942	ug/L	94	(65-135)		
CCCH	Tetrachloro-m-xylene (S)			97.3	%	97	(70-130)		

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

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Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
CCCL	Tetrachloro-m-xylene (S)			111	%	111	(50-150)		
LCS1	Tetrachloro-m-xylene (S)			96.3	%	96	(70-130)		
MBLK	Tetrachloro-m-xylene (S)			95.5	%	95	(70-130)		
MRL_CHK	Tetrachloro-m-xylene (S)			93.8	%	94	(70-130)		
MS1_202202190133	Tetrachloro-m-xylene (S)			87.8	%	88	(70-130)		
MS2_202202210107	Tetrachloro-m-xylene (S)			109	%	109	(70-130)		
CCCH	Toxaphene		2.5	2.61	ug/L	105	(70-130)		
CCCL	Toxaphene		0.1	0.133	ug/L	133	(50-150)		
LCS1	Toxaphene		2.5	2.47	ug/L	99	(50-150)		
MBLK	Toxaphene			<0.1	ug/L				
MRL_CHK	Toxaphene		0.5	0.510	ug/L	102	(50-150)		
MS1_202202190133	Toxaphene	ND	2.5	2.53	ug/L	101	(65-135)		
MS2_202202210107	Toxaphene	ND	2.5	2.56	ug/L	102	(65-135)		

Organochlorine Pesticides/PCBs by EPA 505

Prep Batch: 1396071 Analytical Batch: 1396932 **Analysis Date: 03/25/2022**

CCCH	Alachlor (Alanex)		1	1.04	ug/L	104	(70-130)		
CCCH	Alachlor (Alanex)		1	1.00	ug/L	101	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.110	ug/L	110	(50-150)		
MS1_202203150140	Alachlor (Alanex)	ND	0.2	0.211	ug/L	106	(65-135)		
MS2_202203150174	Alachlor (Alanex)	ND	1	0.963	ug/L	96	(65-135)		
CCCH	Aldrin		0.1	0.109	ug/L	109	(70-130)		
CCCH	Aldrin		0.1	0.122	ug/L	122	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0124	ug/L	124	(50-150)		
MS1_202203150140	Aldrin	ND	0.02	0.0243	ug/L	121	(65-135)		
MS2_202203150174	Aldrin	ND	0.1	0.109	ug/L	109	(65-135)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.108	ug/L	108	(70-130)		
CCCH	Dieldrin		0.1	0.105	ug/L	105	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.0106	ug/L	106	(50-150)		
MS1_202203150140	Dieldrin	ND	0.02	0.0210	ug/L	105	(65-135)		
MS2_202203150174	Dieldrin	ND	0.1	0.0985	ug/L	99	(65-135)		
CCCH	Endrin		0.1	0.112	ug/L	112	(70-130)		
CCCH	Endrin		0.1	0.106	ug/L	106	(70-130)		
MBLK	Endrin			<0.01	ug/L				

Spike recovery is already corrected for native results.
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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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(I) - Indicates internal standard compound.

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Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Endrin		0.01	0.0112	ug/L	112	(50-150)		
MS1_202203150140	Endrin	ND	0.02	0.0210	ug/L	89	(65-135)		
MS2_202203150174	Endrin	ND	0.1	0.103	ug/L	102	(65-135)		
CCCH	Heptachlor		0.1	0.108	ug/L	108	(70-130)		
CCCH	Heptachlor		0.1	0.108	ug/L	109	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.0107	ug/L	107	(50-150)		
MS1_202203150140	Heptachlor	ND	0.02	0.0195	ug/L	98	(65-135)		
MS2_202203150174	Heptachlor	ND	0.1	0.0999	ug/L	100	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.108	ug/L	109	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.105	ug/L	105	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0121	ug/L	121	(50-150)		
MS1_202203150140	Heptachlor Epoxide	ND	0.02	0.0226	ug/L	113	(65-135)		
MS2_202203150174	Heptachlor Epoxide	ND	0.1	0.0990	ug/L	99	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.104	ug/L	104	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.101	ug/L	101	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0104	ug/L	104	(50-150)		
MS1_202203150140	Lindane (gamma-BHC)	ND	0.02	0.0204	ug/L	102	(65-135)		
MS2_202203150174	Lindane (gamma-BHC)	ND	0.1	0.0964	ug/L	96	(65-135)		
CCCH	Methoxychlor		0.5	0.562	ug/L	112	(70-130)		
CCCH	Methoxychlor		0.5	0.524	ug/L	105	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0491	ug/L	98	(50-150)		
MS1_202203150140	Methoxychlor	ND	0.1	0.0860	ug/L	86	(65-135)		
MS2_202203150174	Methoxychlor	ND	0.5	0.524	ug/L	105	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			118	%	118	(70-130)		
CCCH	Tetrachlorometaxylene (S)			108	%	108	(70-130)		
MBLK	Tetrachlorometaxylene (S)			107	%	107	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			104	%	105	(70-130)		

Spike recovery is already corrected for native results.
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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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Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_202203150140	Tetrachlorometaxylene (S)			104	%	104	(70-130)		
MS2_202203150174	Tetrachlorometaxylene (S)			99.6	%	100	(70-130)		
CCCH	Toxaphene		2.5	2.57	ug/L	103	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.400	ug/L	80	(50-150)		
MS1_202203150140	Toxaphene		2.5	2.10	ug/L	84	(65-135)		
MS2_202203150174	Toxaphene		2.5	2.57	ug/L	103	(65-135)		

Spike recovery is already corrected for native results.
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Laboratory Hits

Report: 987883
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
02/16/2022 1523

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	202202160931	**BWS2253-J1-AQ**				
03/17/2022 00:00	Acenaphthene		0.00501		ug/L	0.005
02/25/2022 22:37	Alkalinity in CaCO3 units		62		mg/L	2.0
03/01/2022 16:44	Bicarb.Alkalinity as HCO3calc		75		mg/L	2.0
02/18/2022 19:44	Bromide		200		ug/L	5.0
02/18/2022 10:40	Calcium Total ICAP		11		mg/L	1.0
02/16/2022 21:53	Chloride		55	250	mg/L	1.0
02/21/2022 14:37	Chromium Total ICAP/MS		5.2	100	ug/L	1.0
02/26/2022 06:53	Dieldrin		0.0023		ug/L	0.0020
03/03/2022 21:39	Fluoride		0.073	4	mg/L	0.050
02/18/2022 10:40	Magnesium Total ICAP		11		mg/L	0.10
02/21/2022 14:37	Nickel Total ICAP/MS		26		ug/L	5.0
02/16/2022 21:53	Nitrate as Nitrogen by IC		0.56	10	mg/L	0.10
02/25/2022 22:37	PH (H3=past HT not compliant)		7.9		Units	0.10
02/18/2022 10:40	Potassium Total ICAP		1.9		mg/L	1.0
02/18/2022 10:40	Sodium Total ICAP		36		mg/L	1.0
02/25/2022 22:37	Specific Conductance, 25 C		330		umho/cm	2.0
02/16/2022 21:53	Sulfate		10	250	mg/L	1.0
02/22/2022 19:19	Total Dissolved Solids (TDS)		210	500	mg/L	10

SUMMARY OF POSITIVE DATA ONLY

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

Date: 03-08-2022
EMAX Batch No.: 22B177

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 987883

Enclosed is the Laboratory report for samples received on 02/17/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202202160931	B177-01	02/15/22	WATER	TPH GASOLINE
				ETHANOL
				TPH
202202160932	B177-02	02/15/22	WATER	TPH GASOLINE
202202160931MS	B177-01M	02/15/22	WATER	TPH GASOLINE
				ETHANOL
				TPH
202202160931MSD	B177-01S	02/15/22	WATER	TPH GASOLINE
				ETHANOL
				TPH

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Pang
Laboratory Director

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 #: 987883 **Report Due:** 02/21/2022

Submittal Form 22B177

Date: 2/17/2022

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder# **987883** 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

2-3 day rush

Sample ID		Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202202160931	(1)	BWS2253-J1-AQ	02/15/22 1030	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
202202160932	(2)	TRAVEL BLANK Raw	02/15/22 1030	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 2/17/22 Time 1204

Received by: Date 02/17/22 Time 12:14

Relinquished by: Sample Control Date _____ Time _____

Received by: Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

(1) (3) (4)
Temp. 2.4/1.9, 2.2/1.7, 2.6/2.1

Type of Delivery	Airbill / Tracking Number	ECN 22B177
☐ Fedex ☐ UPS ☐ GSO ☐ Others		Recipient Jocelyne Soto
☐ EMAX Courier ☒ Client Delivery		Date 02/17/22 Time 12:14

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 *correction	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging Factor:	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures -0.5	☒ Cooler 1 2.4/1.9 °C	☐ Cooler 2 _____ °C	☒ Cooler 3 2.2/1.7 °C	☒ Cooler 4 2.6/2.1 °C	☐ Cooler 5 _____ °C
(Cool, ≤6 °C but not frozen)	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	A - S/N ~~210191066~~ @ 14/14	B - S/N 210271396	(C) S/N 210271399	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	14	D2	Label reads 625	R8
2	19-20	D22	Two dates	R1

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

MB 2/18/22

NOTES/OBSERVATIONS:

LEGEND:

☐ **Continue to next page.**

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Sample Management
D1	Analysis is not indicated in _____	D13	Out of Holding Time	R1	Proceed as indicated in ☒ COC ☐ Label
(D2)	Analysis mismatch COC vs label	D14	Bubble is >6mm	R2	Refer to attached instruction
D3	Sample ID mismatch COC vs label	D15	No trip blank in cooler	R3	Cancel the analysis
D4	Sample ID is not indicated in _____	D16	Preservation not indicated in _____	R4	Use vial with smallest bubble first
D5	Container -[improper] [leaking] [broken]	D17	Preservation mismatch COC vs label	R5	Log-in with latest sampling date and time+1 min
D6	Date/Time is not indicated in _____	D18	Insufficient chemical preservative	R6	Adjust pH as necessary
D7	Date/Time mismatch COC vs label	D19	Insufficient Sample	R7	Filter and preserved as necessary
D8	Sample listed in COC is not received	D20	No filtration info for dissolved analysis	R8	Informed client
D9	Sample received is not listed in COC	D21	No sample for moisture determination	R9	
D10	No initial/date on corrections in COC/label	(D22)	11/23/21 and 2/15/22	R10	
D11	Container count mismatch COC vs received	D23		R11	
D12	Container size mismatch COC vs received	D24		R12	

REVIEWS:

Sample Labeling Maria Rivera
Date 02/17/22 2/18/22

SRF
Date 2/18/22

PM MB
Date 2/18/22

REPORTING CONVENTIONS

DATA QUALIFIERS:

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

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

ACRONYMS AND ABBREVIATIONS:

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

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

987883

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

SDG#: 22B177

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 987883

SDG : 22B177

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

A total of two(2) water samples were received on 02/17/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39B10B - 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. VG39B10L/VG39B10C 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 B177-01M/B177-01S. 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 : 987883

SDG NO. : 22B177
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	VG39B10B	1	NA	02/17/2216:15	02/17/2216:15	EB17005A	EB17003A	22VG39B10	Method Blank
LCS1W	VG39B10L	1	NA	02/17/2216:52	02/17/2216:52	EB17006A	EB17003A	22VG39B10	Lab Control Sample (LCS)
LCD1W	VG39B10C	1	NA	02/17/2217:28	02/17/2217:28	EB17007A	EB17003A	22VG39B10	LCS Duplicate
202202160932	B177-02	1	NA	02/17/2219:17	02/17/2219:17	EB17010A	EB17003A	22VG39B10	Field Sample
202202160931	B177-01	1	NA	02/17/2219:53	02/17/2219:53	EB17011A	EB17003A	22VG39B10	Field Sample
202202160931MS	B177-01M	1	NA	02/17/2220:30	02/17/2220:30	EB17012A	EB17003A	22VG39B10	Matrix Spike Sample (MS)
202202160931MSD	B177-01S	1	NA	02/17/2221:06	02/17/2221:06	EB17013A	EB17003A	22VG39B10	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

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

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/15/22 10:30
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	02/17/22 19:53
Sample ID	: 202202160931	Date Analyzed:	02/17/22 19:53
Lab Samp ID:	B177-01	Dilution Factor:	1
Lab File ID:	EB17011A	Matrix:	WATER
Ext Btch ID:	22VG39B10	% Moisture:	NA
Calib. Ref.:	EB17003A	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	0.0334	0.0400	84	60-140

Notes:

Parameter	H-C Range
Gasoline	C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 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:	02/15/22 10:30
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	02/17/22 19:17
Sample ID	: 202202160932	Date Analyzed:	02/17/22 19:17
Lab Samp ID:	B177-02	Dilution Factor:	1
Lab File ID:	EB17010A	Matrix:	WATER
Ext Btch ID:	22VG39B10	% Moisture:	NA
Calib. Ref.:	EB17003A	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	0.0338	0.0400	84	60-140

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

Detection limits are reported relative to sample result significant figures.
Sample Amount : 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:	02/17/22 16:15
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	02/17/22 16:15
Sample ID	: MBLK1W	Date Analyzed:	02/17/22 16:15
Lab Samp ID:	VG39B10B	Dilution Factor:	1
Lab File ID:	EB17005A	Matrix:	WATER
Ext Btch ID:	22VG39B10	% Moisture:	NA
Calib. Ref.:	EB17003A	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	0.0339	0.0400	85	60-140

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

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 987883
BATCH NO. : 22B177
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VG39B10B	VG39B10L	VG39B10C
LAB FILE ID	: EB17005A	EB17006A	EB17007A
DATE PREPARED	: 02/17/22 16:15	02/17/22 16:52	02/17/22 17:28
DATE ANALYZED	: 02/17/22 16:15	02/17/22 16:52	02/17/22 17:28
PREP BATCH	: 22VG39B10	22VG39B10	22VG39B10
CALIBRATION REF	: EB17003A	EB17003A	EB17003A

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	0.443	89	0.500	0.456	91	3	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0404	101	0.0400	0.0412	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 : 987883
BATCH NO. : 22B177
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202202160931	202202160931MS	202202160931MSD
LAB SAMPLE ID	: B177-01	B177-01M	B177-01S
LAB FILE ID	: EB17011A	EB17012A	EB17013A
DATE PREPARED	: 02/17/22 19:53	02/17/22 20:30	02/17/22 21:06
DATE ANALYZED	: 02/17/22 19:53	02/17/22 20:30	02/17/22 21:06
PREP BATCH	: 22VG39B10	22VG39B10	22VG39B10
CALIBRATION REF	: EB17003A	EB17003A	EB17003A

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	0.495	99	0.500	0.499	100	1	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0420	105	0.0400	0.0431	108	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

987883

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22B177

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 987883

SDG : 22B177

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/17/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSB027WB - 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 DSB027WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22B177-01M/22B177-01S. 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: 987883

SDG : 22B177

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/17/22 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. DSB027WB - 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 J5B027WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22B177-01M/22B177-01S. 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: 987883

SDG : 22B177

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/17/22 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. DSB027WB - 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 J8B027WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22B177-01M/22B177-01S. 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 : 987883

SDG NO. : 22B177
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	DSB027WB	1	NA	02/22/2221:14	02/21/2210:30	LB22012A	LB22006A	22DSB027W	Method Blank
LCS1W	DSB027WL	1	NA	02/22/2221:32	02/21/2210:30	LB22013A	LB22006A	22DSB027W	Lab Control Sample (LCS)
202202160931	B177-01	1	NA	02/22/2222:46	02/21/2210:30	LB22017A	LB22006A	22DSB027W	Field Sample
202202160931MS	B177-01M	1	NA	02/22/2223:05	02/21/2210:30	LB22018A	LB22006A	22DSB027W	Matrix Spike Sample (MS)
202202160931MSD	B177-01S	1	NA	02/22/2223:23	02/21/2210:30	LB22019A	LB22006A	22DSB027W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 987883

SDG NO. : 22B177
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	DSB027WB	1	NA	02/22/2221:14	02/21/2210:30	LB22012A	LB22007A	22DSB027W	Method Blank
LCS1W	J5B027WL	1	NA	02/22/2221:51	02/21/2210:30	LB22014A	LB22007A	22DSB027W	Lab Control Sample (LCS)
202202160931	B177-01	1	NA	02/22/2222:46	02/21/2210:30	LB22017A	LB22007A	22DSB027W	Field Sample
202202160931MS	B177-01M	1	NA	02/22/2223:42	02/21/2210:30	LB22020A	LB22007A	22DSB027W	Matrix Spike Sample (MS)
202202160931MSD	B177-01S	1	NA	02/23/2200:00	02/21/2210:30	LB22021A	LB22007A	22DSB027W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 987883

SDG NO. : 22B177
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	DSB027WB	1	NA	02/22/2221:14	02/21/2210:30	LB22012A	LB22008A	22DSB027W	Method Blank
LCS1W	J8B027WL	1	NA	02/22/2222:09	02/21/2210:30	LB22015A	LB22008A	22DSB027W	Lab Control Sample (LCS)
202202160931	B177-01	1	NA	02/22/2222:46	02/21/2210:30	LB22017A	LB22008A	22DSB027W	Field Sample
202202160931MS	B177-01M	1	NA	02/23/2200:19	02/21/2210:30	LB22022A	LB22008A	22DSB027W	Matrix Spike Sample (MS)
202202160931MSD	B177-01S	1	NA	02/23/2200:38	02/21/2210:30	LB22023A	LB22008A	22DSB027W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/15/22 10:30
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	02/21/22 10:30
Sample ID	: 202202160931	Date Analyzed:	02/22/22 22:46
Lab Samp ID:	22B177-01	Dilution Factor:	1
Lab File ID:	LB22017A	Matrix:	WATER
Ext Btch ID:	22DSB027W	% Moisture:	NA
Calib. Ref.:	LB22006A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.025	0.013
Motor Oil	ND	0.051	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.458	0.505	91	60-130
Hexacosane	0.117	0.126	93	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	: 990ml	Final Volume :	5ml
Prepared by	: POreto	Analyzed by :	SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/15/22 10:30
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	02/21/22 10:30
Sample ID	: 202202160931	Date Analyzed:	02/22/22 22:46
Lab Samp ID:	22B177-01	Dilution Factor:	1
Lab File ID:	LB22017A	Matrix:	WATER
Ext Btch ID:	22DSB027W	% Moisture:	NA
Calib. Ref.:	LB22007A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.051	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.458	0.505	91	60-130
Hexacosane	0.117	0.126	93	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 : 990ml Final Volume : 5ml
Prepared by : POreto Analyzed by : SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/15/22 10:30
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	02/21/22 10:30
Sample ID	: 202202160931	Date Analyzed:	02/22/22 22:46
Lab Samp ID:	22B177-01	Dilution Factor:	1
Lab File ID:	LB22017A	Matrix:	WATER
Ext Btch ID:	22DSB027W	% Moisture:	NA
Calib. Ref.:	LB22008A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.051	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.458	0.505	91	60-130
Hexacosane	0.117	0.126	93	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 : 990ml Final Volume : 5ml
Prepared by : POreto Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/21/22 10:30
Project	: 987883	Date Received:	02/21/22
Batch No.	: 22B177	Date Extracted:	02/21/22 10:30
Sample ID	: MBLK1W	Date Analyzed:	02/22/22 21:14
Lab Samp ID:	DSB027WB	Dilution Factor:	1
Lab File ID:	LB22012A	Matrix:	WATER
Ext Btch ID:	22DSB027W	% Moisture:	NA
Calib. Ref.:	LB22006A	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	0.384	0.500	77	60-130
Hexacosane	0.110	0.125	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	: 1000ml	Final Volume	: 5ml
Prepared by	: POreto	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 987883
BATCH NO. : 22B177
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSB027WB	DSB027WL
LAB FILE ID	: LB22012A	LB22013A
DATE PREPARED	: 02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	: 02/22/22 21:14	02/22/22 21:32
PREP BATCH	: 22DSB027W	22DSB027W
CALIBRATION REF	: LB22006A	LB22006A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.72	109	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.567	113	60-130
Hexacosane	0.125	0.130	104	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 987883
BATCH NO. : 22B177
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202202160931	202202160931MS	202202160931MSD
LAB SAMPLE ID	: 22B177-01	22B177-01M	22B177-01S
LAB FILE ID	: LB22017A	LB22018A	LB22019A
DATE PREPARED	: 02/21/22 10:30	02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	: 02/22/22 22:46	02/22/22 23:05	02/22/22 23:23
PREP BATCH	: 22DSB027W	22DSB027W	22DSB027W
CALIBRATION REF	: LB22006A	LB22006A	LB22006A

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	2.89	116	2.55	3.16	124	9	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.478	96	0.510	0.512	100	60-130
Hexacosane	0.125	0.122	98	0.127	0.132	104	60-130

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

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/21/22 10:30
Project	: 987883	Date Received:	02/21/22
Batch No.	: 22B177	Date Extracted:	02/21/22 10:30
Sample ID	: MBLK1W	Date Analyzed:	02/22/22 21:14
Lab Samp ID:	DSB027WB	Dilution Factor:	1
Lab File ID:	LB22012A	Matrix:	WATER
Ext Btch ID:	22DSB027W	% Moisture:	NA
Calib. Ref.:	LB22007A	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	0.384	0.500	77	60-130
Hexacosane	0.110	0.125	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 : 1000ml Final Volume : 5ml
Prepared by : POreto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 987883
BATCH NO. : 22B177
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSB027WB	J5B027WL
LAB FILE ID	: LB22012A	LB22014A
DATE PREPARED	: 02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	: 02/22/22 21:14	02/22/22 21:51
PREP BATCH	: 22DSB027W	22DSB027W
CALIBRATION REF	: LB22007A	LB22007A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.25	90	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.450	90	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 : 987883
BATCH NO. : 22B177
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202202160931	202202160931MS	202202160931MSD
LAB SAMPLE ID	: 22B177-01	22B177-01M	22B177-01S
LAB FILE ID	: LB22017A	LB22020A	LB22021A
DATE PREPARED	: 02/21/22 10:30	02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	: 02/22/22 22:46	02/22/22 23:42	02/23/22 00:00
PREP BATCH	: 22DSB027W	22DSB027W	22DSB027W
CALIBRATION REF	: LB22007A	LB22007A	LB22007A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.53	2.69	107	2.53	2.59	103	4	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.505	0.495	98	0.505	0.501	99	60-130
Hexacosane	0.126	0.121	96	0.126	0.120	95	60-130

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

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/21/22 10:30
Project	: 987883	Date Received:	02/21/22
Batch No.	: 22B177	Date Extracted:	02/21/22 10:30
Sample ID	: MBLK1W	Date Analyzed:	02/22/22 21:14
Lab Samp ID:	DSB027WB	Dilution Factor:	1
Lab File ID:	LB22012A	Matrix:	WATER
Ext Btch ID:	22DSB027W	% Moisture:	NA
Calib. Ref.:	LB22008A	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	0.384	0.500	77	60-130
Hexacosane	0.110	0.125	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 : 1000ml Final Volume : 5ml
Prepared by : POreto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 987883
BATCH NO. : 22B177
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSB027WB	J8B027WL
LAB FILE ID	: LB22012A	LB22015A
DATE PREPARED	: 02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	: 02/22/22 21:14	02/22/22 22:09
PREP BATCH	: 22DSB027W	22DSB027W
CALIBRATION REF	: LB22008A	LB22008A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	2.21	88	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.528	106	60-130
Hexacosane	0.125	0.122	98	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 987883
BATCH NO. : 22B177
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 202202160931	202202160931MS	202202160931MSD
LAB SAMPLE ID	: 22B177-01	22B177-01M	22B177-01S
LAB FILE ID	: LB22017A	LB22022A	LB22023A
DATE PREPARED	: 02/21/22 10:30	02/21/22 10:30	02/21/22 10:30
DATE ANALYZED	: 02/22/22 22:46	02/23/22 00:19	02/23/22 00:38
PREP BATCH	: 22DSB027W	22DSB027W	22DSB027W
CALIBRATION REF	: LB22008A	LB22008A	LB22008A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.62	2.58	98	2.62	2.26	86	13	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.525	0.563	107	0.525	0.491	94	60-130
Hexacosane	0.131	0.128	98	0.131	0.123	94	60-130

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

987883

METHOD SW8015C
ALCOHOLS BY GC

SDG#: 22B177

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 987883

SDG : 22B177

METHOD SW8015C
ALCOHOLS BY GC

One(1) water sample was received on 02/17/22 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. MEB006WB - 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. MEB006WL/MEB006WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Ethanol was within MS QC limits in B177-01M/B177-01S. 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 : 987883

SDG NO. : 22B177
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	MEB006WB	1	NA	02/18/2211:42	NA	TB18004A	TB18002A	MEB006W	Method Blank
LCS1W	MEB006WL	1	NA	02/18/2211:56	NA	TB18005A	TB18002A	MEB006W	Lab Control Sample (LCS)
LCD1W	MEB006WC	1	NA	02/18/2212:10	NA	TB18006A	TB18002A	MEB006W	LCS Duplicate
202202160931	B177-01	1	NA	02/18/2212:32	NA	TB18007A	TB18002A	MEB006W	Field Sample
202202160931MS	B177-01M	1	NA	02/18/2212:46	NA	TB18008A	TB18002A	MEB006W	Matrix Spike Sample (MS)
202202160931MSD	B177-01S	1	NA	02/18/2213:02	NA	TB18009A	TB18002A	MEB006W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW8015C
ALCOHOLS BY GC

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	02/15/22
Project	: 987883	Date Received:	02/17/22
Batch No.	: 22B177	Date Extracted:	NA
Sample ID:	202202160931	Date Analyzed:	02/18/22 12:32
Lab Samp ID:	B177-01	Dilution Factor:	1
Lab File ID:	TB18007A	Matrix :	WATER
Ext Btch ID:	MEB006W	% Moisture :	NA
Calib. Ref.:	TB18002A	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 : 987883	Date Received: NA
Batch No. : 22B177	Date Extracted: NA
Sample ID: MBLK1W	Date Analyzed: 02/18/22 11:42
Lab Samp ID: MEB006WB	Dilution Factor: 1
Lab File ID: TB18004A	Matrix : WATER
Ext Btch ID: MEB006W	% Moisture : NA
Calib. Ref.: TB18002A	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: 987883
BATCH NO.: 22B177
METHOD: METHOD SW8015C

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	MEB006WB	MEB006WL	MEB006WC		
LAB FILE ID:	TB18004A	TB18005A	TB18006A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	02/18/2211:42	02/18/2211:56	02/18/2212:10	DATE RECEIVED:	NA
PREP. BATCH:	MEB006W	MEB006W	MEB006W		
CALIB. REF:	TB18002A	TB18002A	TB18002A		

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	9120	91	10000	9370	94	3	60-130	30

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 987883
BATCH NO.: 22B177
METHOD: METHOD SW8015C

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	202202160931				
LAB SAMP ID:	B177-01	B177-01M	B177-01S		
LAB FILE ID:	TB18007A	TB18008A	TB18009A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	02/15/22
DATE ANALYZED:	02/18/2212:32	02/18/2212:46	02/18/2213:02	DATE RECEIVED:	02/17/22
PREP. BATCH:	MEB006W	MEB006W	MEB006W		
CALIB. REF:	TB18002A	TB18002A	TB18002A		

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	10000	100	10000	9820	98	2	60-130	30

March 22, 2022

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

Project Name: Folder # 987883 Job # 1000014
Physis Project ID: 1407003-220

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 2/17/2022. 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

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

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-220

Folder # 987883 Job # 1000014

Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
95397	202202160931	BWS2253-J1-AQ	2/15/2022	10:30	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: 95397-R1	**202202160931 BWS2253-J1-AQ**		**Matrix: Samplewater**				**Sampled:**	**15-Feb-22 10:30**		**Received:**	**17-Feb-22**
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Benzoic Acid	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35086	22-Feb-22	17-Mar-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 95397-R1	**202202160931 BWS2253-J1-AQ**		**Matrix: Samplewater**					**Sampled:**	**15-Feb-22 10:30**	**Received:**	**17-Feb-22**
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35086	22-Feb-22	17-Mar-22

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

PHYSIS Project ID: 1407003-220
Client: Eurofins Eaton Analytical
Project: Folder # 987883 Job # 1000014

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 95397-R1	**202202160931 BWS2253-J1-AQ**		**Matrix: Samplewater**				**Sampled:**	**15-Feb-22 10:30**		**Received:**	**17-Feb-22**
(d10-Acenaphthene)	EPA 625.1	% Recovery	56	1			Total		O-35086	22-Feb-22	17-Mar-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	94	1			Total		O-35086	22-Feb-22	17-Mar-22
(d12-Chrysene)	EPA 625.1	% Recovery	79	1			Total		O-35086	22-Feb-22	17-Mar-22
(d12-Perylene)	EPA 625.1	% Recovery	85	1			Total		O-35086	22-Feb-22	17-Mar-22
(d8-Naphthalene)	EPA 625.1	% Recovery	51	1			Total		O-35086	22-Feb-22	17-Mar-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Acenaphthene	EPA 625.1	µg/L	0.00501	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22

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-35086	22-Feb-22	17-Mar-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35086	22-Feb-22	17-Mar-22

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: 95396-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35086	Prepared: 22-Feb-22					Analyzed: 16-Mar-22	
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: 95396-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 16-Mar-22	
2,4,5-Trichlorophenol	Total	0.652	1	0.05	0.1	µg/L	1	0	65	57 - 116%	PASS		
2,4,6-Trichlorophenol	Total	0.656	1	0.05	0.1	µg/L	1	0	66	56 - 118%	PASS		
2,4-Dichlorophenol	Total	0.564	1	0.05	0.1	µg/L	1	0	56	51 - 117%	PASS		
2,4-Dinitrophenol	Total	1.05	1	0.1	0.2	µg/L	1	0	105	0 - 152%	PASS		
2,6-Dichlorophenol	Total	0.228	1	0.05	0.1	µg/L	0.5	0	46	30 - 130%	PASS		
2,6-Di-tert-butyl-4-methylphenol	Total	0.746	1	0.05	0.1	µg/L	1	0	75	50 - 150%	PASS		
2,6-Di-tert-butylphenol	Total	0.857	1	0.05	0.1	µg/L	1	0	86	50 - 150%	PASS		
2-Chlorophenol	Total	0.463	1	0.05	0.1	µg/L	1	0	46	41 - 110%	PASS		
2-Methyl-4,6-dinitrophenol	Total	1.36	1	0.1	0.2	µg/L	1	0	136	0 - 141%	PASS		
2-Methylphenol	Total	0.471	1	0.1	0.2	µg/L	1	0	47	40 - 117%	PASS		
2-Nitrophenol	Total	0.635	1	0.1	0.2	µg/L	1	0	63	40 - 117%	PASS		
3+4-Methylphenol	Total	0.42	1	0.1	0.2	µg/L	1	0	42	0 - 130%	PASS		
4-Chloro-3-methylphenol	Total	0.557	1	0.1	0.2	µg/L	1	0	56	51 - 128%	PASS		
4-Nitrophenol	Total	0.737	1	0.1	0.2	µg/L	1	0	74	10 - 164%	PASS		
6-tert-butyl-2,4-dimethylphenol	Total	0.763	1	0.05	0.1	µg/L	1	0	76	50 - 150%	PASS		
Benzoic Acid	Total	0.65	1	0.1	0.2	µg/L	1	0	65	2 - 145%	PASS		
Benzyl Alcohol	Total	0.485	1	0.1	0.2	µg/L	1	0	49	43 - 148%	PASS		
Pentachlorophenol	Total	0.768	1	0.05	0.1	µg/L	1	0	77	36 - 111%	PASS		
Phenol	Total	0.364	1	0.1	0.2	µg/L	1	0	36	29 - 114%	PASS		
p-tert-Butylphenol	Total	0.535	1	0.05	0.1	µg/L	1	0	54	50 - 150%	PASS		

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: 95396-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**		
	Method: EPA 625.1					Batch ID: O-35086	Prepared: 22-Feb-22					Analyzed: 17-Mar-22		
2,4,5-Trichlorophenol	Total	0.629	1	0.05	0.1	µg/L	1	0	63	57 - 116%	PASS	3	30	PASS
2,4,6-Trichlorophenol	Total	0.623	1	0.05	0.1	µg/L	1	0	62	56 - 118%	PASS	6	30	PASS
2,4-Dichlorophenol	Total	0.539	1	0.05	0.1	µg/L	1	0	54	51 - 117%	PASS	4	30	PASS
2,4-Dinitrophenol	Total	0.978	1	0.1	0.2	µg/L	1	0	98	0 - 152%	PASS	7	30	PASS
2,6-Dichlorophenol	Total	0.217	1	0.05	0.1	µg/L	0.5	0	43	30 - 130%	PASS	7	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.736	1	0.05	0.1	µg/L	1	0	74	50 - 150%	PASS	1	30	PASS
2,6-Di-tert-butylphenol	Total	0.849	1	0.05	0.1	µg/L	1	0	85	50 - 150%	PASS	1	30	PASS
2-Chlorophenol	Total	0.439	1	0.05	0.1	µg/L	1	0	44	41 - 110%	PASS	4	30	PASS
2-Methyl-4,6-dinitrophenol	Total	1.35	1	0.1	0.2	µg/L	1	0	135	0 - 141%	PASS	1	30	PASS
2-Methylphenol	Total	0.447	1	0.1	0.2	µg/L	1	0	45	40 - 117%	PASS	4	30	PASS
2-Nitrophenol	Total	0.595	1	0.1	0.2	µg/L	1	0	60	40 - 117%	PASS	6	30	PASS
3+4-Methylphenol	Total	0.394	1	0.1	0.2	µg/L	1	0	39	0 - 130%	PASS	7	30	PASS
4-Chloro-3-methylphenol	Total	0.533	1	0.1	0.2	µg/L	1	0	53	51 - 128%	PASS	6	30	PASS
4-Nitrophenol	Total	0.716	1	0.1	0.2	µg/L	1	0	72	10 - 164%	PASS	3	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.752	1	0.05	0.1	µg/L	1	0	75	50 - 150%	PASS	1	30	PASS
Benzoic Acid	Total	0.616	1	0.1	0.2	µg/L	1	0	62	2 - 145%	PASS	5	30	PASS
Benzyl Alcohol	Total	0.46	1	0.1	0.2	µg/L	1	0	46	43 - 148%	PASS	4	30	PASS
Pentachlorophenol	Total	0.765	1	0.05	0.1	µg/L	1	0	76	36 - 111%	PASS	1	30	PASS
Phenol	Total	0.34	1	0.1	0.2	µg/L	1	0	34	29 - 114%	PASS	6	30	PASS
p-tert-Butylphenol	Total	0.524	1	0.05	0.1	µg/L	1	0	52	50 - 150%	PASS	4	30	PASS

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: 95397-MS1	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**	
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22	
2,4,5-Trichlorophenol	Total	0.62	1	0.05	0.1	µg/L	1	0	62	47 - 115%	PASS		
2,4,6-Trichlorophenol	Total	0.6	1	0.05	0.1	µg/L	1	0	60	41 - 120%	PASS		
2,4-Dichlorophenol	Total	0.422	1	0.05	0.1	µg/L	1	0	42	24 - 110%	PASS		
2,4-Dinitrophenol	Total	1.25	1	0.1	0.2	µg/L	1	0	125	24 - 188%	PASS		
2,6-Dichlorophenol	Total	0.202	1	0.05	0.1	µg/L	0.5	0	40	21 - 119%	PASS		
2,6-Di-tert-butyl-4-methylphenol	Total	0.829	1	0.05	0.1	µg/L	1	0	83	50 - 150%	PASS		
2,6-Di-tert-butylphenol	Total	0.739	1	0.05	0.1	µg/L	1	0	74	50 - 150%	PASS		
2-Chlorophenol	Total	0.315	1	0.05	0.1	µg/L	1	0	31	0 - 102%	PASS		
2-Methyl-4,6-dinitrophenol	Total	0.721	1	0.1	0.2	µg/L	1	0	72	29 - 154%	PASS		
2-Methylphenol	Total	0.282	1	0.1	0.2	µg/L	1	0	28	9 - 98%	PASS		
2-Nitrophenol	Total	0.607	1	0.1	0.2	µg/L	1	0	61	0 - 132%	PASS		
3+4-Methylphenol	Total	0.307	1	0.1	0.2	µg/L	1	0	31	0 - 130%	PASS		
4-Chloro-3-methylphenol	Total	0.513	1	0.1	0.2	µg/L	1	0	51	38 - 120%	PASS		
4-Nitrophenol	Total	0.586	1	0.1	0.2	µg/L	1	0	59	0 - 144%	PASS		
6-tert-butyl-2,4-dimethylphenol	Total	0.845	1	0.05	0.1	µg/L	1	0	85	50 - 150%	PASS		
Benzoic Acid	Total	0.594	1	0.1	0.2	µg/L	1	0	59	0 - 140%	PASS		
Benzyl Alcohol	Total	0.304	1	0.1	0.2	µg/L	1	0	30	0 - 99%	PASS		
Pentachlorophenol	Total	0.73	1	0.05	0.1	µg/L	1	0	73	35 - 154%	PASS		
Phenol	Total	0.164	1	0.1	0.2	µg/L	1	0	16	0 - 130%	PASS		
p-tert-Butylphenol	Total	0.522	1	0.05	0.1	µg/L	1	0	52	50 - 150%	PASS		

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: 95397-MS2	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**		
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
2,4,5-Trichlorophenol	Total	0.593	1	0.05	0.1	µg/L	1	0	59	47 - 115%	PASS	5	30	PASS
2,4,6-Trichlorophenol	Total	0.563	1	0.05	0.1	µg/L	1	0	56	41 - 120%	PASS	7	30	PASS
2,4-Dichlorophenol	Total	0.393	1	0.05	0.1	µg/L	1	0	39	24 - 110%	PASS	7	30	PASS
2,4-Dinitrophenol	Total	1.15	1	0.1	0.2	µg/L	1	0	115	24 - 188%	PASS	8	30	PASS
2,6-Dichlorophenol	Total	0.186	1	0.05	0.1	µg/L	0.5	0	37	21 - 119%	PASS	8	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.813	1	0.05	0.1	µg/L	1	0	81	50 - 150%	PASS	2	30	PASS
2,6-Di-tert-butylphenol	Total	0.722	1	0.05	0.1	µg/L	1	0	72	50 - 150%	PASS	3	30	PASS
2-Chlorophenol	Total	0.289	1	0.05	0.1	µg/L	1	0	29	0 - 102%	PASS	10	30	PASS
2-Methyl-4,6-dinitrophenol	Total	0.731	1	0.1	0.2	µg/L	1	0	73	29 - 154%	PASS	1	30	PASS
2-Methylphenol	Total	0.256	1	0.1	0.2	µg/L	1	0	26	9 - 98%	PASS	7	30	PASS
2-Nitrophenol	Total	0.579	1	0.1	0.2	µg/L	1	0	58	0 - 132%	PASS	5	30	PASS
3+4-Methylphenol	Total	0.279	1	0.1	0.2	µg/L	1	0	28	0 - 130%	PASS	10	30	PASS
4-Chloro-3-methylphenol	Total	0.475	1	0.1	0.2	µg/L	1	0	47	38 - 120%	PASS	6	30	PASS
4-Nitrophenol	Total	0.627	1	0.1	0.2	µg/L	1	0	63	0 - 144%	PASS	7	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.824	1	0.05	0.1	µg/L	1	0	82	50 - 150%	PASS	2	30	PASS
Benzoic Acid	Total	0.554	1	0.1	0.2	µg/L	1	0	55	0 - 140%	PASS	7	30	PASS
Benzyl Alcohol	Total	0.278	1	0.1	0.2	µg/L	1	0	28	0 - 99%	PASS	7	30	PASS
Pentachlorophenol	Total	0.709	1	0.05	0.1	µg/L	1	0	71	35 - 154%	PASS	3	30	PASS
Phenol	Total	0.151	1	0.1	0.2	µg/L	1	0	15	0 - 130%	PASS	6	30	PASS
p-tert-Butylphenol	Total	0.503	1	0.05	0.1	µg/L	1	0	50	50 - 150%	PASS	4	30	PASS

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: 95397-R2	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**	**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**		
	Method: EPA 625.1					Batch ID: O-35086	Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
2,4,5-Trichlorophenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2,4,6-Trichlorophenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2,4-Dichlorophenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2,4-Dinitrophenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
2,6-Dichlorophenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2,6-Di-tert-butylphenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2-Chlorophenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2-Methyl-4,6-dinitrophenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
2-Methylphenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
2-Nitrophenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
3+4-Methylphenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
4-Chloro-3-methylphenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
4-Nitrophenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Benzoic Acid	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
Benzyl Alcohol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
Pentachlorophenol	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Phenol	Total	ND	1	0.1	0.2	µg/L					0	30	PASS
p-tert-Butylphenol	Total	ND	1	0.05	0.1	µg/L					0	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: 95396-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35086	Prepared: 22-Feb-22					Analyzed: 16-Mar-22	
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	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: 95396-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 16-Mar-22	
2-Chloronaphthalene	Total	0.59	1	0.05	0.1	µg/L	1	0	59	53 - 130%	PASS		
2-Nitroaniline	Total	0.687	1	0.05	0.1	µg/L	1	0	69	69 - 114%	PASS		
3-Nitroaniline	Total	0.628	1	0.05	0.1	µg/L	1	0	63	23 - 137%	PASS		
4-Bromophenylphenyl ether	Total	0.628	1	0.05	0.1	µg/L	1	0	63	61 - 132%	PASS		
4-Chloroaniline	Total	0.533	1	0.05	0.1	µg/L	1	0	53	50 - 150%	PASS		
4-Chlorophenylphenyl ether	Total	0.422	1	0.05	0.1	µg/L	0.5	0	84	63 - 130%	PASS		
4-Nitroaniline	Total	0.903	1	0.05	0.1	µg/L	1	0	90	10 - 159%	PASS		
Aniline	Total	0.381	1	0.05	0.1	µg/L	0.5	0	76	50 - 150%	PASS		
Benzidine	Total	0.737	1	0.05	0.1	µg/L	1	0	74	0 - 125%	PASS		
Bis(2-Chloroethoxy) methane	Total	0.725	1	0.05	0.1	µg/L	1	0	73	66 - 122%	PASS		
Bis(2-Chloroethyl) ether	Total	0.481	1	0.05	0.1	µg/L	1	0	48	43 - 127%	PASS		
Bis(2-Chloroisopropyl) ether	Total	0.58	1	0.05	0.1	µg/L	1	0	58	49 - 128%	PASS		
Dibenzofuran	Total	0.406	1	0.05	0.1	µg/L	0.5	0	81	50 - 150%	PASS		
Disalicylidenepropanediamin	Total	0.443	1	0.05	0.1	µg/L	0.5	0	89	50 - 150%	PASS		
Hexachloroethane	Total	0.884	1	0.05	0.1	µg/L	1	0	88	27 - 130%	PASS		
Nitrobenzene	Total	0.579	1	0.05	0.1	µg/L	1	0	58	54 - 111%	PASS		
N-Nitrosodi-n-propylamine	Total	0.633	1	0.05	0.1	µg/L	1	0	63	61 - 152%	PASS		
N-Nitrosodiphenylamine	Total	0.596	1	0.05	0.1	µg/L	1	0	60	49 - 142%	PASS		

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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: 95396-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**		
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
2-Chloronaphthalene	Total	0.572	1	0.05	0.1	µg/L	1	0	57	53 - 130%	PASS	3	30	PASS
2-Nitroaniline	Total	0.768	1	0.05	0.1	µg/L	1	0	77	69 - 114%	PASS	11	30	PASS
3-Nitroaniline	Total	0.684	1	0.05	0.1	µg/L	1	0	68	23 - 137%	PASS	8	30	PASS
4-Bromophenylphenyl ether	Total	0.605	1	0.05	0.1	µg/L	1	0	61	61 - 132%	PASS	5	30	PASS
4-Chloroaniline	Total	0.513	1	0.05	0.1	µg/L	1	0	51	50 - 150%	PASS	4	30	PASS
4-Chlorophenylphenyl ether	Total	0.407	1	0.05	0.1	µg/L	0.5	0	81	63 - 130%	PASS	4	30	PASS
4-Nitroaniline	Total	1.11	1	0.05	0.1	µg/L	1	0	111	10 - 159%	PASS	21	30	PASS
Aniline	Total	0.381	1	0.05	0.1	µg/L	0.5	0	76	50 - 150%	PASS	0	30	PASS
Benzidine	Total	0.764	1	0.05	0.1	µg/L	1	0	76	0 - 125%	PASS	3	30	PASS
Bis(2-Chloroethoxy) methane	Total	0.703	1	0.05	0.1	µg/L	1	0	70	66 - 122%	PASS	3	30	PASS
Bis(2-Chloroethyl) ether	Total	0.481	1	0.05	0.1	µg/L	1	0	48	43 - 127%	PASS	0	30	PASS
Bis(2-Chloroisopropyl) ether	Total	0.555	1	0.05	0.1	µg/L	1	0	56	49 - 128%	PASS	4	30	PASS
Dibenzofuran	Total	0.389	1	0.05	0.1	µg/L	0.5	0	78	50 - 150%	PASS	4	30	PASS
Disalicylidenepropanediamin	Total	0.437	1	0.05	0.1	µg/L	0.5	0	87	50 - 150%	PASS	2	30	PASS
Hexachloroethane	Total	0.856	1	0.05	0.1	µg/L	1	0	86	27 - 130%	PASS	2	30	PASS
Nitrobenzene	Total	0.55	1	0.05	0.1	µg/L	1	0	55	54 - 111%	PASS	5	30	PASS
N-Nitrosodi-n-propylamine	Total	0.684	1	0.05	0.1	µg/L	1	0	68	61 - 152%	PASS	8	30	PASS
N-Nitrosodiphenylamine	Total	0.584	1	0.05	0.1	µg/L	1	0	58	49 - 142%	PASS	3	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: 95397-MS1	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**	
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22	
2-Chloronaphthalene	Total	0.36	1	0.05	0.1	µg/L	1	0	36	30 - 108%		PASS	
2-Nitroaniline	Total	0.667	1	0.05	0.1	µg/L	1	0	67	40 - 136%		PASS	
3-Nitroaniline	Total	0.584	1	0.05	0.1	µg/L	1	0	58	0 - 143%		PASS	
4-Bromophenylphenyl ether	Total	0.501	1	0.05	0.1	µg/L	1	0	50	50 - 150%		PASS	
4-Chloroaniline	Total	0.501	1	0.05	0.1	µg/L	1	0	50	21 - 144%		PASS	
4-Chlorophenylphenyl ether	Total	0.395	1	0.05	0.1	µg/L	0.5	0	79	50 - 150%		PASS	
4-Nitroaniline	Total	0.871	1	0.05	0.1	µg/L	1	0	87	10 - 154%		PASS	
Aniline	Total	0.325	1	0.05	0.1	µg/L	0.5	0	65	50 - 150%		PASS	
Benzidine	Total	0.745	1	0.05	0.1	µg/L	1	0	75	0 - 125%		PASS	
Bis(2-Chloroethoxy) methane	Total	0.39	1	0.05	0.1	µg/L	1	0	39	25 - 119%		PASS	
Bis(2-Chloroethyl) ether	Total	0.325	1	0.05	0.1	µg/L	1	0	32	14 - 110%		PASS	
Bis(2-Chloroisopropyl) ether	Total	1.32	1	0.05	0.1	µg/L	1	0	132	0 - 138%		PASS	
Dibenzofuran	Total	0.378	1	0.05	0.1	µg/L	0.5	0	76	48 - 103%		PASS	
Disalicylidenepropanediamin	Total	0.501	1	0.05	0.1	µg/L	0.5	0	100	50 - 150%		PASS	
Hexachloroethane	Total	0.864	1	0.05	0.1	µg/L	1	0	86	0 - 94%		PASS	
Nitrobenzene	Total	0.352	1	0.05	0.1	µg/L	1	0	35	4 - 116%		PASS	
N-Nitrosodi-n-propylamine	Total	0.419	1	0.05	0.1	µg/L	1	0	42	0 - 164%		PASS	
N-Nitrosodiphenylamine	Total	0.585	1	0.05	0.1	µg/L	1	0	58	52 - 112%		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: 95397-MS2	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**		
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
2-Chloronaphthalene	Total	0.333	1	0.05	0.1	µg/L	1	0	33	30 - 108%	PASS	9	30	PASS
2-Nitroaniline	Total	0.654	1	0.05	0.1	µg/L	1	0	65	40 - 136%	PASS	3	30	PASS
3-Nitroaniline	Total	0.619	1	0.05	0.1	µg/L	1	0	62	0 - 143%	PASS	7	30	PASS
4-Bromophenylphenyl ether	Total	0.575	1	0.05	0.1	µg/L	1	0	57	50 - 150%	PASS	15	30	PASS
4-Chloroaniline	Total	0.462	1	0.05	0.1	µg/L	1	0	46	21 - 144%	PASS	8	30	PASS
4-Chlorophenylphenyl ether	Total	0.367	1	0.05	0.1	µg/L	0.5	0	73	50 - 150%	PASS	8	30	PASS
4-Nitroaniline	Total	0.924	1	0.05	0.1	µg/L	1	0	92	10 - 154%	PASS	6	30	PASS
Aniline	Total	0.305	1	0.05	0.1	µg/L	0.5	0	61	50 - 150%	PASS	6	30	PASS
Benzidine	Total	0.706	1	0.05	0.1	µg/L	1	0	71	0 - 125%	PASS	4	30	PASS
Bis(2-Chloroethoxy) methane	Total	0.359	1	0.05	0.1	µg/L	1	0	36	25 - 119%	PASS	8	30	PASS
Bis(2-Chloroethyl) ether	Total	0.305	1	0.05	0.1	µg/L	1	0	31	14 - 110%	PASS	6	30	PASS
Bis(2-Chloroisopropyl) ether	Total	1.36	1	0.05	0.1	µg/L	1	0	136	0 - 138%	PASS	3	30	PASS
Dibenzofuran	Total	0.355	1	0.05	0.1	µg/L	0.5	0	71	48 - 103%	PASS	7	30	PASS
Disalicylidenepropanediamin	Total	0.536	1	0.05	0.1	µg/L	0.5	0	107	50 - 150%	PASS	7	30	PASS
Hexachloroethane	Total	0.824	1	0.05	0.1	µg/L	1	0	82	0 - 94%	PASS	5	30	PASS
Nitrobenzene	Total	0.334	1	0.05	0.1	µg/L	1	0	33	4 - 116%	PASS	6	30	PASS
N-Nitrosodi-n-propylamine	Total	0.411	1	0.05	0.1	µg/L	1	0	41	0 - 164%	PASS	2	30	PASS
N-Nitrosodiphenylamine	Total	0.558	1	0.05	0.1	µg/L	1	0	56	52 - 112%	PASS	4	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: 95397-R2	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**	
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22	
2-Chloronaphthalene	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
2-Nitroaniline	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
3-Nitroaniline	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
4-Bromophenylphenyl ether	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
4-Chloroaniline	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
4-Chlorophenylphenyl ether	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
4-Nitroaniline	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Aniline	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Benzidine	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Bis(2-Chloroethoxy) methane	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Bis(2-Chloroethyl) ether	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Bis(2-Chloroisopropyl) ether	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Dibenzofuran	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Disalicylidenepropanediamin	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Hexachloroethane	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
Nitrobenzene	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
N-Nitrosodi-n-propylamine	Total	ND	1	0.05	0.1	µg/L					0	30	PASS
N-Nitrosodiphenylamine	Total	ND	1	0.05	0.1	µg/L					0	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: 95396-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 16-Mar-22	
(d10-Acenaphthene)	Total	74	1			% Recovery	100	74		65 - 113%		PASS	
(d10-Phenanthrene)	Total	84	1			% Recovery	100	84		80 - 111%		PASS	
(d12-Chrysene)	Total	76	1			% Recovery	100	76		60 - 139%		PASS	
(d12-Perylene)	Total	92	1			% Recovery	100	92		36 - 161%		PASS	
(d8-Naphthalene)	Total	52	1			% Recovery	100	52		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: 95396-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
		Method: EPA 625.1				Batch ID: O-35086			Prepared: 22-Feb-22			Analyzed: 16-Mar-22	
(d10-Acenaphthene)	Total	73	1			% Recovery	100	0	73	65 - 113%	PASS		
(d10-Phenanthrene)	Total	82	1			% Recovery	100	0	82	80 - 111%	PASS		
(d12-Chrysene)	Total	81	1			% Recovery	100	0	81	60 - 139%	PASS		
(d12-Perylene)	Total	85	1			% Recovery	100	0	85	36 - 161%	PASS		
(d8-Naphthalene)	Total	61	1			% Recovery	100	0	61	44 - 119%	PASS		
1-Methylnaphthalene	Total	0.303	1	0.001	0.005	µg/L	0.5	0	61	49 - 117%	PASS		
1-Methylphenanthrene	Total	0.454	1	0.001	0.005	µg/L	0.5	0	91	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	0.541	1	0.001	0.005	µg/L	0.5	0	108	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	0.406	1	0.001	0.005	µg/L	0.5	0	81	54 - 117%	PASS		
2-Methylnaphthalene	Total	0.317	1	0.001	0.005	µg/L	0.5	0	63	47 - 130%	PASS		
Acenaphthene	Total	0.332	1	0.001	0.005	µg/L	0.5	0	66	53 - 131%	PASS		
Acenaphthylene	Total	0.352	1	0.001	0.005	µg/L	0.5	0	70	43 - 140%	PASS		
Anthracene	Total	0.322	1	0.001	0.005	µg/L	0.5	0	64	58 - 135%	PASS		
Benz[a]anthracene	Total	0.448	1	0.001	0.005	µg/L	0.5	0	90	55 - 145%	PASS		
Benzo[a]pyrene	Total	0.438	1	0.001	0.005	µg/L	0.5	0	88	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	0.508	1	0.001	0.005	µg/L	0.5	0	102	46 - 165%	PASS		
Benzo[e]pyrene	Total	0.358	1	0.001	0.005	µg/L	0.5	0	72	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	0.411	1	0.001	0.005	µg/L	0.5	0	82	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	0.547	1	0.001	0.005	µg/L	0.5	0	109	56 - 145%	PASS		
Biphenyl	Total	0.306	1	0.001	0.005	µg/L	0.5	0	61	56 - 119%	PASS		
Chrysene	Total	0.529	1	0.001	0.005	µg/L	0.5	0	106	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	0.457	1	0.001	0.005	µg/L	0.5	0	91	55 - 150%	PASS		
Dibenzo[a,l]pyrene	Total	1.75	1	0.001	0.005	µg/L	2	0	88	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	0.503	1	0.001	0.005	µg/L	0.5	0	101	75 - 113%	PASS			
Fluoranthene	Total	0.496	1	0.001	0.005	µg/L	0.5	0	99	60 - 146%	PASS			
Fluorene	Total	0.473	1	0.001	0.005	µg/L	0.5	0	95	58 - 131%	PASS			
Indeno[1,2,3-cd]pyrene	Total	0.411	1	0.001	0.005	µg/L	0.5	0	82	50 - 151%	PASS			
Naphthalene	Total	0.298	1	0.001	0.005	µg/L	0.5	0	60	41 - 126%	PASS			
Perylene	Total	0.438	1	0.001	0.005	µg/L	0.5	0	88	48 - 141%	PASS			
Phenanthrene	Total	0.437	1	0.001	0.005	µg/L	0.5	0	87	67 - 127%	PASS			
Pyrene	Total	0.552	1	0.001	0.005	µg/L	0.5	0	110	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: 95396-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
		Method: EPA 625.1				Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
(d10-Acenaphthene)	Total	66	1			% Recovery	100	0	66	65 - 113%	PASS	10	30	PASS
(d10-Phenanthrene)	Total	86	1			% Recovery	100	0	86	80 - 111%	PASS	5	30	PASS
(d12-Chrysene)	Total	69	1			% Recovery	100	0	69	60 - 139%	PASS	16	30	PASS
(d12-Perylene)	Total	92	1			% Recovery	100	0	92	36 - 161%	PASS	8	30	PASS
(d8-Naphthalene)	Total	55	1			% Recovery	100	0	55	44 - 119%	PASS	10	30	PASS
1-Methylnaphthalene	Total	0.271	1	0.001	0.005	µg/L	0.5	0	54	49 - 117%	PASS	12	30	PASS
1-Methylphenanthrene	Total	0.611	1	0.001	0.005	µg/L	0.5	0	122	66 - 127%	PASS	29	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.576	1	0.001	0.005	µg/L	0.5	0	115	57 - 120%	PASS	6	30	PASS
2,6-Dimethylnaphthalene	Total	0.372	1	0.001	0.005	µg/L	0.5	0	74	54 - 117%	PASS	9	30	PASS
2-Methylnaphthalene	Total	0.32	1	0.001	0.005	µg/L	0.5	0	64	47 - 130%	PASS	2	30	PASS
Acenaphthene	Total	0.328	1	0.001	0.005	µg/L	0.5	0	66	53 - 131%	PASS	0	30	PASS
Acenaphthylene	Total	0.342	1	0.001	0.005	µg/L	0.5	0	68	43 - 140%	PASS	3	30	PASS
Anthracene	Total	0.333	1	0.001	0.005	µg/L	0.5	0	67	58 - 135%	PASS	5	30	PASS
Benz[a]anthracene	Total	0.512	1	0.001	0.005	µg/L	0.5	0	102	55 - 145%	PASS	12	30	PASS
Benzo[a]pyrene	Total	0.412	1	0.001	0.005	µg/L	0.5	0	82	51 - 143%	PASS	7	30	PASS
Benzo[b]fluoranthene	Total	0.456	1	0.001	0.005	µg/L	0.5	0	91	46 - 165%	PASS	11	30	PASS
Benzo[e]pyrene	Total	0.334	1	0.001	0.005	µg/L	0.5	0	67	42 - 152%	PASS	7	30	PASS
Benzo[g,h,i]perylene	Total	0.414	1	0.001	0.005	µg/L	0.5	0	83	63 - 133%	PASS	1	30	PASS
Benzo[k]fluoranthene	Total	0.497	1	0.001	0.005	µg/L	0.5	0	99	56 - 145%	PASS	10	30	PASS
Biphenyl	Total	0.343	1	0.001	0.005	µg/L	0.5	0	69	56 - 119%	PASS	12	30	PASS
Chrysene	Total	0.552	1	0.001	0.005	µg/L	0.5	0	110	56 - 141%	PASS	4	30	PASS
Dibenz[a,h]anthracene	Total	0.47	1	0.001	0.005	µg/L	0.5	0	94	55 - 150%	PASS	3	30	PASS
Dibenzo[a,l]pyrene	Total	1.65	1	0.001	0.005	µg/L	2	0	82	50 - 150%	PASS	7	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	0.472	1	0.001	0.005	µg/L	0.5	0	94	75 - 113%	PASS	7	30	PASS	
Fluoranthene	Total	0.45	1	0.001	0.005	µg/L	0.5	0	90	60 - 146%	PASS	10	30	PASS	
Fluorene	Total	0.46	1	0.001	0.005	µg/L	0.5	0	92	58 - 131%	PASS	3	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	0.45	1	0.001	0.005	µg/L	0.5	0	90	50 - 151%	PASS	9	30	PASS	
Naphthalene	Total	0.307	1	0.001	0.005	µg/L	0.5	0	61	41 - 126%	PASS	2	30	PASS	
Perylene	Total	0.412	1	0.001	0.005	µg/L	0.5	0	82	48 - 141%	PASS	7	30	PASS	
Phenanthrene	Total	0.438	1	0.001	0.005	µg/L	0.5	0	88	67 - 127%	PASS	1	30	PASS	
Pyrene	Total	0.567	1	0.001	0.005	µg/L	0.5	0	113	54 - 156%	PASS	3	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: 95397-MS1	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**	
		Method: EPA 625.1				Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22	
(d10-Acenaphthene)	Total	52	1			% Recovery	100	0	52	45 - 118%		PASS	
(d10-Phenanthrene)	Total	82	1			% Recovery	100	0	82	56 - 123%		PASS	
(d12-Chrysene)	Total	96	1			% Recovery	100	0	96	36 - 142%		PASS	
(d12-Perylene)	Total	87	1			% Recovery	100	0	87	36 - 161%		PASS	
(d8-Naphthalene)	Total	50	1			% Recovery	100	0	50	20 - 112%		PASS	
1-Methylnaphthalene	Total	0.297	1	0.001	0.005	µg/L	0.5	0	59	39 - 104%		PASS	
1-Methylphenanthrene	Total	0.355	1	0.001	0.005	µg/L	0.5	0	71	62 - 136%		PASS	
2,3,5-Trimethylnaphthalene	Total	0.405	1	0.001	0.005	µg/L	0.5	0	81	47 - 132%		PASS	
2,6-Dimethylnaphthalene	Total	0.398	1	0.001	0.005	µg/L	0.5	0	80	37 - 118%		PASS	
2-Methylnaphthalene	Total	0.296	1	0.001	0.005	µg/L	0.5	0	59	33 - 113%		PASS	
Acenaphthene	Total	0.315	1	0.001	0.005	µg/L	0.5	0.00501	62	51 - 116%		PASS	
Acenaphthylene	Total	0.332	1	0.001	0.005	µg/L	0.5	0	66	53 - 127%		PASS	
Anthracene	Total	0.418	1	0.001	0.005	µg/L	0.5	0	84	60 - 126%		PASS	
Benz[a]anthracene	Total	0.492	1	0.001	0.005	µg/L	0.5	0	98	51 - 165%		PASS	
Benzo[a]pyrene	Total	0.439	1	0.001	0.005	µg/L	0.5	0	88	24 - 170%		PASS	
Benzo[b]fluoranthene	Total	0.429	1	0.001	0.005	µg/L	0.5	0	86	38 - 158%		PASS	
Benzo[e]pyrene	Total	0.491	1	0.001	0.005	µg/L	0.5	0	98	26 - 157%		PASS	
Benzo[g,h,i]perylene	Total	0.374	1	0.001	0.005	µg/L	0.5	0	75	57 - 133%		PASS	
Benzo[k]fluoranthene	Total	0.447	1	0.001	0.005	µg/L	0.5	0	89	27 - 167%		PASS	
Biphenyl	Total	0.3	1	0.001	0.005	µg/L	0.5	0	60	41 - 111%		PASS	
Chrysene	Total	0.508	1	0.001	0.005	µg/L	0.5	0	102	58 - 136%		PASS	
Dibenz[a,h]anthracene	Total	0.464	1	0.001	0.005	µg/L	0.5	0	93	53 - 156%		PASS	
Dibenzo[a,l]pyrene	Total	1.78	1	0.001	0.005	µg/L	2	0	89	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	0.501	1	0.001	0.005	µg/L	0.5	0	100	69 - 112%	PASS			
Fluoranthene	Total	0.513	1	0.001	0.005	µg/L	0.5	0	103	61 - 147%	PASS			
Fluorene	Total	0.356	1	0.001	0.005	µg/L	0.5	0	71	62 - 120%	PASS			
Indeno[1,2,3-cd]pyrene	Total	0.497	1	0.001	0.005	µg/L	0.5	0	99	58 - 147%	PASS			
Naphthalene	Total	0.282	1	0.001	0.005	µg/L	0.5	0	56	22 - 110%	PASS			
Perylene	Total	0.439	1	0.001	0.005	µg/L	0.5	0	88	34 - 147%	PASS			
Phenanthrene	Total	0.43	1	0.001	0.005	µg/L	0.5	0	86	64 - 121%	PASS			
Pyrene	Total	0.475	1	0.001	0.005	µg/L	0.5	0	95	65 - 146%	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: 95397-MS2	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**		
		Method: EPA 625.1				Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
(d10-Acenaphthene)	Total	67	1			% Recovery	100	0	67	45 - 118%	PASS	25	30	PASS
(d10-Phenanthrene)	Total	88	1			% Recovery	100	0	88	56 - 123%	PASS	7	30	PASS
(d12-Chrysene)	Total	93	1			% Recovery	100	0	93	36 - 142%	PASS	3	30	PASS
(d12-Perylene)	Total	88	1			% Recovery	100	0	88	36 - 161%	PASS	1	30	PASS
(d8-Naphthalene)	Total	46	1			% Recovery	100	0	46	20 - 112%	PASS	8	30	PASS
1-Methylnaphthalene	Total	0.276	1	0.001	0.005	µg/L	0.5	0	55	39 - 104%	PASS	7	30	PASS
1-Methylphenanthrene	Total	0.429	1	0.001	0.005	µg/L	0.5	0	86	62 - 136%	PASS	19	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.383	1	0.001	0.005	µg/L	0.5	0	77	47 - 132%	PASS	5	30	PASS
2,6-Dimethylnaphthalene	Total	0.377	1	0.001	0.005	µg/L	0.5	0	75	37 - 118%	PASS	6	30	PASS
2-Methylnaphthalene	Total	0.233	1	0.001	0.005	µg/L	0.5	0	47	33 - 113%	PASS	23	30	PASS
Acenaphthene	Total	0.349	1	0.001	0.005	µg/L	0.5	0.00501	69	51 - 116%	PASS	11	30	PASS
Acenaphthylene	Total	0.363	1	0.001	0.005	µg/L	0.5	0	73	53 - 127%	PASS	10	30	PASS
Anthracene	Total	0.467	1	0.001	0.005	µg/L	0.5	0	93	60 - 126%	PASS	10	30	PASS
Benz[a]anthracene	Total	0.464	1	0.001	0.005	µg/L	0.5	0	93	51 - 165%	PASS	5	30	PASS
Benzo[a]pyrene	Total	0.44	1	0.001	0.005	µg/L	0.5	0	88	24 - 170%	PASS	0	30	PASS
Benzo[b]fluoranthene	Total	0.477	1	0.001	0.005	µg/L	0.5	0	95	38 - 158%	PASS	10	30	PASS
Benzo[e]pyrene	Total	0.472	1	0.001	0.005	µg/L	0.5	0	94	26 - 157%	PASS	4	30	PASS
Benzo[g,h,i]perylene	Total	0.372	1	0.001	0.005	µg/L	0.5	0	74	57 - 133%	PASS	1	30	PASS
Benzo[k]fluoranthene	Total	0.49	1	0.001	0.005	µg/L	0.5	0	98	27 - 167%	PASS	10	30	PASS
Biphenyl	Total	0.278	1	0.001	0.005	µg/L	0.5	0	56	41 - 111%	PASS	7	30	PASS
Chrysene	Total	0.478	1	0.001	0.005	µg/L	0.5	0	96	58 - 136%	PASS	6	30	PASS
Dibenz[a,h]anthracene	Total	0.412	1	0.001	0.005	µg/L	0.5	0	82	53 - 156%	PASS	13	30	PASS
Dibenzo[a,l]pyrene	Total	1.73	1	0.001	0.005	µg/L	2	0	87	50 - 150%	PASS	3	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	0.483	1	0.001	0.005	µg/L	0.5	0	97	69 - 112%	PASS	3	30	PASS	
Fluoranthene	Total	0.479	1	0.001	0.005	µg/L	0.5	0	96	61 - 147%	PASS	7	30	PASS	
Fluorene	Total	0.384	1	0.001	0.005	µg/L	0.5	0	77	62 - 120%	PASS	8	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	0.517	1	0.001	0.005	µg/L	0.5	0	103	58 - 147%	PASS	4	30	PASS	
Naphthalene	Total	0.22	1	0.001	0.005	µg/L	0.5	0	44	22 - 110%	PASS	24	30	PASS	
Perylene	Total	0.44	1	0.001	0.005	µg/L	0.5	0	88	34 - 147%	PASS	0	30	PASS	
Phenanthrene	Total	0.47	1	0.001	0.005	µg/L	0.5	0	94	64 - 121%	PASS	9	30	PASS	
Pyrene	Total	0.511	1	0.001	0.005	µg/L	0.5	0	102	65 - 146%	PASS	7	30	PASS	

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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: 95397-R2	**202202160931 BWS2253-J1-AQ**					**Matrix: Samplewater**		**Sampled: 15-Feb-22 10:30**				**Received: 17-Feb-22**		
		Method: EPA 625.1				Batch ID: O-35086		Prepared: 22-Feb-22				Analyzed: 17-Mar-22		
(d10-Acenaphthene)	Total	72	1			% Recovery	100	72	45 - 118%	PASS		25	30	PASS
(d10-Phenanthrene)	Total	79	1			% Recovery	100	79	56 - 123%	PASS		17	30	PASS
(d12-Chrysene)	Total	70	1			% Recovery	100	70	36 - 142%	PASS		12	30	PASS
(d12-Perylene)	Total	82	1			% Recovery	100	82	36 - 161%	PASS		4	30	PASS
(d8-Naphthalene)	Total	41	1			% Recovery	100	41	20 - 112%	PASS		22	30	PASS
1-Methylnaphthalene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
1-Methylphenanthrene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
2,3,5-Trimethylnaphthalene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
2,6-Dimethylnaphthalene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
2-Methylnaphthalene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Acenaphthene	Total	0.00584	1	0.001	0.005	µg/L						15	30	PASS
Acenaphthylene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Anthracene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Benz[a]anthracene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Benzo[a]pyrene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Benzo[b]fluoranthene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Benzo[e]pyrene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Benzo[g,h,i]perylene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Benzo[k]fluoranthene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Biphenyl	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Chrysene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Dibenz[a,h]anthracene	Total	ND	1	0.001	0.005	µg/L						0	30	PASS
Dibenzo[a,l]pyrene	Total	ND	1	0.001	0.005	µg/L						0	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	ND	1	0.001	0.005	µg/L					0	30	PASS
Fluoranthene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS
Fluorene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS
Indeno[1,2,3-cd]pyrene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS
Naphthalene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS
Perylene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS
Phenanthrene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS
Pyrene	Total	ND	1	0.001	0.005	µg/L					0	30	PASS

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TENTATIVELY IDENTIFIED COMPOUNDS

Sample ID: 95397-R1

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Qual
33.0842	4.5899	1111	Anthracene-D10-	1517-22-2	95
21.1123	1.6354	396	2,6-Di-tert-butyl-4-hydroxy-4-methylcyclohexa-2,5-dien-1-one	10396-80-2	92
12.8867	0.9147	221	Cyclohexane, (1,2-dimethylbutyl)-	61142-37-8	92
11.1102	0.8446	204	rofuran-5-on-2-methanol, .alpha.-[.alpha.-methoxy-(tetrahydrofuran-5-on-2-ylm	1000192-28-3	84
12.0307	0.6238	151	Octane, 4,5-diethyl-	1636-41-5	93
11.6891	0.6074	147	Binapacryl	485-31-4	83
10.8770	0.5896	143	Hexane, 3-bromo-	3377-87-5	82
13.2588	0.5236	127	Cyclohexane, octyl-	1795-15-9	95

Concentration estimated using the response for Anthracene-d1(

Sample ID: 95397-R2

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Qual
33.0837	3.6496	1111	Anthracene-D10	1517-22-2	94
21.1120	1.8605	566	2,6-Di-tert-butyl-4-hydroxy-4-methylcyclohexa-2,5-dien-1-one	10396-80-2	92
12.8879	0.7037	214	Cyclohexane, (1,2-dimethylbutyl)-	61142-37-8	91
11.1103	0.6909	210	Hexane, 2-nitro-	14255-44-8	85
10.8770	0.5028	153	2H-Pyran-2-methanol, tetrahydro-	100-72-1	83
11.6887	0.4902	149	1,5-Heptadien-4-one, 3,3,6-trimethyl-	546-49-6	81
12.0303	0.4475	136	Octane, 4,5-diethyl-	1636-41-5	93
10.6362	0.4465	136	1-Hexanol, 2-ethyl-	104-76-7	97
13.2581	0.4098	125	Cyclohexane, octyl-	1795-15-9	94
11.8057	0.3801	116	Ethanol, 2-(hexyloxy)-	112-25-4	97

Concentration estimated using the response for Anthracene-d1C

Sample ID: Lab Blank B1_35086

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Qual
33.0953	3.2674	1111	Anthracene-D10-	1517-22-2	95
89.2158	1.3996	476	DL-2,3-Butanediol	6982-25-8	99
89.2235	0.8282	282	1H-Tetrazol-5-amine	4418-61-5	81
11.1123	0.5627	191	Hexane, 2-nitro-	14255-44-8	86
12.8885	0.5255	179	Cyclohexane, (1,2-dimethylbutyl)-	61142-37-8	90
11.6244	0.4608	157	2,6-Octadiene, 2,4-dimethyl-	63843-03-8	81
10.8796	0.4555	155	2H-Pyran-2-methanol, tetrahydro-	100-72-1	81
12.0319	0.3917	133	Octane, 4,5-diethyl-	1636-41-5	94
11.6923	0.3470	118	1,5-Heptadien-4-one, 3,3,6-trimethyl-	546-49-6	84
25.5174	0.3115	106	Diethyl Phthalate	84-66-2	97

Concentration estimated using the response for Anthracene-d10

CHAIN OF CUSTODY

eurofins | Eaton Analytical

Submittal Form

Date: 2/17/2022

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

Anaheim, CA 92806-6028

Phone: 714-602-5320 Fax:

Folder #: 987883
Report Due: 02/21/2022

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder # **987883** 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**

2-3 day rush

Sample ID	Client Sample ID for reference on!	Sample Date & Time	Matrix	Clip Code	PWSID
202202160931	BWS2253-J1-AQ	02/15/22 1030	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 2/17/22 Time 1341

Received by: _____ Date 2/17/22 Time 1341

Relinquished by: _____ Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

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

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

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Project Iteration ID: 1407003-220
Client Name: Eurofins Eaton Analytical
Project Name: Folder # 987883 Job # 1000014
COC Page Number: 2 of 2
Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: MN
2. Date Received: 2/17/22
3. Time Received: 1341
4. Client Name: Eurofins
5. Courier Information: (Please circle)
   - (Client) • UPS • Area Fast • DRS
   - FedEx • GSO/GLS • Ontrac • PAMS
   - PHYSIS Driver:
     - i. Start Time:_____ iii. Total Mileage: _____
     - ii. End Time:_____ iv. Number of Pickups:_____
6. Container Information: (Please put the # of containers or circle none)
   - 1 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): 3.4 Used I/R Thermometer # 1-2

Inspection Info

1. Initials Inspected By: RGH

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:

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Eaton South Bend
110 S Hill Street
South Bend, IN 46617
Tel: (574)233-4777

Laboratory Job ID: 810-15561-1
Client Project/Site: 987883

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, California 91016

Attn: Jaclyn Contreras

Authorized for release by:
2/25/2022 4:46:10 PM
Neely Davis, Project Manager
(574)233-4777
neely.davis@eurofinset.com

Designee for

Karen Fullmer, Project Manager
(574)233-4777
karen.fullmer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Job ID: 810-15561-1

Laboratory: Eurofins Eaton South Bend

Narrative

Job Narrative
810-15561-1

Comments
No additional comments.

Receipt
The sample was received on 2/21/2022 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Client Sample ID: 202202160931

Lab Sample ID: 810-15561-1

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Client Sample ID: 202202160931
Date Collected: 02/15/22 10:30
Date Received: 02/21/22 08:30

Lab Sample ID: 810-15561-1
Matrix: Drinking Water

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.10		ug/L		02/24/22 12:58	02/24/22 19:33	1

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 810-13604/1-A
Matrix: Drinking Water
Analysis Batch: 13645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13604

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.10		ug/L		02/24/22 12:58	02/24/22 19:06	1

Lab Sample ID: LCS 810-13604/3-A
Matrix: Drinking Water
Analysis Batch: 13645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			1.00	1.07		ug/L		107	85 - 115		

Lab Sample ID: LLCS 810-13604/2-A
Matrix: Drinking Water
Analysis Batch: 13645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13604

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.100	0.130		ug/L		130	50 - 150		

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Metals

Prep Batch: 13604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-15561-1	202202160931	Total/NA	Drinking Water	245.1	
MB 810-13604/1-A	Method Blank	Total/NA	Drinking Water	245.1	
LCS 810-13604/3-A	Lab Control Sample	Total/NA	Drinking Water	245.1	
LLCS 810-13604/2-A	Lab Control Sample	Total/NA	Drinking Water	245.1	

Analysis Batch: 13645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-15561-1	202202160931	Total/NA	Drinking Water	245.1	13604
MB 810-13604/1-A	Method Blank	Total/NA	Drinking Water	245.1	13604
LCS 810-13604/3-A	Lab Control Sample	Total/NA	Drinking Water	245.1	13604
LLCS 810-13604/2-A	Lab Control Sample	Total/NA	Drinking Water	245.1	13604

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Client Sample ID: 202202160931
Date Collected: 02/15/22 10:30
Date Received: 02/21/22 08:30

Lab Sample ID: 810-15561-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			13604	02/24/22 12:58	AC	EA SB
Total/NA	Analysis	245.1		1	13645	02/24/22 19:33	AC	EA SB

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Laboratory: Eurofins Eaton South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	IN035	06-30-22

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Method	Method Description	Protocol	Laboratory
245.1	Mercury (CVAA)	EPA	EA SB
245.1	Preparation, Mercury	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: 987883

Job ID: 810-15561-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-15561-1	202202160931	Drinking Water	02/15/22 10:30	02/21/22 08:30

eurofins | Eaton Analytical

Submittal Form

Date: 2/17/2022

Ship To:
`Eurofins Eaton Analytical
110 South Hill Street

South Bend, IN 46617-2702

Phone: 800-332-4345 Fax: 574-233-8207

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder # 987883 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

Folder #: 987883 **Report Due:** 02/21/2022

810-15561 Chain of Custody

Sample ID	Client Sample ID for reference onl	Sample	Date & Time	Matrix	Clip Code	PWSID
202202160931	BWS2253-J1-AQ		02/15/22 1030	DW		JLS

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

Method	Prep Method	Analysis Requested
EPA 245.1	EPA 245.1	Mercury by 245.1 Subbed (1) 250mL

pH Acceptable

Client Provided Sample Container

0°c

Relinquished by: _____ Sample Control G.REITNER Date 02.17.22 Time 10:40 NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

Received by: _____ Date 2.21.22 Time 0830 An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Relinquished by: _____ Sample Control _____ Date _____ Time _____

Received by: _____ Date _____ Time _____

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 810-15561-1

Login Number: 15561
List Number: 1
Creator: Spurgeon, Sheri

List Source: Eurofins Eaton South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers