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)

A2LA ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

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

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Date of Issue
04/06/2022

Linda Geddes
EUROFINS EATON ANALYTICAL, LLC

Report: 992221
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 #: 992221
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 **March 10, 2022** at **0950**. 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
202203100633	DH43-AQ D2	03/09/2022 1200

@625A_Physis	@625BN_Physis	@625PAH_Physis_TICS
@VOASDWA plus plus TICS	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil

Sample #	Sample ID	Sample Date
202203100634	DH43-TB	03/09/2022 1200

@VOASDWA plus plus TICS TB	(SUB)Gas Fraction Hydrocarbons

Test Description

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

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

@625PAH_Physis_TICS -- 625PAH in ug/L

@VOASDWA plus plus TICS -- Volatile Organics by GCMS

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

992221

b6an031022

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CHAIN OF CUSTODY RE

EUROF01 C: 3/14/2022 12:00 AM
FOLDER R: 3/10/2022
N049772-003A 1 of 1

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:

LOGIN COMMENTS: _____ **SAMPL**

2.9°C /

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 2.8°C ID#3 **SAMPLES REC'D DAY OF COLLECTION?** ☐ (check for yes)

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

☐ Monrovia _____ °C (Compliance: 4 ± 2 °C)

5391 / Fed# 5369

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: RUSH STD __ 1 wk ___ 3 day __X_ 2 day ___ 1 day ___

(check for yes) **COMPLIANCE SAMPLES** ☐ - Requires state forms ☐

(check for yes) **NON-COMPLIANCE SAMPLES** ☒ 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_ea-C44_Assets	@ 624_Physis @ 625	8015 Gas Travel Blank	@ 624 DN_Physis	8015 Gas	@ VOA SDWA +TVB	@ VOA SDWA ++ TVB +TB	SAMPLER COMMENTS
														314313
3/1/22	new		DH43-AQ 02	RGW				4		2	4	4		kit# ~~302592~~
			DH43-TB	BW					2				3	Provided by EEA
			[Bottle Size											

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

* **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	3/7/22	1200
RELINQUISHED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	3/9/22	1425
RECEIVED BY:		Guille Jaime	ASSET LABS	3/10/22	0950
RELINQUISHED BY:					
RECEIVED BY:					

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

Created Date & Time: 3/3/2022 2:49:51PM

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

Note: Sampler Please return this paper with your samples

Kit #: 314313

Created By: Debbie L Frank - [DEB]
Deliver By: 03/07/2022
STG: Bottle Orders
Ice Type: W

Client ID: HONOLULU
Project Code: INTERA Bottle Orders
Group Name: RUSH Incident Follow-up TPH (2021)
PO#/JOB#: C20525101 exp 05312023
Description: Follow-Up ASSET DH-43, Well No.

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 #

Shipping pack in 3 sets, 2 coolers for each sample set = Total 6 coolers

625s, VOASDWA, VOAsdwa TB : 1 (AQ) 1 (TB) per cooler - 3 sets, each in its own cooler

8015 gas, Gas TB, TPH 1 (AQ) 1 TB per cooler - 1 (AQ) 1 (TB) per cooler - 3 sets, each in its own cooler

Sampler
ship VOA, 625 to EEA-Monrovia Lab - address on KO
ship 8105s to ASSET lab in Las Vegas

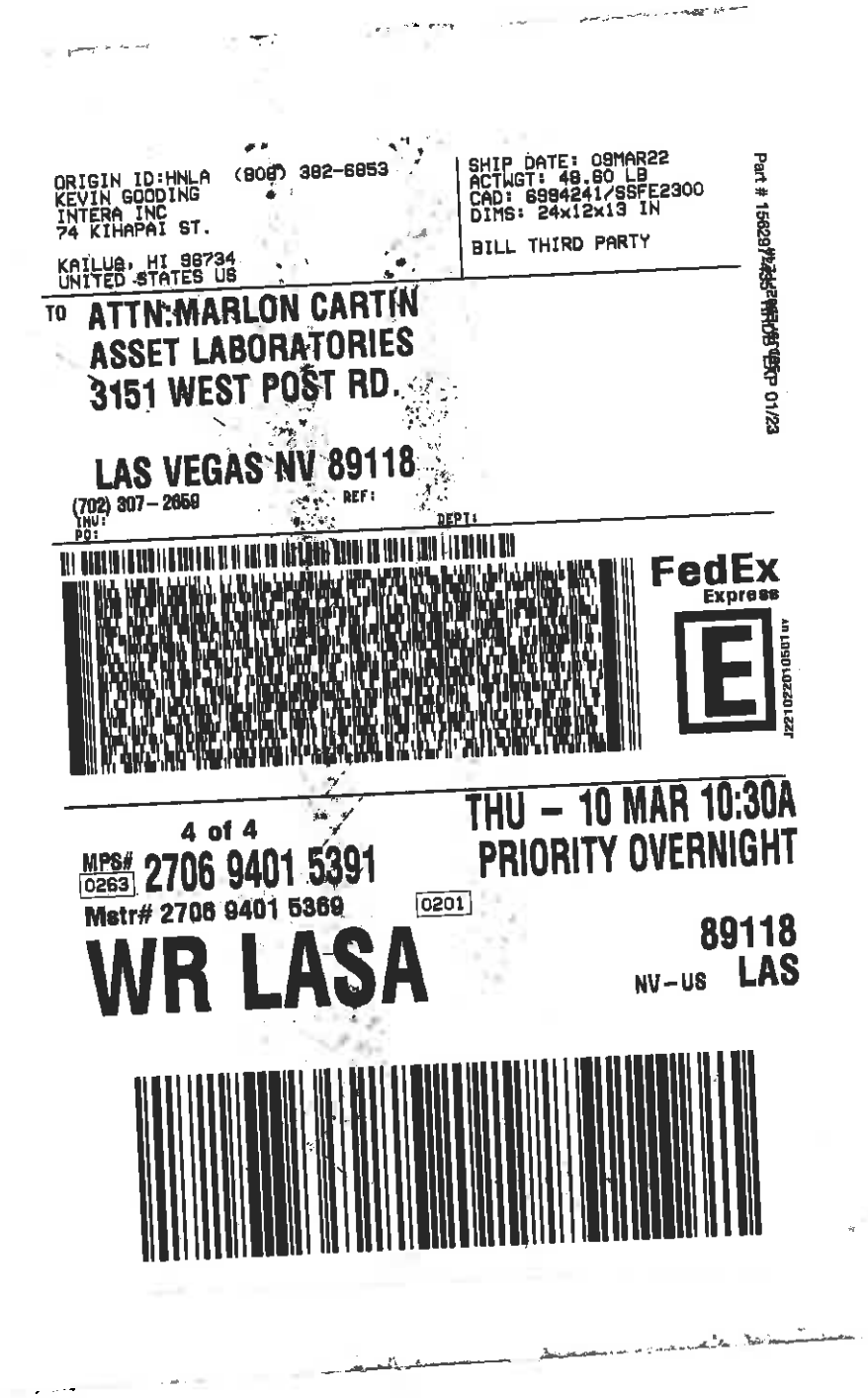
Testing - MRL reporting, no individual Cs
8015 C8-C44 extractable DRO, ORO
8015 C6-C10 purgeable (GRO)

Sampler - RUSH testing Ship direct to the 8015 testing lab. with note on the COC to Bill and report to EEA-monrovia

Asset Labs
Sample receiving
ASSET Laboratories
3151 W. Post Road,
Las Vegas, NV 89118
702.307.2659
Marlon Cartin
Sr. Project Manager
www.assetlaboratories.com
Email: marlon@assetlaboratories.com
P: 702.307.2659 Ext. 410 I F: 702.307.2691 I M: 702.439.0421

Include KO with COC

Cooler	Date Shipped	Via	Tracking #	# of Coolers	Prepared By



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

KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 09MAR22
ACTWGT: 48.80 LB
CAD: 6994241/SSFE2300
DIMS: 24x12x13 IN

BILL THIRD PARTY

Part # 158291-XXXXX-XXXXX-XXX EXP 01/23

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

LAS VEGAS NV 89118
(702) 307-2659 REF:
INV: DEPT:
PO:

FedEx Express

JP2102201221ZZT

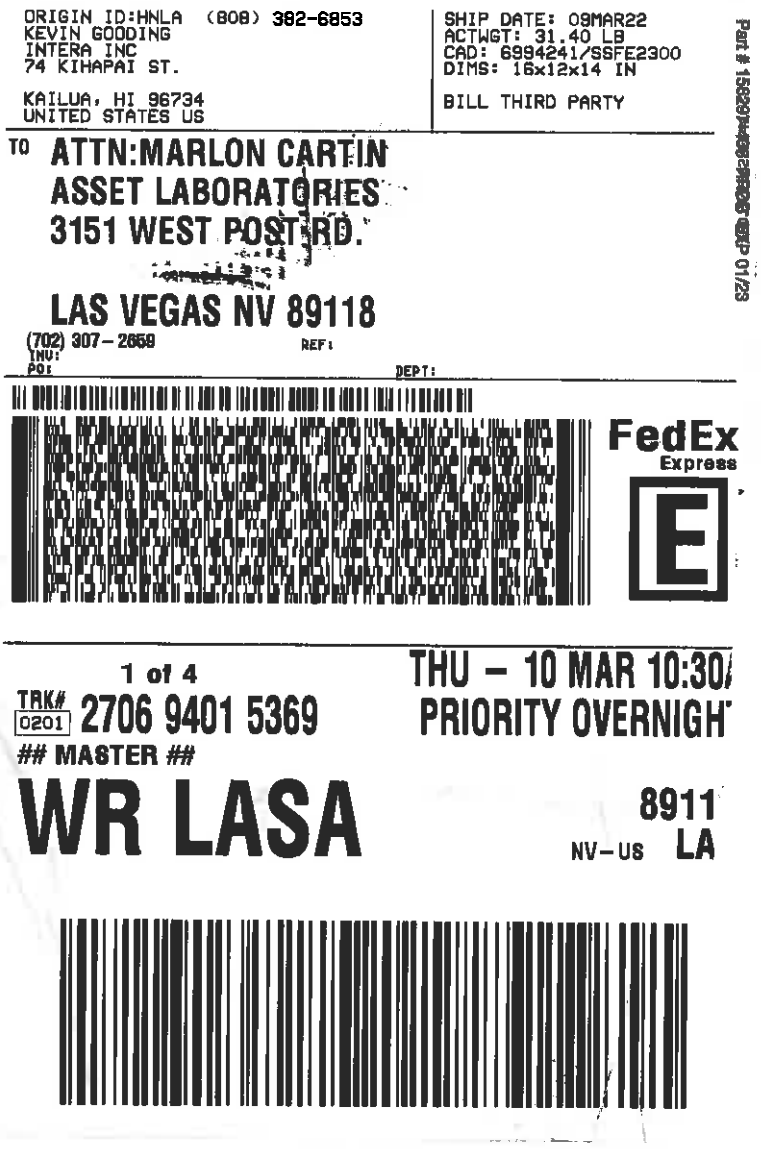
4 of 4
MPS# 2706 9401 5391
0263
Mstr# 2706 9401 5369
0201

THU - 10 MAR 10:30A
PRIORITY OVERNIGHT

89118
NV-US LAS

WR LASA

2.9°C ID#3



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

KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 09MAR22
ACTWGT: 31.40 LB
CAD: 6994241/SSFE2300
DIMS: 16x12x14 IN

BILL THIRD PARTY

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

LAS VEGAS NV 89118
(702) 307-2659 REF:
INV:
PO: DEPT:

FedEx Express

1 of 4

THU - 10 MAR 10:30
PRIORITY OVERNIGH

TRK# 0201 2706 9401 5369

MASTER

WR LASA

8911
NV-US LA

2.8°C IK#3

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Report: 992221
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Honolulu Board of Water Supply
Erwin Kawata
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Folder Comments

Results for TPH 8015 Diesel and Motor Oil and Gasoline are submitted by Asset Laboratories Las Vegas, NV 89118 ELAP Cert 2676,NV Cert NV00922, ORELAP/NELAP Cert 4046
Results for 625 PAHs, BNA and Acids are submitted by Physis Environmental Laboratoires, Inc.

EEA enters Subcontractor data into EEA system for archive tracking purposes. Please review Subcontract lab report for QC data and Qualifiers that are applicable to the reported data. Significant figures may vary due to system limitations. Please review Subcontractor's report in full.

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

Tentatively identified compounds (TICs) are non-target compounds, which have been subjected to mass spectral library searches for tentative identifications. Unknown compounds are non-target compounds whose mass spectra do not adequately match the mass spectra from the mass spectral library searches for tentative identifications and are reported as unknown.

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

202203100633	524.2	TICs		
Compound Name		Estimated Retention Time		Estimated Concentration
Hexanal		8.53 minutes		1.23 ug/L
Unknown hydrocarbon		12.87 minutes		0.87 ug/L
202203100634	524.2	TICs	None Detected	

Flags Legend:

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.
VC - CCV is high biased, ND data are reportable as per TNI V1M4 1.7.2.e).i.

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

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

Laboratory Hits

Report: 992221
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:
03/10/2022 0950

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
	202203100633	**DH43-AQ D2**				
03/16/2022 16:08	Acetone		12		ug/L	10
03/16/2022 00:00	Benz(a)Anthracene		0.0216		ug/L	0.005
03/16/2022 00:00	Benzo(e)pyrene		0.156		ug/L	0.005
03/16/2022 00:00	Benzo(g,h,i)perylene		0.192		ug/L	0.005
03/16/2022 00:00	Chrysene		0.0695		ug/L	0.005
03/16/2022 00:00	Fluoranthene		0.0153		ug/L	0.005
03/16/2022 00:00	Indeno(1,2,3,c,d)Pyrene		0.104		ug/L	0.005
03/16/2022 00:00	Pyrene		0.0158		ug/L	0.005
03/14/2022 11:02	TPH Diesel		1700		ug/L	50
03/14/2022 11:02	TPH Motor Oil		130		ug/L	50

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data

Report: 992221
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:
03/10/2022 0950

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
DH43-AQ D2 (202203100633)							**Sampled on 03/09/2022 1200**		
				SW 8015B - (SUB)Gas Fraction Hydrocarbons					
03/10/22	03/10/22 09:06			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
				SW 8015B - TPH 8015 Diesel and Motor Oil					
03/14/22	03/14/22 11:02			(SW 8015B)	TPH Diesel	1700	ug/L	50	1
03/14/22	03/14/22 11:02			(SW 8015B)	TPH Motor Oil	130	ug/L	50	1
				EPA 625 - 625PAH in ug/L					
03/16/22	03/16/22 00:00			(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Acenaphthene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Anthracene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Benz(a)Anthracene	0.0216	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Benzo(e)pyrene	0.156	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Benzo(g,h,i)perylene	0.192	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Chrysene	0.0695	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Fluoranthene	0.0153	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	0.104	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	1
03/16/22	03/16/22 00:00			(EPA 625)	Pyrene	0.0158	ug/L	0.005	1
				EPA 625 - 625 Acid Extractable in ug/L					
03/11/22	03/16/22 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1

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Laboratory Data

Report: 992221
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:
03/10/2022 0950

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/11/22	03/16/22 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Benzoic acid	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1
03/11/22	03/16/22 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
	EPA 625 - 625 Base Neutral Extractable in ug/L								
03/11/22	03/16/22 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
03/11/22	03/16/22 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1

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Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
			EPA 524.2 - Volatile Organics by GCMS						
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Acetone	12	ug/L	10	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Bromoethane	ND (LK)	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Carbon disulfide	ND (VC)	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1

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Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Dichlorodifluoromethane	ND (VC)	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	1,2-Dichloroethane-d4	111	%		1
03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	4-Bromofluorobenzene	90	%		1

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03/16/22	03/16/22 16:08	1394302	1394305	(EPA 524.2)	Toluene-d8	86	%		1
DH43-TB (202203100634)							**Sampled on 03/09/2022 1200**		
				SW 8015B - (SUB)Gas Fraction Hydrocarbons					
03/10/22	03/10/22 09:36			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
				EPA 524.2 - Volatile Organics by GCMS					
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	2-Hexanone	ND	ug/L	10	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Acetone	ND	ug/L	10	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Bromoethane	ND (LK)	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Carbon disulfide	ND (VC)	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.50	1

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1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 992221
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:
03/10/2022 0950

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Dichlorodifluoromethane	ND (VC)	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Total THM	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1

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Honolulu Board of Water Supply
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Samples Received on:
03/10/2022 0950

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	1,2-Dichloroethane-d4	115	%		1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	4-Bromofluorobenzene	99	%		1
03/16/22	03/16/22 16:31	1394302	1394305	(EPA 524.2)	Toluene-d8	85	%		1

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Volatile Organics by GCMS

Prep Batch: 1394302 **Analytical Batch: 1394305** **Analysis Date: 03/16/2022**

202203100633	DH43-AQ D2	Analyzed by: TG9W
202203100634	DH43-TB	Analyzed by: TG9W

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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: 1394305						**Analysis Date: 03/16/2022**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	5.12	ug/L	102	(70-130)	20	6.5
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.41	ug/L	88	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.56	ug/L	91	(70-130)	20	3.3
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	4.68	ug/L	94	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.88	ug/L	98	(70-130)	20	4.2
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1,2-Trichloroethane		5	4.41	ug/L	88	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.43	ug/L	89	(70-130)	20	0.45
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,1-Dichloroethane		5	5.30	ug/L	106	(70-130)		
LCS2	1,1-Dichloroethane		5	5.68	ug/L	114	(70-130)	20	6.9
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.09	ug/L	102	(70-130)		
LCS2	1,1-Dichloroethylene		5	5.34	ug/L	107	(70-130)	20	4.8
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	4.40	ug/L	88	(70-130)		
LCS2	1,1-Dichloropropene		5	4.98	ug/L	100	(70-130)	20	12
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.70	ug/L	94	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	5.04	ug/L	101	(70-130)	20	7.0
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2,3-Trichloropropane		5	4.47	ug/L	89	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.64	ug/L	93	(70-130)	20	3.7
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				

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

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Laboratory QC

Report: 992221
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	1,2,3-Trichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.64	ug/L	93	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.08	ug/L	102	(70-130)	20	9.1
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	4.44	ug/L	89	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.88	ug/L	98	(70-130)	20	9.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,2-Dichloroethane		5	4.96	ug/L	99	(70-130)		
LCS2	1,2-Dichloroethane		5	5.04	ug/L	101	(70-130)	20	1.6
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	99.4	%	99	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	105	%	105	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			113	%	113	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	109	%	109	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)		5	106	%	106	(70-130)		
LCS1	1,2-Dichloropropane		5	4.79	ug/L	96	(70-130)		
LCS2	1,2-Dichloropropane		5	5.10	ug/L	102	(70-130)	20	6.3
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	4.53	ug/L	91	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.01	ug/L	100	(70-130)	20	10
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.330	ug/L	66	(50-150)		
LCS1	1,3-Dichloropropane		5	4.36	ug/L	87	(70-130)		
LCS2	1,3-Dichloropropane		5	4.77	ug/L	95	(70-130)	20	9.0
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
LCS1	2,2-Dichloropropane		5	5.18	ug/L	104	(70-130)		
LCS2	2,2-Dichloropropane		5	5.42	ug/L	108	(70-130)	20	4.5
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
LCS1	2-Butanone (MEK)		50	48.9	ug/L	98	(70-130)		
LCS2	2-Butanone (MEK)		50	52.2	ug/L	104	(70-130)	20	6.5
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	6.00	ug/L	120	(50-150)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	2-Hexanone		50	44.2	ug/L	88	(70-130)		
LCS2	2-Hexanone		50	46.6	ug/L	93	(70-130)	20	5.3
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5	4.67	ug/L	93	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	92.6	%	93	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	97.8	%	98	(70-130)		
MBLK	4-Bromofluorobenzene (S)			94.2	%	94	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	96.4	%	96	(70-130)		
MRLLW	4-Bromofluorobenzene (S)		5	95.6	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	44.5	ug/L	89	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	47.3	ug/L	95	(70-130)	20	6.1
MBLK	4-Methyl-2-Pentanone (MIBK)			<5.0	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.67	ug/L	93	(50-150)		
LCS1	Acetone		50	55.2	ug/L	110	(70-130)		
LCS2	Acetone		50	54.4	ug/L	109	(70-130)	20	1.3
MBLK	Acetone			<10	ug/L				
MRL_CHK	Acetone		5	6.51	ug/L	130	(50-150)		
LCS1	Benzene		5	4.76	ug/L	95	(70-130)		
LCS2	Benzene		5	5.10	ug/L	102	(70-130)	20	6.9
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5	3.98	ug/L	80	(70-130)		
LCS2	Bromobenzene		5	4.39	ug/L	88	(70-130)	20	9.8
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	Bromochloromethane		5	5.14	ug/L	103	(70-130)		
LCS2	Bromochloromethane		5	5.34	ug/L	107	(70-130)	20	3.8
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromodichloromethane		5	4.69	ug/L	94	(70-130)		
LCS2	Bromodichloromethane		5	4.94	ug/L	99	(70-130)	20	5.2
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromoethane		5	6.46	ug/L	129	(70-130)		
LCS2	Bromoethane		5	6.79	ug/L	**136**	(70-130)	20	5.0
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Bromoform		5	4.05	ug/L	81	(70-130)		

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1 800 566 LABS (1 800 566 5227)

Report: 992221
Project: INTERA
Group: MW - INTERA Albuquerque+

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Bromoform		5	4.31	ug/L	86	(70-130)	20	6.2
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.440	ug/L	88	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.22	ug/L	104	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.58	ug/L	112	(70-130)	20	6.7
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.620	ug/L	124	(50-150)		
LCS1	Carbon disulfide		5	5.21	ug/L	104	(70-130)		
LCS2	Carbon disulfide		5	5.48	ug/L	110	(70-130)	20	5.0
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.460	ug/L	92	(50-150)		
LCS1	Carbon Tetrachloride		5	4.18	ug/L	84	(70-130)		
LCS2	Carbon Tetrachloride		5	4.85	ug/L	97	(70-130)	20	15
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.380	ug/L	76	(50-150)		
LCS1	Chlorobenzene		5	4.25	ug/L	85	(70-130)		
LCS2	Chlorobenzene		5	4.65	ug/L	93	(70-130)	20	9.0
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	Chlorodibromomethane		5	3.99	ug/L	80	(70-130)		
LCS2	Chlorodibromomethane		5	4.16	ug/L	83	(70-130)	20	4.2
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.360	ug/L	72	(50-150)		
LCS1	Chloroethane		5	4.76	ug/L	95	(70-130)		
LCS2	Chloroethane		5	5.32	ug/L	106	(70-130)	20	11
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	4.65	ug/L	93	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	5.03	ug/L	101	(70-130)	20	7.8
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	5.00	ug/L	100	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	4.82	ug/L	96	(70-130)	20	3.7
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.560	ug/L	112	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	5.55	ug/L	111	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	5.37	ug/L	107	(70-130)	20	3.3
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).
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.27	ug/L	85	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.61	ug/L	92	(70-130)	20	7.7
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Dibromomethane		5	4.62	ug/L	92	(70-130)		
LCS2	Dibromomethane		5	4.93	ug/L	99	(70-130)	20	6.5
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Dichlorodifluoromethane		5	4.15	ug/L	83	(70-130)		
LCS2	Dichlorodifluoromethane		5	4.85	ug/L	97	(70-130)	20	16
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Dichloromethane		5	5.52	ug/L	110	(70-130)		
LCS2	Dichloromethane		5	5.82	ug/L	116	(70-130)	20	5.3
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Di-isopropyl ether		5	5.26	ug/L	105	(70-130)		
LCS2	Di-isopropyl ether		5	5.95	ug/L	119	(70-130)	20	12
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.590	ug/L	118	(50-150)		
LCS1	Ethyl benzene		5	4.21	ug/L	84	(70-130)		
LCS2	Ethyl benzene		5	4.49	ug/L	90	(70-130)	20	6.4
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.350	ug/L	70	(50-150)		
LCS1	Hexachlorobutadiene		5	5.05	ug/L	101	(70-130)		
LCS2	Hexachlorobutadiene		5	5.12	ug/L	102	(70-130)	20	1.4
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Isopropylbenzene		5	4.18	ug/L	84	(70-130)		
LCS2	Isopropylbenzene		5	4.76	ug/L	95	(70-130)	20	13
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	m,p-Xylenes		10	8.70	ug/L	87	(70-130)		
LCS2	m,p-Xylenes		10	9.51	ug/L	95	(70-130)	20	8.9
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.770	ug/L	77	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.390	ug/L	78	(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	m-Dichlorobenzene (1,3-DCB)		5	4.10	ug/L	82	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.63	ug/L	93	(70-130)	20	12
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.400	ug/L	80	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	5.15	ug/L	103	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	5.46	ug/L	109	(70-130)	20	5.8
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.530	ug/L	106	(50-150)		
LCS1	Naphthalene		5	4.32	ug/L	86	(70-130)		
LCS2	Naphthalene		5	4.70	ug/L	94	(70-130)	20	8.4
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.380	ug/L	76	(50-150)		
LCS1	n-Butylbenzene		5	4.58	ug/L	92	(70-130)		
LCS2	n-Butylbenzene		5	4.95	ug/L	99	(70-130)	20	7.8
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.370	ug/L	74	(50-150)		
LCS1	n-Propylbenzene		5	4.64	ug/L	93	(70-130)		
LCS2	n-Propylbenzene		5	4.99	ug/L	100	(70-130)	20	7.3
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.380	ug/L	76	(50-150)		
LCS1	o-Chlorotoluene		5	4.45	ug/L	89	(70-130)		
LCS2	o-Chlorotoluene		5	4.66	ug/L	93	(70-130)	20	4.6
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.370	ug/L	74	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.60	ug/L	92	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.97	ug/L	99	(70-130)	20	7.7
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Xylene		5	4.55	ug/L	91	(70-130)		
LCS2	o-Xylene		5	4.78	ug/L	96	(70-130)	20	4.9
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Chlorotoluene		5	4.07	ug/L	81	(70-130)		
LCS2	p-Chlorotoluene		5	4.54	ug/L	91	(70-130)	20	11
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.400	ug/L	80	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.24	ug/L	85	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.66	ug/L	93	(70-130)	20	9.4

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).
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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	0.430	ug/L	86	(50-150)		
LCS1	p-Isopropyltoluene		5	4.45	ug/L	89	(70-130)		
LCS2	p-Isopropyltoluene		5	4.81	ug/L	96	(70-130)	20	7.8
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.480	ug/L	96	(50-150)		
LCS1	sec-Butylbenzene		5	4.52	ug/L	90	(70-130)		
LCS2	sec-Butylbenzene		5	4.87	ug/L	97	(70-130)	20	7.5
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Styrene		5	4.41	ug/L	88	(70-130)		
LCS2	Styrene		5	4.75	ug/L	95	(70-130)	20	7.4
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.340	ug/L	68	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.80	ug/L	96	(70-130)		
LCS2	tert-amyl Methyl Ether		5	5.02	ug/L	100	(70-130)	20	4.5
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.480	ug/L	96	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	5.13	ug/L	103	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.58	ug/L	112	(70-130)	20	8.4
MBLK	tert-Butyl Ethyl Ether			<3.0	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.530	ug/L	106	(50-150)		
LCS1	tert-Butylbenzene		5	4.53	ug/L	91	(70-130)		
LCS2	tert-Butylbenzene		5	4.89	ug/L	98	(70-130)	20	7.6
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.350	ug/L	70	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	3.96	ug/L	79	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.35	ug/L	87	(70-130)	20	9.4
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.400	ug/L	80	(50-150)		
LCS1	Toluene		5	4.38	ug/L	88	(70-130)		
LCS2	Toluene		5	4.91	ug/L	98	(70-130)	20	11
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Toluene-d8 (S)		5	99.0	%	99	(70-130)		
LCS2	Toluene-d8 (S)		5	100	%	100	(70-130)		
MBLK	Toluene-d8 (S)			88.0	%	88	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	98.0	%	98	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRLLW	Toluene-d8 (S)		5	94.6	%	95	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.93	ug/L	99	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	5.66	ug/L	113	(70-130)	20	14
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.500	ug/L	100	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	4.72	ug/L	94	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.97	ug/L	99	(70-130)	20	5.2
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Trichloroethylene (TCE)		5	4.50	ug/L	90	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.74	ug/L	95	(70-130)	20	5.2
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Trichlorofluoromethane		5	4.29	ug/L	86	(70-130)		
LCS2	Trichlorofluoromethane		5	4.57	ug/L	91	(70-130)	20	6.3
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.14	ug/L	103	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	5.52	ug/L	110	(70-130)	20	7.1
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.410	ug/L	82	(50-150)		
LCS1	Vinyl chloride (VC)		5	5.04	ug/L	101	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.12	ug/L	102	(70-130)	20	1.6
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.510	ug/L	102	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.270	ug/L	108	(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).
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Laboratory Hits

Report: 992221
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:
03/10/2022 0950

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	202203100633	**DH43-AQ D2**				
03/16/2022 16:08	Acetone		12		ug/L	10
03/16/2022 00:00	Benz(a)Anthracene		0.0216		ug/L	0.005
03/16/2022 00:00	Benzo(e)pyrene		0.156		ug/L	0.005
03/16/2022 00:00	Benzo(g,h,i)perylene		0.192		ug/L	0.005
03/16/2022 00:00	Chrysene		0.0695		ug/L	0.005
03/16/2022 00:00	Fluoranthene		0.0153		ug/L	0.005
03/16/2022 00:00	Indeno(1,2,3,c,d)Pyrene		0.104		ug/L	0.005
03/16/2022 00:00	Pyrene		0.0158		ug/L	0.005
03/14/2022 11:02	TPH Diesel		1700		ug/L	50
03/14/2022 11:02	TPH Motor Oil		130		ug/L	50

SUMMARY OF POSITIVE DATA ONLY

March 15, 2022

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

TEL: (626) 386-1158
FAX:

Workorder No.: N049772

RE: RED HILL

Attention: Debbie Frank

Enclosed are the results for sample(s) received on March 10, 2022 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Sibucao
Laboratory Director

CLIENT: Eurofins
Project: RED HILL
Lab Order: N049772

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 8015B_DRO:

Matrix Spike Duplicate (MSD) is outside recovery criteria for TPH-Diesel in QC sample N049773-001-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *15-Mar-22*

CLIENT: Eurofins
Project: RED HILL
Lab Order: N049772
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N049772-001A	992221_202203100633_DH4 3-AQ D2	Raw Groundwater	3/9/2022 12:00:00 PM	3/10/2022	3/15/2022
N049772-001B	992221_202203100633_DH4 3-AQ D2	Raw Groundwater	3/9/2022 12:00:00 PM	3/10/2022	3/15/2022
N049772-002A	992221_202203100634_DH4 3-TB	Bottled Water	3/9/2022 12:00:00 PM	3/10/2022	3/15/2022

CLIENT:	Eurofins	**Client Sample ID:**	992221_202203100633_DH43-AQ D
Lab Order:	N049772	**Collection Date:**	3/9/2022 12:00:00 PM
Project:	RED HILL	**Matrix:**	RAW GROUNDWATER
Lab ID:	N049772-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH CARBON CHAIN EPA 8015						
EPA 3510C				**EPA 8015B(M)**		
RunID: NV00922-GC3_220314D	QC Batch: 91868			PrepDate:	3/11/2022	Analyst: **MCC**
Diesel Range Organics (C10-C28)	1700	50		ug/L	1	3/14/2022 11:02 PM
Oil Range Organics (C28-C40)	130	50		ug/L	1	3/14/2022 11:02 PM
Surr: p-Terphenyl	46.3	33-138		%REC	1	3/14/2022 11:02 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: NV00922-GC4_220310A	QC Batch: E22VW026			PrepDate:		Analyst: **QBM**
GRO	ND	0.050		mg/L	1	3/10/2022 09:06 PM
Surr: Chlorobenzene - d5	95.2	69-130		%REC	1	3/10/2022 09:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-22*

CLIENT:	Eurofins	**Client Sample ID:**	992221_202203100634_DH43-TB
Lab Order:	N049772	**Collection Date:**	3/9/2022 12:00:00 PM
Project:	RED HILL	**Matrix:**	BOTTLED WATER
Lab ID:	N049772-002		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: NV00922-GC4_220310A	QC Batch: E22VW026			PrepDate:		Analyst: **QBM**
GRO	ND	0.050		mg/L	1	3/10/2022 09:36 PM
Surr: Chlorobenzene - d5	103	69-130		%REC	1	3/10/2022 09:36 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified	
	DO	Surrogate Diluted Out			

CLIENT: Eurofins
Work Order: N049772
Project: RED HILL

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DM_W_CC

Sample ID: **MB-91868**	SampType: **MBLK**	TestCode: **8015DM_W_C**	Units: **ug/L**	Prep Date: **3/11/2022**	RunNo: **160830**
Client ID: **PBW**	Batch ID: **91868**	TestNo: **EPA 8015B(M**	**EPA 3510C**	Analysis Date: **3/14/2022**	SeqNo: **4564398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C28)	ND	50									
Oil Range Organics (C28-C40)	ND	50									
Surr: p-Terphenyl	54.203		80.00		67.8	33	138				

Sample ID: **LCS-91868**	SampType: **LCS**	TestCode: **8015DM_W_C**	Units: **ug/L**	Prep Date: **3/11/2022**	RunNo: **160830**
Client ID: **LCSW**	Batch ID: **91868**	TestNo: **EPA 8015B(M**	**EPA 3510C**	Analysis Date: **3/14/2022**	SeqNo: **4564399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C28)	818.737	50	1000	0	81.9	48	120				
Surr: p-Terphenyl	65.078		80.00		81.3	33	138				

Sample ID: **N049773-001B-MS**	SampType: **MS**	TestCode: **8015DM_W_C**	Units: **ug/L**	Prep Date: **3/11/2022**	RunNo: **160830**
Client ID: **ZZZZZZ**	Batch ID: **91868**	TestNo: **EPA 8015B(M**	**EPA 3510C**	Analysis Date: **3/15/2022**	SeqNo: **4564402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C28)	2744.170	50	1000	2089	65.5	48	120				
Surr: p-Terphenyl	54.385		80.00		68.0	33	138				

Sample ID: **N049773-001B-MSD**	SampType: **MSD**	TestCode: **8015DM_W_C**	Units: **ug/L**	Prep Date: **3/11/2022**	RunNo: **160830**
Client ID: **ZZZZZZ**	Batch ID: **91868**	TestNo: **EPA 8015B(M**	**EPA 3510C**	Analysis Date: **3/15/2022**	SeqNo: **4564403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C28)	3307.850	50	1000	2089	122	48	120	2744	18.6	20	S
Surr: p-Terphenyl	54.801		80.00		68.5	33	138		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Eurofins
Work Order: N049772
Project: RED HILL

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WP

Sample ID: **E220310LCS**	SampType: **LCS**	TestCode: **8015GAS_WP**	Units: **mg/L**	Prep Date:	RunNo: **160732**
Client ID: **LCSW**	Batch ID: **E22VW026**	TestNo: **EPA 8015B**		Analysis Date: **3/10/2022**	SeqNo: **4558658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.944	0.050	1.000	0	94.4	69	143				
Surr: Chlorobenzene - d5	47.719		50.00		95.4	69	130				

Sample ID: **E220310MB1**	SampType: **MBLK**	TestCode: **8015GAS_WP**	Units: **mg/L**	Prep Date:	RunNo: **160732**
Client ID: **PBW**	Batch ID: **E22VW026**	TestNo: **EPA 8015B**		Analysis Date: **3/10/2022**	SeqNo: **4558659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Chlorobenzene - d5	50.873		50.00		102	69	130				

Sample ID: **N049753-004BMS**	SampType: **MS**	TestCode: **8015GAS_WP**	Units: **mg/L**	Prep Date:	RunNo: **160732**
Client ID: **ZZZZZZ**	Batch ID: **E22VW026**	TestNo: **EPA 8015B**		Analysis Date: **3/10/2022**	SeqNo: **4558665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.002	0.10	2.000	0.9560	102	49	156				
Surr: Chlorobenzene - d5	115.010		100.0		115	69	130				

Sample ID: **N049753-004BMSD**	SampType: **MSD**	TestCode: **8015GAS_WP**	Units: **mg/L**	Prep Date:	RunNo: **160732**
Client ID: **ZZZZZZ**	Batch ID: **E22VW026**	TestNo: **EPA 8015B**		Analysis Date: **3/10/2022**	SeqNo: **4558666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.042	0.10	2.000	0.9560	104	49	156	3.002	1.32	20	
Surr: Chlorobenzene - d5	122.704		100.0		123	69	130		0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

eurofins | Eaton Analytical

CHAIN OF CUSTODY RE

EUROF01 C: 3/14/2022 12:00 AM
FOLDER R: 3/10/2022
N049772-003A 1 of 1

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:

LOGIN COMMENTS: _____ SAMPL

2.9°C /

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 2.8°C ID#3 SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

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

☐ Monrovia _____ °C (Compliance: 4 ± 2 °C)

5391 / Fed# 5369

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: **RUSH** STD __ 1 wk __ 3 day __X__ 2 day __ 1 day __

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX*	FIELD DATA	FIELD DATA	8015_ea-C44_Assets	@ 624_Physis @ 625	8015 Gas Travel Blank	@ 624 DN_Physis	8015 Gas	@ VOA SDWA +TVB	@ VOA SDWA +TVB +TICs	SAMPLER COMMENTS
														314313
3/1/22	1200	N049772-01	DH43-AQ 02	RGW				4		2	4	4		kit# ~~302592~~
		-02	DH43-TB	BW					2				3	Provided by EEA
			[Bottle Size											

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

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	3/7/22	1200
RELINQUISHED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	3/9/22	1425
RECEIVED BY:		Guille Jaime	ASSET LABS	3/10/22	0950
RELINQUISHED BY:					
RECEIVED BY:					

PAGE 1 OF 1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	3/10/2022	Workorder:	N049772
Rep sample Temp (Deg C):	2.9/2.8	IR Gun ID:	3
Temp Blank:	☐ Yes ☑ No		
Carrier name:	FedEx		
Last 4 digits of Tracking No.:	5391/5369	Packing Material Used:	Bubble Wrap
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Sample 2: Same collection date and time of the associated field sample (sample 1).

For:

Checklist Completed By: GGJ YRJ 3/10/2022

Reviewed By: MBC 3/12/2022

ASSET Laboratories

WORK ORDER Summary

12-Mar-22

WorkOrder: N049772

Client ID: EUROF01

Project: RED HILL **QC Level:** RTNE **Date Received:** 3/10/2022

Comments: MRL only

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N049772-001A	992221_202203100633_DH4 3-AQ-D2	3/9/2022 12:00:00 PM	3/14/2022	Raw Groundwater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	VW
N049772-001B			3/14/2022		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☐	☐	WW
			3/14/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	☐	☐	☐	WW
N049772-002A	992221_202203100634_DH4 3-TB		3/14/2022	Bottled Water	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	VW
N049772-003A	FOLDER	3/14/2022	3/14/2022		Folder	Folder	☐	☐	☐	LAB
			3/14/2022		Folder	Folder	☐	☐	☐	LAB

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

KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 08MAR22
ACTWGT: 48.60 LB
CAD: 6994241/SSFE2300
DIMS: 24x12x13 IN

BILL THIRD PARTY

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

LAS VEGAS NV 89118
(702) 307-2659 REF:
INV:
PO: DEPT:

FedEx
Express

E

THU - 10 MAR 10:30A
PRIORITY OVERNIGHT

4 of 4
MPS# 0263 2706 9401 5391
Mstr# 2706 9401 5369 0201

WR LASA

89118
NV-US LAS

2.9°C IR#3

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

KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 09MAR22
ACTWGT: 31.40 LB
CAD: 6994241/SSFE2300
DIMS: 16x12x14 IN

BILL THIRD PARTY

Part # 156290-[illegible] REF 01/23

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

LAS VEGAS NV 89118

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

FedEx Express

1 of 4

TRK# 0201 **2706 9401 5369**

MASTER

THU - 10 MAR 10:30
PRIORITY OVERNIGH

WR LASA

8911
NV-US **LA**

2.8°C IK#3

March 18, 2022

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

Project Name: PaloRojo Folder #992221 Sub PO # Job # 1000014
Physis Project ID: 1407003-231

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 3/11/2022. 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: 1407003-231

PaloRojo Folder #992221 Sub PO # Job # 1000014 — Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
95640	202203100633	DH43-AQ-D2	3/9/2022	12:00	Samplewater	Grab

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

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

PHYSIS Project ID: 1407003-231
Client: Eurofins Eaton Analytical
Project: PaloRojo Folder #992221 Sub PO # Job # 1000014

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 95640-R1	**202203100633 DH43-AQ-D2**		**Matrix: Samplewater**					**Sampled: 09-Mar-22 12:00**		**Received:**	**11-Mar-22**
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Benzoic Acid	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-35092	11-Mar-22	16-Mar-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22

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Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 95640-R1	**202203100633 DH43-AQ-D2**		**Matrix: Samplewater**					**Sampled: 09-Mar-22 12:00**		**Received:**	**11-Mar-22**
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-35092	11-Mar-22	16-Mar-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 95640-R1	**202203100633 DH43-AQ-D2**		**Matrix: Samplewater**					**Sampled: 09-Mar-22 12:00**		**Received: 11-Mar-22**	
(d10-Acenaphthene)	EPA 625.1	% Recovery	79	1			Total		O-35092	11-Mar-22	16-Mar-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	101	1			Total		O-35092	11-Mar-22	16-Mar-22
(d12-Chrysene)	EPA 625.1	% Recovery	93	1			Total		O-35092	11-Mar-22	16-Mar-22
(d12-Perylene)	EPA 625.1	% Recovery	82	1			Total		O-35092	11-Mar-22	16-Mar-22
(d8-Naphthalene)	EPA 625.1	% Recovery	67	1			Total		O-35092	11-Mar-22	16-Mar-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Benz[a]anthracene	EPA 625.1	µg/L	0.0216	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Benzo[e]pyrene	EPA 625.1	µg/L	0.156	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	0.192	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Chrysene	EPA 625.1	µg/L	0.0695	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-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	0.0153	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	0.104	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22
Pyrene	EPA 625.1	µg/L	0.0158	1	0.001	0.005	Total		O-35092	11-Mar-22	16-Mar-22

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QUALITY CONTROL REPORT

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

PHYSIS Project ID: 1407003-231
Client: Eurofins Eaton Analytical
Project: PaloRojo Folder #992221 Sub PO # Job # 1000014

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: 95639-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**				**Received:**		
	Method: EPA 625.1					Batch ID: O-35092	Prepared: 11-Mar-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							

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Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 95639-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35092		Prepared: 11-Mar-22				Analyzed: 16-Mar-22	
2,4,5-Trichlorophenol	Total	0.734	1	0.05	0.1	µg/L	1	0	73	57 - 116%	PASS		
2,4,6-Trichlorophenol	Total	0.733	1	0.05	0.1	µg/L	1	0	73	56 - 118%	PASS		
2,4-Dichlorophenol	Total	0.591	1	0.05	0.1	µg/L	1	0	59	51 - 117%	PASS		
2,4-Dinitrophenol	Total	0.534	1	0.1	0.2	µg/L	1	0	53	0 - 152%	PASS		
2,6-Dichlorophenol	Total	0.388	1	0.05	0.1	µg/L	1	0	39	30 - 130%	PASS		
2,6-Di-tert-butyl-4-methylphenol	Total	0.519	1	0.05	0.1	µg/L	1	0	52	50 - 150%	PASS		
2,6-Di-tert-butylphenol	Total	0.536	1	0.05	0.1	µg/L	1	0	54	50 - 150%	PASS		
2-Chlorophenol	Total	0.529	1	0.05	0.1	µg/L	1	0	53	41 - 110%	PASS		
2-Methyl-4,6-dinitrophenol	Total	0.977	1	0.1	0.2	µg/L	1	0	98	0 - 141%	PASS		
2-Methylphenol	Total	0.611	1	0.1	0.2	µg/L	1	0	61	40 - 117%	PASS		
2-Nitrophenol	Total	0.777	1	0.1	0.2	µg/L	1	0	78	40 - 117%	PASS		
3+4-Methylphenol	Total	0.568	1	0.1	0.2	µg/L	1	0	57	0 - 130%	PASS		
4-Chloro-3-methylphenol	Total	0.822	1	0.1	0.2	µg/L	1	0	82	51 - 128%	PASS		
4-Nitrophenol	Total	0.91	1	0.1	0.2	µg/L	1	0	91	10 - 164%	PASS		
6-tert-butyl-2,4-dimethylphenol	Total	0.558	1	0.05	0.1	µg/L	1	0	56	50 - 150%	PASS		
Benzoic Acid	Total	0.92	1	0.1	0.2	µg/L	1	0	92	2 - 145%	PASS		
Benzyl Alcohol	Total	0.554	1	0.1	0.2	µg/L	1	0	55	43 - 148%	PASS		
Pentachlorophenol	Total	0.678	1	0.05	0.1	µg/L	1	0	68	36 - 111%	PASS		
Phenol	Total	0.53	1	0.1	0.2	µg/L	1	0	53	29 - 114%	PASS		
p-tert-Butylphenol	Total	0.528	1	0.05	0.1	µg/L	1	0	53	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: 95639-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
		Method: EPA 625.1				Batch ID: O-35092		Prepared: 11-Mar-22				Analyzed: 16-Mar-22		
2,4,5-Trichlorophenol	Total	0.752	1	0.05	0.1	µg/L	1	0	75	57 - 116%	PASS	3	30	PASS
2,4,6-Trichlorophenol	Total	0.753	1	0.05	0.1	µg/L	1	0	75	56 - 118%	PASS	3	30	PASS
2,4-Dichlorophenol	Total	0.6	1	0.05	0.1	µg/L	1	0	60	51 - 117%	PASS	2	30	PASS
2,4-Dinitrophenol	Total	0.503	1	0.1	0.2	µg/L	1	0	50	0 - 152%	PASS	6	30	PASS
2,6-Dichlorophenol	Total	0.392	1	0.05	0.1	µg/L	1	0	39	30 - 130%	PASS	0	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.529	1	0.05	0.1	µg/L	1	0	53	50 - 150%	PASS	2	30	PASS
2,6-Di-tert-butylphenol	Total	0.543	1	0.05	0.1	µg/L	1	0	54	50 - 150%	PASS	0	30	PASS
2-Chlorophenol	Total	0.528	1	0.05	0.1	µg/L	1	0	53	41 - 110%	PASS	0	30	PASS
2-Methyl-4,6-dinitrophenol	Total	0.867	1	0.1	0.2	µg/L	1	0	87	0 - 141%	PASS	12	30	PASS
2-Methylphenol	Total	0.631	1	0.1	0.2	µg/L	1	0	63	40 - 117%	PASS	3	30	PASS
2-Nitrophenol	Total	0.694	1	0.1	0.2	µg/L	1	0	69	40 - 117%	PASS	12	30	PASS
3+4-Methylphenol	Total	0.588	1	0.1	0.2	µg/L	1	0	59	0 - 130%	PASS	3	30	PASS
4-Chloro-3-methylphenol	Total	0.814	1	0.1	0.2	µg/L	1	0	81	51 - 128%	PASS	1	30	PASS
4-Nitrophenol	Total	0.858	1	0.1	0.2	µg/L	1	0	86	10 - 164%	PASS	6	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.564	1	0.05	0.1	µg/L	1	0	56	50 - 150%	PASS	0	30	PASS
Benzoic Acid	Total	1.09	1	0.1	0.2	µg/L	1	0	109	2 - 145%	PASS	17	30	PASS
Benzyl Alcohol	Total	0.571	1	0.1	0.2	µg/L	1	0	57	43 - 148%	PASS	4	30	PASS
Pentachlorophenol	Total	0.605	1	0.05	0.1	µg/L	1	0	61	36 - 111%	PASS	12	30	PASS
Phenol	Total	0.549	1	0.1	0.2	µg/L	1	0	55	29 - 114%	PASS	4	30	PASS
p-tert-Butylphenol	Total	0.536	1	0.05	0.1	µg/L	1	0	54	50 - 150%	PASS	2	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: 95639-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**				**Received:**		
	Method: EPA 625.1					Batch ID: O-35092	Prepared: 11-Mar-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: 95639-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
	Method: EPA 625.1					Batch ID: O-35092		Prepared: 11-Mar-22				Analyzed: 16-Mar-22	
2-Chloronaphthalene	Total	0.571	1	0.05	0.1	µg/L	1	0	57	53 - 130%	PASS		
2-Nitroaniline	Total	0.705	1	0.05	0.1	µg/L	1	0	70	69 - 114%	PASS		
3-Nitroaniline	Total	0.45	1	0.05	0.1	µg/L	1	0	45	23 - 137%	PASS		
4-Bromophenylphenyl ether	Total	0.655	1	0.05	0.1	µg/L	1	0	65	61 - 132%	PASS		
4-Chloroaniline	Total	0.81	1	0.05	0.1	µg/L	1	0	81	50 - 150%	PASS		
4-Chlorophenylphenyl ether	Total	0.699	1	0.05	0.1	µg/L	1	0	70	63 - 130%	PASS		
4-Nitroaniline	Total	0.562	1	0.05	0.1	µg/L	1	0	56	10 - 159%	PASS		
Aniline	Total	0.641	1	0.05	0.1	µg/L	1	0	64	50 - 150%	PASS		
Benzidine	Total	1.2	1	0.05	0.1	µg/L	1	0	120	0 - 125%	PASS		
Bis(2-Chloroethoxy) methane	Total	0.696	1	0.05	0.1	µg/L	1	0	70	66 - 122%	PASS		
Bis(2-Chloroethyl) ether	Total	0.641	1	0.05	0.1	µg/L	1	0	64	43 - 127%	PASS		
Bis(2-Chloroisopropyl) ether	Total	0.638	1	0.05	0.1	µg/L	1	0	64	49 - 128%	PASS		
Dibenzofuran	Total	0.574	1	0.05	0.1	µg/L	1	0	57	50 - 150%	PASS		
Disalicylidenepropanediamin e	Total	1.76	1	0.05	0.1	µg/L	2	0	88	50 - 150%	PASS		
Hexachloroethane	Total	0.591	1	0.05	0.1	µg/L	1	0	59	27 - 130%	PASS		
Nitrobenzene	Total	0.623	1	0.05	0.1	µg/L	1	0	62	54 - 111%	PASS		
N-Nitrosodi-n-propylamine	Total	0.615	1	0.05	0.1	µg/L	1	0	62	61 - 152%	PASS		
N-Nitrosodiphenylamine	Total	0.749	1	0.05	0.1	µg/L	1	0	75	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: 95639-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**					**Received:**		
		Method: EPA 625.1				Batch ID: O-35092		Prepared: 11-Mar-22					Analyzed: 16-Mar-22		
2-Chloronaphthalene	Total	0.561	1	0.05	0.1	µg/L	1	0	56	53 - 130%	PASS	2	30	PASS	
2-Nitroaniline	Total	0.739	1	0.05	0.1	µg/L	1	0	74	69 - 114%	PASS	6	30	PASS	
3-Nitroaniline	Total	0.456	1	0.05	0.1	µg/L	1	0	46	23 - 137%	PASS	2	30	PASS	
4-Bromophenylphenyl ether	Total	0.644	1	0.05	0.1	µg/L	1	0	64	61 - 132%	PASS	3	30	PASS	
4-Chloroaniline	Total	0.795	1	0.05	0.1	µg/L	1	0	80	50 - 150%	PASS	1	30	PASS	
4-Chlorophenylphenyl ether	Total	0.687	1	0.05	0.1	µg/L	1	0	69	63 - 130%	PASS	1	30	PASS	
4-Nitroaniline	Total	0.742	1	0.05	0.1	µg/L	1	0	74	10 - 159%	PASS	28	30	PASS	
Aniline	Total	0.636	1	0.05	0.1	µg/L	1	0	64	50 - 150%	PASS	0	30	PASS	
Benzidine	Total	1.17	1	0.05	0.1	µg/L	1	0	117	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	0	30	PASS	
Bis(2-Chloroethyl) ether	Total	0.636	1	0.05	0.1	µg/L	1	0	64	43 - 127%	PASS	0	30	PASS	
Bis(2-Chloroisopropyl) ether	Total	0.632	1	0.05	0.1	µg/L	1	0	63	49 - 128%	PASS	2	30	PASS	
Dibenzofuran	Total	0.567	1	0.05	0.1	µg/L	1	0	57	50 - 150%	PASS	0	30	PASS	
Disalicylidenepropanediamin	Total	1.88	1	0.05	0.1	µg/L	2	0	94	50 - 150%	PASS	7	30	PASS	
Hexachloroethane	Total	0.568	1	0.05	0.1	µg/L	1	0	57	27 - 130%	PASS	3	30	PASS	
Nitrobenzene	Total	0.62	1	0.05	0.1	µg/L	1	0	62	54 - 111%	PASS	0	30	PASS	
N-Nitrosodi-n-propylamine	Total	0.627	1	0.05	0.1	µg/L	1	0	63	61 - 152%	PASS	2	30	PASS	
N-Nitrosodiphenylamine	Total	0.742	1	0.05	0.1	µg/L	1	0	74	49 - 142%	PASS	1	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: 95639-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-35092		Prepared: 11-Mar-22				Analyzed: 16-Mar-22	
(d10-Acenaphthene)	Total	83	1			% Recovery	100	83	83	65 - 113%	PASS		
(d10-Phenanthrene)	Total	85	1			% Recovery	100	85	85	80 - 111%	PASS		
(d12-Chrysene)	Total	89	1			% Recovery	100	89	89	60 - 139%	PASS		
(d12-Perylene)	Total	105	1			% Recovery	100	105	105	36 - 161%	PASS		
(d8-Naphthalene)	Total	90	1			% Recovery	100	90	90	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: 95639-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1				Batch ID: O-35092		Prepared: 11-Mar-22				Analyzed: 16-Mar-22	
(d10-Acenaphthene)	Total	65	1			% Recovery	100	0	65	65 - 113%	PASS		
(d10-Phenanthrene)	Total	85	1			% Recovery	100	0	85	80 - 111%	PASS		
(d12-Chrysene)	Total	75	1			% Recovery	100	0	75	60 - 139%	PASS		
(d12-Perylene)	Total	81	1			% Recovery	100	0	81	36 - 161%	PASS		
(d8-Naphthalene)	Total	45	1			% Recovery	100	0	45	44 - 119%	PASS		
1-Methylnaphthalene	Total	0.461	1	0.001	0.005	µg/L	0.5	0	92	49 - 117%	PASS		
1-Methylphenanthrene	Total	0.43	1	0.001	0.005	µg/L	0.5	0	86	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	0.355	1	0.001	0.005	µg/L	0.5	0	71	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	0.278	1	0.001	0.005	µg/L	0.5	0	56	54 - 117%	PASS		
2-Methylnaphthalene	Total	0.506	1	0.001	0.005	µg/L	0.5	0	101	47 - 130%	PASS		
Acenaphthene	Total	0.499	1	0.001	0.005	µg/L	0.5	0	100	53 - 131%	PASS		
Acenaphthylene	Total	0.467	1	0.001	0.005	µg/L	0.5	0	93	43 - 140%	PASS		
Anthracene	Total	0.419	1	0.001	0.005	µg/L	0.5	0	84	58 - 135%	PASS		
Benz[a]anthracene	Total	0.636	1	0.001	0.005	µg/L	0.5	0	127	55 - 145%	PASS		
Benzo[a]pyrene	Total	0.362	1	0.001	0.005	µg/L	0.5	0	72	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	0.494	1	0.001	0.005	µg/L	0.5	0	99	46 - 165%	PASS		
Benzo[e]pyrene	Total	0.399	1	0.001	0.005	µg/L	0.5	0	80	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	0.49	1	0.001	0.005	µg/L	0.5	0	98	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	0.41	1	0.001	0.005	µg/L	0.5	0	82	56 - 145%	PASS		
Biphenyl	Total	0.367	1	0.001	0.005	µg/L	0.5	0	73	56 - 119%	PASS		
Chrysene	Total	0.64	1	0.001	0.005	µg/L	0.5	0	128	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	0.429	1	0.001	0.005	µg/L	0.5	0	86	55 - 150%	PASS		
Dibenzo[a,l]pyrene	Total	2.16	1	0.001	0.005	µg/L	2	0	108	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	0.422	1	0.001	0.005	µg/L	0.5	0	84	75 - 113%	PASS			
Fluoranthene	Total	0.526	1	0.001	0.005	µg/L	0.5	0	105	60 - 146%	PASS			
Fluorene	Total	0.487	1	0.001	0.005	µg/L	0.5	0	97	58 - 131%	PASS			
Indeno[1,2,3-cd]pyrene	Total	0.478	1	0.001	0.005	µg/L	0.5	0	96	50 - 151%	PASS			
Naphthalene	Total	0.485	1	0.001	0.005	µg/L	0.5	0	97	41 - 126%	PASS			
Perylene	Total	0.362	1	0.001	0.005	µg/L	0.5	0	72	48 - 141%	PASS			
Phenanthrene	Total	0.379	1	0.001	0.005	µg/L	0.5	0	76	67 - 127%	PASS			
Pyrene	Total	0.576	1	0.001	0.005	µg/L	0.5	0	115	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: 95639-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
		Method: EPA 625.1				Batch ID: O-35092		Prepared: 11-Mar-22				Analyzed: 16-Mar-22		
(d10-Acenaphthene)	Total	72	1			% Recovery	100	0	72	65 - 113%	PASS	10	30	PASS
(d10-Phenanthrene)	Total	83	1			% Recovery	100	0	83	80 - 111%	PASS	2	30	PASS
(d12-Chrysene)	Total	79	1			% Recovery	100	0	79	60 - 139%	PASS	5	30	PASS
(d12-Perylene)	Total	84	1			% Recovery	100	0	84	36 - 161%	PASS	4	30	PASS
(d8-Naphthalene)	Total	52	1			% Recovery	100	0	52	44 - 119%	PASS	14	30	PASS
1-Methylnaphthalene	Total	0.449	1	0.001	0.005	µg/L	0.5	0	90	49 - 117%	PASS	2	30	PASS
1-Methylphenanthrene	Total	0.425	1	0.001	0.005	µg/L	0.5	0	85	66 - 127%	PASS	1	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.344	1	0.001	0.005	µg/L	0.5	0	69	57 - 120%	PASS	3	30	PASS
2,6-Dimethylnaphthalene	Total	0.367	1	0.001	0.005	µg/L	0.5	0	73	54 - 117%	PASS	26	30	PASS
2-Methylnaphthalene	Total	0.462	1	0.001	0.005	µg/L	0.5	0	92	47 - 130%	PASS	9	30	PASS
Acenaphthene	Total	0.458	1	0.001	0.005	µg/L	0.5	0	92	53 - 131%	PASS	8	30	PASS
Acenaphthylene	Total	0.437	1	0.001	0.005	µg/L	0.5	0	87	43 - 140%	PASS	7	30	PASS
Anthracene	Total	0.415	1	0.001	0.005	µg/L	0.5	0	83	58 - 135%	PASS	1	30	PASS
Benz[a]anthracene	Total	0.724	1	0.001	0.005	µg/L	0.5	0	145	55 - 145%	PASS	13	30	PASS
Benzo[a]pyrene	Total	0.392	1	0.001	0.005	µg/L	0.5	0	78	51 - 143%	PASS	8	30	PASS
Benzo[b]fluoranthene	Total	0.448	1	0.001	0.005	µg/L	0.5	0	90	46 - 165%	PASS	10	30	PASS
Benzo[e]pyrene	Total	0.414	1	0.001	0.005	µg/L	0.5	0	83	42 - 152%	PASS	4	30	PASS
Benzo[g,h,i]perylene	Total	0.479	1	0.001	0.005	µg/L	0.5	0	96	63 - 133%	PASS	2	30	PASS
Benzo[k]fluoranthene	Total	0.469	1	0.001	0.005	µg/L	0.5	0	94	56 - 145%	PASS	14	30	PASS
Biphenyl	Total	0.354	1	0.001	0.005	µg/L	0.5	0	71	56 - 119%	PASS	3	30	PASS
Chrysene	Total	0.677	1	0.001	0.005	µg/L	0.5	0	135	56 - 141%	PASS	5	30	PASS
Dibenz[a,h]anthracene	Total	0.455	1	0.001	0.005	µg/L	0.5	0	91	55 - 150%	PASS	6	30	PASS
Dibenzo[a,l]pyrene	Total	2.53	1	0.001	0.005	µg/L	2	0	126	50 - 150%	PASS	15	30	PASS

PHYSIS Project ID: 1407003-231
Client: Eurofins Eaton Analytical
Project: PaloRojo Folder #992221 Sub PO # Job # 1000014

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	0.413	1	0.001	0.005	µg/L	0.5	0	83	75 - 113%	PASS	1	30	PASS	
Fluoranthene	Total	0.508	1	0.001	0.005	µg/L	0.5	0	102	60 - 146%	PASS	3	30	PASS	
Fluorene	Total	0.453	1	0.001	0.005	µg/L	0.5	0	91	58 - 131%	PASS	6	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	0.457	1	0.001	0.005	µg/L	0.5	0	91	50 - 151%	PASS	5	30	PASS	
Naphthalene	Total	0.439	1	0.001	0.005	µg/L	0.5	0	88	41 - 126%	PASS	10	30	PASS	
Perylene	Total	0.392	1	0.001	0.005	µg/L	0.5	0	78	48 - 141%	PASS	8	30	PASS	
Phenanthrene	Total	0.354	1	0.001	0.005	µg/L	0.5	0	71	67 - 127%	PASS	7	30	PASS	
Pyrene	Total	0.544	1	0.001	0.005	µg/L	0.5	0	109	54 - 156%	PASS	5	30	PASS	

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TENTATIVELY IDENTIFIED COMPOUNDS

Sample ID: 95640

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
33.5281	0.0478	1111	Anthracene-D10-	1719-06-8	88
46.6942	1.1758	27334	cis-13-Octadecenoic acid	13126-39-1	80
30.5904	0.8881	20647	o-Toluidine	95-53-4	81
26.4470	0.6751	15694	o-Ethylhydroxylamine	624-86-2	82
41.2762	0.5143	11957	Eicosane	112-95-8	86
30.5854	0.4394	10215	p-Aminotoluene	106-49-0	82
40.0141	0.4176	9708	2-Hexyldecyl acetate	82409-75-4	82
19.7015	0.3987	9268	2,4,7,9-Tetramethyl-5-decyn-4,7-diol	126-86-3	97
64.2765	0.3653	8493	Octadecanoic acid, 2,3-dihydroxypropyl ester	123-94-4	94
25.3709	0.3276	7617	Diethyltoluamide	134-62-3	93
32.8518	0.3067	7131	Tetradecanoic acid	544-63-8	94
33.6182	0.2969	6901	Octadecane	593-45-3	94
46.0566	0.2931	6814	Benzene, 1,1'-sulfonylbis[2-methyl-	1168017	81
34.0042	0.2768	6435	Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	85
47.9765	0.2714	6310	di-p-Tolyl sulfone	599-66-6	95
31.8066	0.2629	6111	2-Picoline, 6-nitro-	18368-61-1	84
44.8613	0.2525	5870	Heneicosane	629-94-7	93
44.0639	0.2433	5655	1,6,11,16-Tetraoxacycloeicosane	17043-02-6	85
59.3422	0.2419	5623	Phthalic acid, di(2-propylpentyl) ester	1000377-93-5	94
63.0467	0.2005	4661	Octocrylene	6197-30-4	92
48.3056	0.1849	4298	Docosane	629-97-0	92
37.8930	0.1753	4075	Dodecane, 1-iodo-	4292-19-7	82
10.1420	0.1394	3242	Cyclotetrasiloxane, octamethyl-	556-67-2	97
16.4404	0.1344	3125	Hexanoic acid, 2-ethyl-	149-57-5	90
50.5997	0.1272	2956	Triethylene glycol monododecyl ether	3055-94-5	93
36.4212	0.1242	2887	Di-sec-butyl phthalate	1000373-65-4	92
37.2064	0.1218	2833	2,6,10-Trimethyltridecane	3891-99-4	84
39.8710	0.1206	2804	Dibutyl phthalate	84-74-2	88
19.1066	0.1136	2641	Dodecanal	112-54-9	99
40.1952	0.1126	2619	5H-Tetrazol-5-amine	1000273-02-0	88
59.3901	0.1119	2602	1,6,11,16,21,26-Hexaoxacyclotriacontane	64001-05-4	84
59.2162	0.1118	2599	Tetraethylene glycol monododecyl ether	5274-68-0	91
17.3079	0.1115	2591	Tetraborane(10)	18283-93-7	96
18.2576	0.1111	2583	n-Decanoic acid	334-48-5	97
23.2126	0.1006	2339	o-Hydroxybiphenyl	90-43-7	96
47.3437	0.0825	1919	2-Cyclopenten-1-one, 2-hydroxy-	10493-98-8	88
37.2467	0.0815	1895	Homosalate	118-56-9	87
39.6528	0.0773	1797	Nonadecane, 4-methyl-	25117-27-5	87
34.9473	0.0764	1776	Octadecane, 3-methyl-	6561-44-0	80
67.3821	0.0712	1655	Squalene	111-02-4	95
59.3700	0.0693	1612	2-Propenamide	79-06-1	83
16.4382	0.0651	1514	1,3-Dioxolane	646-06-0	91
63.2663	0.0646	1502	3-Hydroxy-3-methyl-2-butanone	115-22-0	83
67.0596	0.0640	1488	Pentaethylene glycol monododecyl ether	3055-95-6	90
37.2020	0.0627	1457	Nonane, 3,7-dimethyl-	17302-32-8	84
10.6664	0.0604	1404	1-Hexanol, 2-ethyl-	104-76-7	94
11.7562	0.0537	1248	Nonanal	124-19-6	98
22.8284	0.0535	1244	Phenol, 2,6-bis(1,1-dimethylethyl)-	128-39-2	81
36.0395	0.0531	1233	Hexadecane, 1-iodo-	544-77-4	81
36.1304	0.0526	1222	2-Propyn-1-amine, N,N-dimethyl-	7223-38-3	82
39.0023	0.0515	1196	1H-Tetrazol-5-amine	4418-61-5	86
21.4186	0.0513	1192	Cyclodecane	293-96-9	89
51.5854	0.0508	1181	Hexadecane	544-76-3	91
41.7510	0.0506	1176	Sulfurous acid, di(cyclohexylmethyl) ester	1010309-22-7	80
69.2511	0.0485	1127	Hentriacontane	630-04-6	93
40.3071	0.0441	1025	Butanenitrile, 2-methyl-	18936-17-9	81
39.0320	0.0424	987	Propanoic acid, 2-methyl-, anhydride	97-72-3	87
68.7832	0.0420	977	2-(2-methoxyethoxy)propanoic acid, O-acetyl-	1000506-61-7	91
40.6788	0.0394	916	Heptane, 2,6-dimethyl-	1072-05-5	80
75.0811	0.0391	909	Cholesterol	57-88-5	84
40.6788	0.0389	905	Hexane, 2,2,5,5-tetramethyl-	1071-81-4	81
13.2972	0.0378	879	1-Dodecene	112-41-4	93
60.8791	0.0362	841	Tetracosane	646-31-1	89
27.2753	0.0358	833	Benzophenone	119-61-9	97
13.2971	0.0345	802	Cyclopropane, nonyl-	74663-85-7	97
54.7993	0.0328	761	Octane, 2,7-dimethyl-	1072-16-8	88
33.8994	0.0326	759	4-Hexen-2-one	25659-22-7	86
70.5580	0.0312	725	Acetic acid, cesium salt	3396-11-0	87
33.9801	0.0311	722	2-Oxetanone, 4-methylene-	674-82-8	83
43.5241	0.0283	657	Octadecane, 1-iodo-	629-93-6	80
55.0777	0.0270	627	Tetradecane, 1-iodo-	19218-94-1	82
65.0939	0.0266	619	1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	6422-86-2	91
17.3973	0.0231	538	Phenol, 4-chloro-3-methyl-	59-50-7	89
52.2412	0.0230	535	2-Ethylhexyl trans-4-methoxycinnamate	83834-59-7	87
29.9408	0.0203	471	Undecane, 6,6-dimethyl-	17312-76-4	87
17.3724	0.0201	466	Ethane-1,1-diol dipropanoate	26880-30-8	82
46.7155	0.0182	423	Methyl hydrogen disulfide	6251-26-9	89
74.2119	0.0176	410	Heptaethylene glycol	5617-32-3	83
51.7513	0.0163	379	Benzoic acid, 2-methylpropyl ester	120-50-3	81
80.0936	0.0159	369	.gamma.-Sitosterol	83-47-6	83
74.2092	0.0156	362	Hexaethylene glycol	2615-15-8	87
25.7922	0.0153	357	Diethyl Phthalate	84-66-2	92
11.2836	0.0153	355	Acetophenone	98-86-2	96
12.7247	0.0145	337	2-Nonenal, (E)-	18829-56-6	84
35.8287	0.0114	265	3-Pentanone	96-22-0	82
10.7911	0.0112	261	dl-Erythro-1-phenyl-1,2-propanediol	1075-04-3	91
37.2433	0.0104	241	Borane, triethyl-	97-94-9	81
37.2433	0.0103	240	Oxazole	288-42-6	83
20.9160	0.0101	236	Dimethyl phthalate	131-11-3	86
12.9417	0.0081	187	Cyclopentane, 1,2-dimethyl-, trans-	822-50-4	80
55.2989	0.0080	186	Semioxamazide	515-96-8	83
20.3571	0.0080	185	Ethanone, 1,1'-(1,4-phenylene)bis-	1009-61-6	93
11.2552	0.0078	182	Cyclobutane, butyl-	13152-44-8	89
65.1139	0.0077	179	Pentaethylene glycol	4792-15-8	82
70.1009	0.0076	176	Phthalic acid, bis(2-pentyl) ester	1000315-48-5	82
61.4412	0.0076	176	1-Propanol, 2-(2-hydroxypropoxy)-	106-62-7	83
54.9709	0.0075	174	Hydroperoxide, 1,4-dioxan-2-yl	4722-59-2	81
11.6450	0.0071	166	Benzenemethanol, .alpha.-methyl-.alpha.-(1-methyl-2-propenyl)-	61967-11-1	84
14.3500	0.0069	160	Benzothiazole	95-16-9	85
12.9403	0.0066	153	Cyclopentane, 1,2-dimethyl-, cis-	1192-18-3	90
59.1629	0.0063	145	Phthalic acid, octyl 2-pentyl ester	1000315-48-0	80
45.7827	0.0063	145	1H-1,2,3-Triazole-4-carboxaldehyde	16681-68-8	80
31.6653	0.0062	143	2,3,4,6-Tetramethoxystyrene	48153-74-8	82
26.4772	0.0049	114	Benzenebutanoic acid, 2,5-dimethyl-	1453-06-1	83
11.0312	0.0049	113	Benzene, 1-ethynyl-4-methyl-	766-97-2	95

Concentration estimated using the response for Anthracene-d10

Sample ID: Lab Blank B1_35092

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
33.0949	3.3049	1111	Anthracene-D10	1517-22-2	94
25.5040	0.5588	188	Diethyl Phthalate	84-66-2	98
11.1110	0.3926	132	Hexane, 2-nitro-	14255-44-8	86
18.0465	0.3737	126	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester	77-68-9	96
10.8779	0.3515	118	2H-Pyran-2-methanol, tetrahydro-	100-72-1	84
15.5859	0.3472	117	Phenol, 4-chloro-3-methyl-	59-50-7	94
12.0323	0.3332	112	Nonane, 4-ethyl-5-methyl-	1632-71-9	86

Concentration estimated using the response for Anthracene-d10

CHAIN OF CUSTODY

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:

LOGIN COMMENTS: 2.8°C/ SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 2.9°C IR#3 SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

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

☐ Monrovia _____ °C (Compliance: 4 ± 2 °C) Fed Ex# 5391/5369

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:

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

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

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 ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX*	FIELD DATA	FIELD DATA	8015_C6-C44_Assets	@625 PAHs @625 PAHs	8015 Gas Travel Blank	@625 SIM_PHYSIS	8015 Gas	@VOA SOWA++TICS	@VOA SOWA++TICS													SAMPLER COMMENTS
																										314313
3/4/22	1200		DH43-AQ D2	RGW				4		2	4	4														kit# 308922
			DH43-TB	BW					2				3														Provided by EEA
			[Bottle Size																							

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

* **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	3/9/22	1200
RELINQUISHED BY:		Kevin Gooding	INTERA Incorporated / Senior Hydrogeologis	3/9/22	1430
RECEIVED BY:		Giselle Garcia	ASSET LABS	3/10/22	0950
RELINQUISHED BY:		Leandro Rodriguez	ASSET LABS	3/10/22	1600
RECEIVED BY:		Mounga Nona	PHYSIS	3/11/22	0850 0750

PAGE 1 OF 1

eurofins | Eaton Analytical

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

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

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

Created Date & Time: 3/3/2022 2:49:51PM

Note: Sampler Please return this paper with your samples

Kit #: 314313

Created By: Debbie L Frank - [DEB]
Deliver By: 03/07/2022
STG: Bottle Orders
Ice Type: W

Client ID: HONOLULU
Project Code: INTERA Bottle Orders
Group Name: RUSH Incident Follow-up TPH (2021)
PO#/JOB#: C20525101 exp 05312023
Description: Follow-Up ASSET DH-43, Well No.

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 #
3	@625A_Physis, @625PAH_Physis_TICS	4 - 1L amber glass [no preservative]	12	
3	@625BN_Physis	2 - 1L amber glass [no preservative]	6	
3	TPH 8015 Diesel and Motor Oil	3 - 1L amber glass [no preservative]	9	
3	@8015_C8-C44_ASSETS	0 - 1L amber glass [TPHDM_no pres]	0	
3	8015 Gas	4 - 40ml amber glass vial [1:1 HCL]	12	
3	8015 Gas Travel Blank	2 - 40ml amber glass vial [4 drops of 1:1 HCL + H2O]	6	UN1789
3	@VOASDWA plus plus TICS	4 - 40ml amber glass vial [4drops 6N HCL (36%)]	12	UN1789
3	@VOASDWA plus plus TICS TB	3 - 40ml amber glass vial [4drops of 1:1 HCL + H2O]	9	UN1789

Sum Tests: 24

Sum Bottles: 66

Comments

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

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.

Project Iteration ID: 1407003-231
Client Name: Eurofins Eaton Analytical
Project Name: Folder # 992221 Job # 1000014
COC Page Number: 3 of 3
Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: MN
2. Date Received: 3/11/2022
3. Time Received: ~~08~~ 0750
4. Client Name: Eurofins
5. Courier Information: (Please circle)
   - Client
   - UPS
   - Area Fast
   - DRS
   - FedEx
   - GSO/GLS
   - Ontrac
   - PAMS
   - PHYSIS Driver:
     - i. Start Time:_____
     - ii. End Time:_____
     - iii. Total Mileage:_____
     - iv. Number of Pickups:_____
6. Container Information: (Please put the # of containers or circle none)
   - 2 Cooler
   - __ Styrofoam Cooler
   - ____ Boxes
   - None
   - ___ Carboy(s)
   - __ Carboy Trash Can(s)
   - ____ Carboy Cap(s)
   - Other _____
7. What ~~type~~ of ice was used: (Please circle any that apply)
   - Wet Ice
   - Blue Ice
   - Dry Ice
   - Water
   - None
8. Randomly Selected Samples Temperature (°C): 4.6 Used I/R Thermometer # 1-2

Inspection Info

1. Initials Inspected By: MN

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:

Rich Hanken

From: Misty Mercier <mistymercier@physislabs.com> on behalf of Misty Mercier
Sent: Friday, March 11, 2022 11:35 AM
To: Rich Hanken
Subject: FW: Incoming Palo Rojo related sites - DH43, TAMC#2
Attachments: Eurofins Eaton COC.pdf

Importance: High

Categories: Incomming

From: Frank, Debbie <Debbie.Frank@eurofinset.com>
Sent: Friday, March 11, 2022 12:19 PM
To: Misty Mercier <mistymercier@physislabs.com>; Contreras, Jacylyn <Jaclyn.contreras@eurofinset.com>; Eaton - Monrovia Sub Contract <Eaton-MonroviaSubContract@eurofinset.com>; Haley, Davis <Davis.Haley@eurofinset.com>
Subject: RE: Incoming Palo Rojo related sites - DH43, TAMC#2
Importance: High

Davis - pleasesend pdf of Physis SubCOCs

Misty
yes - including Acids
(I was able to re-confirm with My Client - so yay!)

Yes - separate logins per COC, even though these are duplicates. Already logged EEA 99223, 992221

the D2 is clear on the COCs, thus the other is D1

folderno	ordno	clsampno	rasclientid	sampdate	samptime
992221	202203100633	DH43-AQ D2	HONOLULU	3/7/2022	12:00
992223	202203100637	DH43-AQ D1	HONOLULU	3/7/2022	10:00

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: Misty Mercier <mistymercier@physislabs.com>
Sent: Friday, March 11, 2022 11:10 AM
To: Frank, Debbie <Debbie.Frank@eurofinset.com>
Subject: RE: Incoming Palo Rojo related sites - DH43, TAMC#2

EXTERNAL EMAIL*

Including Acids?

From: Frank, Debbie <Debbie.Frank@eurofinset.com>
Sent: Friday, March 11, 2022 12:02 PM
To: Misty Mercier <mistymercier@physislabs.com>
Cc: Haley, Davis <Davis.Haley@eurofinset.com>; Contreras, Jacylyn <Jaclyn.contreras@eurofinset.com>; Rich Hanken <richhanken@physislabs.com>
Subject: RE: Incoming Palo Rojo related sites - DH43, TAMC#2
Importance: High

I can't get in touch with my client just now - He's in back to back meetings

Run the usual full suite for Palo Rojo for these.

Sorry -
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: Misty Mercier <mistymercier@physislabs.com>
Sent: Friday, March 11, 2022 10:55 AM
To: Frank, Debbie <Debbie.Frank@eurofinset.com>
Cc: Haley, Davis <Davis.Haley@eurofinset.com>; Contreras, Jacylyn <Jaclyn.contreras@eurofinset.com>; Rich Hanken <richhanken@physislabs.com>
Subject: RE: Incoming Palo Rojo related sites - DH43, TAMC#2

EXTERNAL EMAIL*

Hi Deb,
I need confirmation please that it's only Palo Rojo list of PAHs & BN + TICs
No Acids?

Also note that we did receive 6L for each sample so we will do full QC on one of them, but not the other.

Thanks
Misty

From: Misty Mercier <mistymercier@physislabs.com>
Sent: Friday, March 11, 2022 11:01 AM
To: 'Frank, Debbie' <Debbie.Frank@eurofinset.com>
Cc: 'Haley, Davis' <Davis.Haley@eurofinset.com>; 'Contreras, Jacylyn' <Jaclyn.contreras@eurofinset.com>; Rich Hanken <richhanken@physislabs.com>
Subject: RE: Incoming Palo Rojo related sites - DH43, TAMC#2
Importance: High

Hi Deb,

Here's the COC for samples we received today.
Do you want to send me your usual COC or do you want me to log in the "Client Lab ID."
Also, I assume you want a separate report per COC?

Thanks
Misty

From: Frank, Debbie <Debbie.Frank@eurofinset.com>
Sent: Thursday, March 10, 2022 3:07 PM
To: Misty Mercier <mistymercier@physislabs.com>
Cc: Haley, Davis <Davis.Haley@eurofinset.com>; Contreras, Jacylyn <Jaclyn.contreras@eurofinset.com>; Rich Hanken <richhanken@physislabs.com>
Subject: RE: Incoming Palo Rojo related sites - DH43, TAMC#2
Importance: High

Yes - 625PAH+TICS and 625BN (for BCEE+ the rest).

with a couple of twists. My client shipped all to ASSET Labs I will have asset labs direct ship to you for FIRST AM delivery (0800), with copy of Client COC.

The client didn't include containers for some needed testing, so you will only be getting 4 bottles instead of the 6 noted. Insufficient volume for MS/MSD - as always dup LCS' OK if you're not batching with some other client with MS/MSD.

DH43 AQ Samples will be coming from
Asset Laboratories
3151 W. Post Road
Las Vegas, NV
89118
Marlon Cartin
P: 702.307.2659 Ext. 410
M: 702.439.0421

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

eurofins | Eaton Analytical

Submittal Form

Date: 3/11/2022

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

Anaheim, CA 92806-6028

Phone: 714-602-5320 Fax:

Folder #: 992221
Report Due: 03/15/2022

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **992221** 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**

Physis - 8 containers per sample for MS/MSD batch QC. Only report to RL and place a comment in the report stating RL reporting only
2-3 day rush

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202203100633	DH43-AQ D2	03/07/22 1200	DW		JLS

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

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

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras