



ANALYTICAL REPORT

PREPARED FOR

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Honolulu, Hawaii 96843

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JOB DESCRIPTION

Rush Weekly Red Hill HBWS Sites
RUSH Weekly Red Hill

JOB NUMBER

380-27390-1

Eurofins Eaton Monrovia

Job Notes

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

Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

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.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

Authorization



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Authorized for release by
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Definitions/Glossary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Subcontract

Qualifier	Qualifier Description
U	This analyte was not detected.

Glossary

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

Case Narrative

Client: City & County of Honolulu
Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

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Laboratory: Eurofins Eaton Monrovia

Narrative

Job Narrative 380-27390-1

Comments

No additional comments.

GC/MS Semi VOA

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

Subcontract non-Sister

See attached subcontract report.

Organic Prep

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

Subcontract Work

Methods 8015 Gas (Purgeable) LL (EAL), 8015 LL DRO/MRO/JP5/JP8: These methods were subcontracted to EMAX Laboratories Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report.

Method 625 Acid/Base/PAH + TICs: This method was subcontracted to Physis Environmental Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.



Detection Summary

Client: City & County of Honolulu
Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**
PWSID Number: HI0000331

Lab Sample ID: 380-27390-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic Acid	0.285		0.2	0.1	µg/L	1		625 Acid/Base/PAH + TICs	Total/NA

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**
PWSID Number: HI0000331

Lab Sample ID: 380-27390-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic Acid	0.279		0.2	0.1	µg/L	1		625 Acid/Base/PAH + TICs	Total/NA

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**
PWSID Number: HI0000331

Lab Sample ID: 380-27390-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic Acid	0.231		0.2	0.1	µg/L	1		625 Acid/Base/PAH + TICs	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**
PWSID Number: HI0000331

Lab Sample ID: 380-27390-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic Acid	0.248		0.2	0.1	µg/L	1		625 Acid/Base/PAH + TICs	Total/NA

Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)

Lab Sample ID: 380-27390-5

No Detections.

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-27390-6

No Detections.

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-27390-7

No Detections.

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)**

Lab Sample ID: 380-27390-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
 (331-201-TP071)**

Lab Sample ID: 380-27390-1

Date Collected: 11/07/22 10:43

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
2,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
2,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
2,4-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
2,6-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
4,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
4,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
4,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Acenaphthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Acenaphthylene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Acetochlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Alachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
alpha-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
alpha-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Anthracene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 12:46	1
Atrazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Benz(a)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Benzo[a]pyrene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 12:46	1
Benzo[b]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 12:46	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Benzo[k]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 12:46	1
beta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Bromacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Butachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Butylbenzylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 12:46	1
Caffeine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Chlorobenzilate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Chloroneb	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Chlorpyrifos	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Chrysene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 12:46	1
delta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 12:46	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 12:46	1
Diazinon (Qualitative)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Diclorvos (DDVP)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Dieldrin	ND		0.20	ug/L		11/12/22 09:24	11/14/22 12:46	1
Diethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 12:46	1
Dimethoate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Dimethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 12:46	1
Di-n-butyl phthalate	ND		0.98	ug/L		11/12/22 09:24	11/14/22 12:46	1
Di-n-octyl phthalate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Endosulfan I (Alpha)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Endosulfan II (Beta)	ND	^3+	0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Endosulfan sulfate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Endrin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Endrin aldehyde	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
 (331-201-TP071)**

Lab Sample ID: 380-27390-1

Date Collected: 11/07/22 10:43

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Fluoranthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Fluorene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
gamma-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Heptachlor	ND		0.039	ug/L		11/12/22 09:24	11/14/22 12:46	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Hexachlorobenzene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Isophorone	ND		0.49	ug/L		11/12/22 09:24	11/14/22 12:46	1
Lindane	ND		0.039	ug/L		11/12/22 09:24	11/14/22 12:46	1
Malathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Methoxychlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Metolachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Metribuzin	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Molinate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Naphthalene	ND		0.29	ug/L		11/12/22 09:24	11/14/22 12:46	1
Parathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		11/12/22 09:24	11/14/22 12:46	1
Phenanthrene	ND		0.039	ug/L		11/12/22 09:24	11/14/22 12:46	1
Propachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Simazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Terbacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Terbutylazine	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1
Thiobencarb	ND		0.20	ug/L		11/12/22 09:24	11/14/22 12:46	1
trans-Nonachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 12:46	1
Trifluralin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 12:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.72	T J	ug/L		6.62		11/12/22 09:24	11/14/22 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	11/12/22 09:24	11/14/22 12:46	1
Triphenylphosphate	110		70 - 130	11/12/22 09:24	11/14/22 12:46	1
Perylene-d12	99		70 - 130	11/12/22 09:24	11/14/22 12:46	1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
 (331-201-TP071)**

Lab Sample ID: 380-27390-1

Date Collected: 11/07/22 10:43

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Chlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
2-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
3-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
4-Chloroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
4-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
4-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Acenaphthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Acenaphthylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Aniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzidine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzoic Acid	0.285		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
Biphenyl	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Chrysene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Dibenzofuran	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Dibenzothiophene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Disalicylidenepropanediamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Fluorene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Hexachloroethane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Naphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Nitrobenzene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
 (331-201-TP071)**

Lab Sample ID: 380-27390-1

Date Collected: 11/07/22 10:43

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Pentachlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Phenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1
Phenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 21:53	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 21:53	1
Pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
(2,4,6-Tribromophenol)	47		31 - 143	11/14/22 00:00	12/13/22 21:53	1
(d10-Acenaphthene)	82		45 - 118	11/14/22 00:00	12/13/22 21:53	1
(d10-Phenanthrene)	82		56 - 123	11/14/22 00:00	12/13/22 21:53	1
(d12-Chrysene)	86		36 - 142	11/14/22 00:00	12/13/22 21:53	1
(d12-Perylene)	69		36 - 161	11/14/22 00:00	12/13/22 21:53	1
(d5-Phenol)	19		0 - 85	11/14/22 00:00	12/13/22 21:53	1
(d8-Naphthalene)	67		20 - 112	11/14/22 00:00	12/13/22 21:53	1

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	102		60 - 140		11/10/22 14:38	1

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.027		mg/L			11/11/22 19:41	1
JP5	ND	U	0.055		mg/L			11/11/22 19:41	1
JP8	ND	U	0.055		mg/L			11/11/22 19:41	1
MOTOR OIL	ND	U	0.055		mg/L			11/11/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
BROMOBENZENE	99		60 - 130		11/11/22 19:41	1
HEXACOSANE	102		60 - 130		11/11/22 19:41	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-27390-2

Date Collected: 11/07/22 11:05

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
2,4'-DDE	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
2,4'-DDT	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
2,4-Dinitrotoluene	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
2,6-Dinitrotoluene	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
4,4'-DDD	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
4,4'-DDE	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
4,4'-DDT	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-27390-2

Date Collected: 11/07/22 11:05

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Acenaphthylene	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Acetochlor	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Alachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
alpha-BHC	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
alpha-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Anthracene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:06	1
Atrazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Benz(a)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Benzo[a]pyrene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:06	1
Benzo[b]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:06	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Benzo[k]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:06	1
beta-BHC	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Bromacil	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Butachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Butylbenzylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:06	1
Caffeine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Chlorobenzilate	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Chloroneb	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Chlorothalonil (Draconil, Bravo)	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Chlorpyrifos	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Chrysene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:06	1
delta-BHC	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 13:06	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 13:06	1
Diazinon (Qualitative)	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Diclorvos (DDVP)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Dieldrin	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:06	1
Diethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:06	1
Dimethoate	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Dimethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:06	1
Di-n-butyl phthalate	ND		0.99	ug/L		11/12/22 09:24	11/14/22 13:06	1
Di-n-octyl phthalate	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Endosulfan I (Alpha)	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Endosulfan II (Beta)	ND	^3+	0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Endosulfan sulfate	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Endrin	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Endrin aldehyde	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
EPTC	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Fluoranthene	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Fluorene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
gamma-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Heptachlor	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:06	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Hexachlorobenzene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-27390-2

Date Collected: 11/07/22 11:05

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Isophorone	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:06	1
Lindane	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:06	1
Malathion	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Methoxychlor	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Metolachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Metribuzin	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Molinate	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Naphthalene	ND		0.30	ug/L		11/12/22 09:24	11/14/22 13:06	1
Parathion	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Pendimethalin (Penoxaline)	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:06	1
Phenanthrene	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:06	1
Propachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Simazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Terbacil	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Terbutylazine	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1
Thiobencarb	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:06	1
trans-Nonachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:06	1
Trifluralin	ND		0.099	ug/L		11/12/22 09:24	11/14/22 13:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.1	T J	ug/L		2.28		11/12/22 09:24	11/14/22 13:06	1
Unknown	0.84	T J	ug/L		6.62		11/12/22 09:24	11/14/22 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	11/12/22 09:24	11/14/22 13:06	1
Triphenylphosphate	115		70 - 130	11/12/22 09:24	11/14/22 13:06	1
Perylene-d12	98		70 - 130	11/12/22 09:24	11/14/22 13:06	1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2-Chlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
2-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-27390-2

Date Collected: 11/07/22 11:05

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
2-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
3-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
4-Chloroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
4-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
4-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Acenaphthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Acenaphthylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Aniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzidine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzoic Acid	0.279		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
Biphenyl	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Chrysene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Dibenzofuran	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Dibenzothiophene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Disalicylidenepropanediamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Fluorene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Hexachloroethane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Naphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Nitrobenzene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Pentachlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Phenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1
Phenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 23:40	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 23:40	1
Pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 23:40	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-27390-2

Date Collected: 11/07/22 11:05

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
(2,4,6-Tribromophenol)	46		31 - 143	11/14/22 00:00	12/13/22 23:40	1
(d10-Acenaphthene)	87		45 - 118	11/14/22 00:00	12/13/22 23:40	1
(d10-Phenanthrene)	85		56 - 123	11/14/22 00:00	12/13/22 23:40	1
(d12-Chrysene)	83		36 - 142	11/14/22 00:00	12/13/22 23:40	1
(d12-Perylene)	60		36 - 161	11/14/22 00:00	12/13/22 23:40	1
(d5-Phenol)	19		0 - 85	11/14/22 00:00	12/13/22 23:40	1
(d8-Naphthalene)	69		20 - 112	11/14/22 00:00	12/13/22 23:40	1

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	103		60 - 140		11/10/22 16:27	1

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.026		mg/L			11/11/22 19:59	1
JP5	ND	U	0.052		mg/L			11/11/22 19:59	1
JP8	ND	U	0.052		mg/L			11/11/22 19:59	1
MOTOR OIL	ND	U	0.052		mg/L			11/11/22 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
BROMOBENZENE	97		60 - 130		11/11/22 19:59	1
HEXACOSANE	113		60 - 130		11/11/22 19:59	1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-27390-3

Date Collected: 11/07/22 09:38

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
2,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
2,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
2,4-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
2,6-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
4,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
4,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
4,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Acenaphthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Acenaphthylene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Acetochlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Alachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
alpha-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
alpha-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Anthracene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:27	1
Atrazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Benz(a)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-27390-3

Date Collected: 11/07/22 09:38

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:27	1
Benzo[b]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:27	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Benzo[k]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:27	1
beta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Bromacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Butachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Butylbenzylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:27	1
Caffeine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Chlorobenzilate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Chloroneb	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Chlorpyrifos	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Chrysene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:27	1
delta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 13:27	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 13:27	1
Diazinon (Qualitative)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Diclorvos (DDVP)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Dieldrin	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:27	1
Diethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:27	1
Dimethoate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Dimethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:27	1
Di-n-butyl phthalate	ND		0.98	ug/L		11/12/22 09:24	11/14/22 13:27	1
Di-n-octyl phthalate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Endosulfan I (Alpha)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Endosulfan II (Beta)	ND	^3+	0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Endosulfan sulfate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Endrin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Endrin aldehyde	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
EPTC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Fluoranthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Fluorene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
gamma-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Heptachlor	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:27	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Hexachlorobenzene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Isophorone	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:27	1
Lindane	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:27	1
Malathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Methoxychlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Metolachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Metribuzin	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Molinate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Naphthalene	ND		0.29	ug/L		11/12/22 09:24	11/14/22 13:27	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-27390-3

Date Collected: 11/07/22 09:38

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:27	1
Phenanthrene	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:27	1
Propachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Simazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Terbacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Terbutylazine	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1
Thiobencarb	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:27	1
trans-Nonachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:27	1
Trifluralin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				11/12/22 09:24	11/14/22 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	11/12/22 09:24	11/14/22 13:27	1
Triphenylphosphate	115		70 - 130	11/12/22 09:24	11/14/22 13:27	1
Perylene-d12	100		70 - 130	11/12/22 09:24	11/14/22 13:27	1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Chlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
2-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
3-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
4-Chloroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
4-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
4-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-27390-3

Date Collected: 11/07/22 09:38

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Acenaphthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Acenaphthylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Aniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzidine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzoic Acid	0.231		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
Biphenyl	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Chrysene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Dibenzofuran	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Dibenzothiophene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Disalicylidenepropanediamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Fluorene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Hexachloroethane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Naphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Nitrobenzene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Pentachlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Phenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1
Phenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 01:26	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 01:26	1
Pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
(2,4,6-Tribromophenol)	46		31 - 143	11/14/22 00:00	12/14/22 01:26	1
(d10-Acenaphthene)	89		45 - 118	11/14/22 00:00	12/14/22 01:26	1
(d10-Phenanthrene)	87		56 - 123	11/14/22 00:00	12/14/22 01:26	1
(d12-Chrysene)	92		36 - 142	11/14/22 00:00	12/14/22 01:26	1
(d12-Perylene)	71		36 - 161	11/14/22 00:00	12/14/22 01:26	1
(d5-Phenol)	18		0 - 85	11/14/22 00:00	12/14/22 01:26	1
(d8-Naphthalene)	85		20 - 112	11/14/22 00:00	12/14/22 01:26	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-27390-3

Date Collected: 11/07/22 09:38

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	101		60 - 140					11/10/22 17:04	1

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.025		mg/L			11/11/22 20:17	1
JP5	ND	U	0.049		mg/L			11/11/22 20:17	1
JP8	ND	U	0.049		mg/L			11/11/22 20:17	1
MOTOR OIL	ND	U	0.049		mg/L			11/11/22 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
BROMOBENZENE	80		60 - 130					11/11/22 20:17	1
HEXACOSANE	105		60 - 130					11/11/22 20:17	1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-27390-4

Date Collected: 11/07/22 10:09

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
2,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
2,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
2,4-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
2,6-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
4,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
4,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
4,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Acenaphthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Acenaphthylene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Acetochlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Alachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
alpha-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
alpha-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Anthracene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:47	1
Atrazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Benz(a)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Benzo[a]pyrene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:47	1
Benzo[b]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:47	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Benzo[k]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:47	1
beta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Bromacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Butachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Butylbenzylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:47	1
Caffeine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-27390-4

Date Collected: 11/07/22 10:09

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzilate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Chloroneb	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Chlorpyrifos	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Chrysene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 13:47	1
delta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 13:47	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 13:47	1
Diazinon (Qualitative)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Diclorvos (DDVP)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Dieldrin	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:47	1
Diethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:47	1
Dimethoate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Dimethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:47	1
Di-n-butyl phthalate	ND		0.98	ug/L		11/12/22 09:24	11/14/22 13:47	1
Di-n-octyl phthalate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Endosulfan I (Alpha)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Endosulfan II (Beta)	ND	^3+	0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Endosulfan sulfate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Endrin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Endrin aldehyde	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
EPTC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Fluoranthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Fluorene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
gamma-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Heptachlor	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:47	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Hexachlorobenzene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Isophorone	ND		0.49	ug/L		11/12/22 09:24	11/14/22 13:47	1
Lindane	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:47	1
Malathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Methoxychlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Metolachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Metribuzin	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Molinate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Naphthalene	ND		0.29	ug/L		11/12/22 09:24	11/14/22 13:47	1
Parathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:47	1
Phenanthrene	ND		0.039	ug/L		11/12/22 09:24	11/14/22 13:47	1
Propachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Simazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Terbacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1
Terbutylazine	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1

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Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-27390-4

Date Collected: 11/07/22 10:09

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Thiobencarb	ND		0.20	ug/L		11/12/22 09:24	11/14/22 13:47	1
trans-Nonachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 13:47	1
Trifluralin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 13:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,3-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	0.59	T J N	ug/L		10.12	137-89-3	11/12/22 09:24	11/14/22 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	11/12/22 09:24	11/14/22 13:47	1
Triphenylphosphate	113		70 - 130	11/12/22 09:24	11/14/22 13:47	1
Perylene-d12	100		70 - 130	11/12/22 09:24	11/14/22 13:47	1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Chlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
2-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
3-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
4-Chloroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
4-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
4-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Acenaphthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Acenaphthylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Aniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzidine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1

Eurofins Eaton Monrovia

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-27390-4

Date Collected: 11/07/22 10:09

Matrix: Drinking Water

Date Received: 11/08/22 10:00

PWSID Number: HI0000331

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzoic Acid	0.248		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
Biphenyl	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Chrysene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Dibenzofuran	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Dibenzothiophene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Disalicylidenepropanediamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Fluorene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Hexachloroethane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Naphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Nitrobenzene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Pentachlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Phenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1
Phenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/14/22 03:13	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/14/22 03:13	1
Pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/14/22 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
(2,4,6-Tribromophenol)	47		31 - 143	11/14/22 00:00	12/14/22 03:13	1
(d10-Acenaphthene)	88		45 - 118	11/14/22 00:00	12/14/22 03:13	1
(d10-Phenanthrene)	86		56 - 123	11/14/22 00:00	12/14/22 03:13	1
(d12-Chrysene)	92		36 - 142	11/14/22 00:00	12/14/22 03:13	1
(d12-Perylene)	68		36 - 161	11/14/22 00:00	12/14/22 03:13	1
(d5-Phenol)	21		0 - 85	11/14/22 00:00	12/14/22 03:13	1
(d8-Naphthalene)	73		20 - 112	11/14/22 00:00	12/14/22 03:13	1

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	103		60 - 140		11/10/22 17:40	1

Client Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)

Lab Sample ID: 380-27390-4

Date Collected: 11/07/22 10:09
 Date Received: 11/08/22 10:00

Matrix: Drinking Water
 PWSID Number: HI0000331

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.026		mg/L			11/11/22 20:36	1
JP5	ND	U	0.052		mg/L			11/11/22 20:36	1
JP8	ND	U	0.052		mg/L			11/11/22 20:36	1
MOTOR OIL	ND	U	0.052		mg/L			11/11/22 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
BROMOBENZENE	108		60 - 130					11/11/22 20:36	1
HEXACOSANE	108		60 - 130					11/11/22 20:36	1

Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)

Lab Sample ID: 380-27390-5

Date Collected: 11/07/22 10:43
 Date Received: 11/08/22 10:00

Matrix: Water

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	87		60 - 140					11/10/22 18:53	1

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-27390-6

Date Collected: 11/07/22 11:05
 Date Received: 11/08/22 10:00

Matrix: Water

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	92		60 - 140					11/10/22 19:30	1

Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)

Lab Sample ID: 380-27390-7

Date Collected: 11/07/22 10:09
 Date Received: 11/08/22 10:00

Matrix: Water

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	97		60 - 140					11/10/22 20:06	1

Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)

Lab Sample ID: 380-27390-8

Date Collected: 11/07/22 09:38
 Date Received: 11/08/22 10:00

Matrix: Water

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			11/10/22 20:43	1

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Client Sample Results

Client: City & County of Honolulu
Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)**

Lab Sample ID: 380-27390-8

Date Collected: 11/07/22 09:38

Matrix: Water

Date Received: 11/08/22 10:00

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
BROMOFLUOROBENZENE	96		60 - 140		11/10/22 20:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Action Limit Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-27390-1

(331-201-TP071)

PWSID Number: HI0000331

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Alachlor	ND		ug/L	2	0.049	525.2	Total/NA
Atrazine	ND		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.020	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400	0.59	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.59	525.2	Total/NA
Endrin	ND		ug/L	2	0.098	525.2	Total/NA
Heptachlor	ND		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.049	525.2	Total/NA
Lindane	ND		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.098	525.2	Total/NA
Simazine	ND		ug/L	4	0.049	525.2	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-27390-2

(331-202-TP072)

PWSID Number: HI0000331

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Alachlor	ND		ug/L	2	0.049	525.2	Total/NA
Atrazine	ND		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.020	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400	0.59	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.59	525.2	Total/NA
Endrin	ND		ug/L	2	0.099	525.2	Total/NA
Heptachlor	ND		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.049	525.2	Total/NA
Lindane	ND		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.099	525.2	Total/NA
Simazine	ND		ug/L	4	0.049	525.2	Total/NA

Action Limit Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Client Sample ID: HALAWA WELLS UNITS 1 & 2
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-27390-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Alachlor	ND		ug/L	2	0.049	525.2	Total/NA
Atrazine	ND		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.020	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400	0.59	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.59	525.2	Total/NA
Endrin	ND		ug/L	2	0.098	525.2	Total/NA
Heptachlor	ND		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.049	525.2	Total/NA
Lindane	ND		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.098	525.2	Total/NA
Simazine	ND		ug/L	4	0.049	525.2	Total/NA

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-27390-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Alachlor	ND		ug/L	2	0.049	525.2	Total/NA
Atrazine	ND		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.020	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400	0.59	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.59	525.2	Total/NA
Endrin	ND		ug/L	2	0.098	525.2	Total/NA
Heptachlor	ND		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.049	525.2	Total/NA
Lindane	ND		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.098	525.2	Total/NA
Simazine	ND		ug/L	4	0.049	525.2	Total/NA

Surrogate Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	TPP (70-130)	PRY (70-130)
380-27390-1	AIEA GULCH WELLS PUMP 1 (	98	110	99
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	98	115	98
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	98	115	100
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	97	113	100

Surrogate Legend

2NMX = 2-Nitro-m-xylene
 TPP = Triphenylphosphate
 PRY = Perylene-d12

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	TPP (70-130)	PRY (70-130)
380-27564-D-1-A DU	Duplicate	98	114	99
380-27552-BW-1-A MS	Matrix Spike	99	108	97
LCS 380-24110/3-A	Lab Control Sample	98	104	97
LCS 380-24110/4-A	Lab Control Sample Dup	99	99	98
MB 380-24110/1-A	Method Blank	98	112	97
MRL 380-24110/2-A	Lab Control Sample	98	109	97

Surrogate Legend

2NMX = 2-Nitro-m-xylene
 TPP = Triphenylphosphate
 PRY = Perylene-d12

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Matrix: BlankMatrix

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		Acenaphtl (27-133)	Phenanth (43-129)	CRY (52-144)	NPT (25-125)	PHL (0-130)	PRY (36-161)	TBP (30-130)
101671-B1	Method Blank	88	87	90	94	51	67	49
101671-BS1	Lab Control Sample	96	90	91	93	43	84	58
101671-BS2	Lab Control Sample Dup	73	85	86	84	40	85	57

Surrogate Legend

(d10-Acenaphthene) = (d10-Acenaphthene)
 (d10-Phenanthrene) = (d10-Phenanthrene)
 CRY = (d12-Chrysene)
 NPT = (d8-Naphthalene)
 PHL = (d5-Phenol)
 PRY = (d12-Perylene)
 TBP = (2,4,6-Tribromophenol)

Surrogate Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		Acenaphtl (45-118)	Phenanth (56-123)	CRY (36-142)	NPT (20-112)	PHL (0-85)	PRY (36-161)	TBP (31-143)
380-27390-1	AIEA GULCH WELLS PUMP 1 (	82	82	86	67	19	69	47
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	87	85	83	69	19	60	46
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	89	87	92	85	18	71	46
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	88	86	92	73	21	68	47

Surrogate Legend

(d10-Acenaphthene) = (d10-Acenaphthene)
 (d10-Phenanthrene) = (d10-Phenanthrene)
 CRY = (d12-Chrysene)
 NPT = (d8-Naphthalene)
 PHL = (d5-Phenol)
 PRY = (d12-Perylene)
 TBP = (2,4,6-Tribromophenol)

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB (60-140)
380-27390-1	AIEA GULCH WELLS PUMP 1 (	102
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	103
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	101
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	103

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB
22VGH7K06B	Method Blank	

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB (70-130)
22VGH7K06C	LCD	116
22VGH7K06L	Lab Control Sample	113

Surrogate Legend

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Surrogate Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites
 BFB = BROMOFLUOROBENZENE

Job ID: 380-27390-1

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
380-27390-5	TB:AIEA GULCH WELLS P1 (331-202-TP072)	87
380-27390-6	TB:AIEA GULCH WELLS P2 (331-202-TP072)	92
380-27390-7	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	97
380-27390-8	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	96

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
22K104-01M	Matrix Spike	112
22K104-01S	Matrix Spike Duplicate	114

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BB (60-130)	HEXACOSANE (60-130)
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-202-TP072)	99	102
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97	113
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	80	105
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	108	108

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: WATER

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BB	HEXACOSANE
22DSK016WB	Method Blank		

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

Surrogate Summary

Client: City & County of Honolulu
Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: WATER

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BB (60-130)	HEXACOSANE (60-130)
22DSK016WC	LCD	101	103
22DSK016WL	Lab Control Sample	101	105
22J5K016WC	LCD	97	94
22J5K016WL	Lab Control Sample	99	106
22J8K016WC	LCD	93	88
22J8K016WL	Lab Control Sample	95	105

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-24110/1-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24110

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
2,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
2,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
2,4-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
2,6-Dinitrotoluene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
4,4'-DDD	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
4,4'-DDE	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
4,4'-DDT	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Acenaphthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Acenaphthylene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Acetochlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Alachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
alpha-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
alpha-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Anthracene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 10:05	1
Atrazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Benz(a)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Benzo[a]pyrene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 10:05	1
Benzo[b]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 10:05	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Benzo[k]fluoranthene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 10:05	1
beta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Bromacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Butachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Butylbenzylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 10:05	1
Caffeine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Chlorobenzilate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Chloroneb	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Chlorpyrifos	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Chrysene	ND		0.020	ug/L		11/12/22 09:24	11/14/22 10:05	1
delta-BHC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 10:05	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		11/12/22 09:24	11/14/22 10:05	1
Diazinon (Qualitative)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Diclorvos (DDVP)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Dieldrin	ND		0.20	ug/L		11/12/22 09:24	11/14/22 10:05	1
Diethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 10:05	1
Dimethoate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Dimethylphthalate	ND		0.49	ug/L		11/12/22 09:24	11/14/22 10:05	1
Di-n-butyl phthalate	ND		0.98	ug/L		11/12/22 09:24	11/14/22 10:05	1
Di-n-octyl phthalate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Endosulfan I (Alpha)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Endosulfan II (Beta)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Endosulfan sulfate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Endrin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Endrin aldehyde	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1

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QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-24110/1-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24110

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Fluoranthene	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Fluorene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
gamma-Chlordane	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Heptachlor	ND		0.039	ug/L		11/12/22 09:24	11/14/22 10:05	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Hexachlorobenzene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Isophorone	ND		0.49	ug/L		11/12/22 09:24	11/14/22 10:05	1
Lindane	ND		0.039	ug/L		11/12/22 09:24	11/14/22 10:05	1
Malathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Methoxychlor	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Metolachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Metribuzin	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Molinate	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Naphthalene	ND		0.29	ug/L		11/12/22 09:24	11/14/22 10:05	1
Parathion	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		11/12/22 09:24	11/14/22 10:05	1
Phenanthrene	ND		0.039	ug/L		11/12/22 09:24	11/14/22 10:05	1
Propachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Pyrene	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Simazine	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Terbacil	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Terbutylazine	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1
Thiobencarb	ND		0.20	ug/L		11/12/22 09:24	11/14/22 10:05	1
trans-Nonachlor	ND		0.049	ug/L		11/12/22 09:24	11/14/22 10:05	1
Trifluralin	ND		0.098	ug/L		11/12/22 09:24	11/14/22 10:05	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Cyclopentane, 1,2,3,4,5-pentamethyl-</i>	0.980	T J N	ug/L		2.29	1000152-79-7	11/12/22 09:24	11/14/22 10:05	1
<i>Sulfurous acid, cyclohexylmethyl octadecyl ester</i>	0.972	T J N	ug/L		2.37	1000309-22-6	11/12/22 09:24	11/14/22 10:05	1
<i>Unknown</i>	2.04	T J	ug/L		2.49		11/12/22 09:24	11/14/22 10:05	1
<i>n-Hexadecanoic acid</i>	2.76	T J N	ug/L		5.94	57-10-3	11/12/22 09:24	11/14/22 10:05	1
<i>Unknown</i>	4.34	T J	ug/L		6.64		11/12/22 09:24	11/14/22 10:05	1
<i>Hexadecanamide</i>	0.948	T J N	ug/L		6.81	629-54-9	11/12/22 09:24	11/14/22 10:05	1
<i>9-Octadecenamide, (Z)-</i>	10.8	T J N	ug/L		7.70	301-02-0	11/12/22 09:24	11/14/22 10:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	11/12/22 09:24	11/14/22 10:05	1
Triphenylphosphate	112		70 - 130	11/12/22 09:24	11/14/22 10:05	1
Perylene-d12	97		70 - 130	11/12/22 09:24	11/14/22 10:05	1

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QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-24110/3-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.96	1.97		ug/L		101	70 - 130
2,4'-DDE	1.96	1.74		ug/L		89	70 - 130
2,4'-DDT	1.96	1.87		ug/L		96	70 - 130
2,4-Dinitrotoluene	1.96	1.88		ug/L		96	70 - 130
2,6-Dinitrotoluene	1.96	2.11		ug/L		108	70 - 130
4,4'-DDD	1.96	1.90		ug/L		97	70 - 130
4,4'-DDE	1.96	1.92		ug/L		98	70 - 130
4,4'-DDT	1.96	1.78		ug/L		91	70 - 130
Acenaphthene	1.96	1.89		ug/L		97	70 - 130
Acenaphthylene	1.96	2.07		ug/L		106	70 - 130
Acetochlor	1.96	2.02		ug/L		103	70 - 130
Alachlor	1.96	2.01		ug/L		103	70 - 130
alpha-BHC	1.96	1.90		ug/L		97	70 - 130
alpha-Chlordane	1.96	2.12		ug/L		108	70 - 130
Anthracene	1.96	1.95		ug/L		100	70 - 130
Atrazine	1.96	2.14		ug/L		109	70 - 130
Benz(a)anthracene	1.96	2.00		ug/L		102	70 - 130
Benzo[a]pyrene	1.96	2.16		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.96	2.20		ug/L		112	70 - 130
Benzo[g,h,i]perylene	1.96	2.19		ug/L		112	70 - 130
Benzo[k]fluoranthene	1.96	2.14		ug/L		109	70 - 130
beta-BHC	1.96	1.83		ug/L		94	70 - 130
Bromacil	1.96	2.41		ug/L		123	70 - 130
Butachlor	1.96	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	1.96	2.26		ug/L		115	70 - 130
Caffeine	1.96	1.78		ug/L		91	45 - 137
Chlorobenzilate	1.96	2.37		ug/L		121	70 - 130
Chloroneb	1.96	2.03		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	1.85		ug/L		94	70 - 130
Chlorpyrifos	1.96	2.10		ug/L		107	70 - 130
Chrysene	1.96	2.08		ug/L		106	70 - 130
delta-BHC	1.96	1.86		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.28		ug/L		117	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	2.05		ug/L		105	70 - 130
Diazinon (Qualitative)	1.96	2.04		ug/L		105	15 - 132
Dibenz(a,h)anthracene	1.96	2.31		ug/L		118	70 - 130
Diclorvos (DDVP)	1.96	2.24		ug/L		115	70 - 130
Dieldrin	1.96	1.82		ug/L		93	70 - 130
Diethylphthalate	1.96	2.04		ug/L		104	70 - 130
Dimethoate	1.96	1.72		ug/L		88	35 - 100
Dimethylphthalate	1.96	2.08		ug/L		107	70 - 130
Di-n-butyl phthalate	3.91	3.80		ug/L		97	70 - 130
Di-n-octyl phthalate	1.96	2.01		ug/L		103	70 - 130
Endosulfan I (Alpha)	1.96	1.95		ug/L		100	70 - 130
Endosulfan II (Beta)	1.96	1.98		ug/L		101	70 - 130
Endosulfan sulfate	1.96	1.83		ug/L		94	70 - 130
Endrin	1.96	2.29		ug/L		117	70 - 130
Endrin aldehyde	1.96	1.86		ug/L		95	70 - 130

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QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-24110/3-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
EPTC	1.96	2.11		ug/L		108	70 - 130
Fluoranthene	1.96	2.02		ug/L		103	70 - 130
Fluorene	1.96	1.97		ug/L		101	70 - 130
gamma-Chlordane	1.96	2.13		ug/L		109	70 - 130
Heptachlor	1.96	1.90		ug/L		97	70 - 130
Heptachlor epoxide (isomer B)	1.96	2.05		ug/L		105	70 - 130
Hexachlorobenzene	1.96	1.93		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.96	1.78		ug/L		91	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.25		ug/L		115	70 - 130
Isophorone	1.96	2.13		ug/L		109	70 - 130
Lindane	1.96	1.80		ug/L		92	70 - 130
Malathion	1.96	2.24		ug/L		114	70 - 130
Methoxychlor	1.96	2.13		ug/L		109	70 - 130
Metolachlor	1.96	2.04		ug/L		104	70 - 130
Metribuzin	1.96	1.89		ug/L		97	70 - 130
Molinate	1.96	2.16		ug/L		110	70 - 130
Naphthalene	1.96	1.85		ug/L		95	70 - 130
Parathion	1.96	2.44		ug/L		125	70 - 130
Pendimethalin (Penoxaline)	1.96	1.75		ug/L		89	70 - 130
Phenanthrene	1.96	1.99		ug/L		102	70 - 130
Propachlor	1.96	2.00		ug/L		102	70 - 130
Pyrene	1.96	2.03		ug/L		104	70 - 130
Simazine	1.96	2.28		ug/L		117	70 - 130
Terbacil	1.96	2.23		ug/L		114	70 - 130
Terbutylazine	1.96	2.13		ug/L		109	70 - 130
Thiobencarb	1.96	2.15		ug/L		110	70 - 130
trans-Nonachlor	1.96	2.01		ug/L		103	70 - 130
Trifluralin	1.96	1.61		ug/L		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Triphenylphosphate	104		70 - 130
Perylene-d12	97		70 - 130

Lab Sample ID: LCSD 380-24110/4-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4'-DDD	1.95	1.89		ug/L		97	70 - 130	4	20
2,4'-DDE	1.95	1.68		ug/L		86	70 - 130	3	20
2,4'-DDT	1.95	1.78		ug/L		91	70 - 130	5	20
2,4-Dinitrotoluene	1.95	1.71		ug/L		87	70 - 130	9	20
2,6-Dinitrotoluene	1.95	2.03		ug/L		104	70 - 130	4	20
4,4'-DDD	1.95	1.80		ug/L		92	70 - 130	5	20
4,4'-DDE	1.95	1.82		ug/L		93	70 - 130	5	20
4,4'-DDT	1.95	1.69		ug/L		87	70 - 130	5	20
Acenaphthene	1.95	1.89		ug/L		97	70 - 130	0	20

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-24110/4-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Acenaphthylene	1.95	2.02		ug/L		103	70 - 130	2	20	
Acetochlor	1.95	1.99		ug/L		102	70 - 130	2	20	
Alachlor	1.95	1.97		ug/L		101	70 - 130	2	20	
alpha-BHC	1.95	1.80		ug/L		92	70 - 130	5	20	
alpha-Chlordane	1.95	2.06		ug/L		105	70 - 130	3	20	
Anthracene	1.95	1.89		ug/L		97	70 - 130	3	20	
Atrazine	1.95	2.00		ug/L		102	70 - 130	7	20	
Benz(a)anthracene	1.95	1.86		ug/L		95	70 - 130	7	20	
Benzo[a]pyrene	1.95	2.16		ug/L		111	70 - 130	0	20	
Benzo[b]fluoranthene	1.95	2.17		ug/L		111	70 - 130	1	20	
Benzo[g,h,i]perylene	1.95	2.22		ug/L		114	70 - 130	1	20	
Benzo[k]fluoranthene	1.95	2.16		ug/L		111	70 - 130	1	20	
beta-BHC	1.95	1.74		ug/L		89	70 - 130	5	20	
Bromacil	1.95	2.26		ug/L		116	70 - 130	6	20	
Butachlor	1.95	1.96		ug/L		100	70 - 130	6	20	
Butylbenzylphthalate	1.95	2.17		ug/L		111	70 - 130	4	20	
Caffeine	1.95	1.66		ug/L		85	45 - 137	7	20	
Chlorobenzilate	1.95	2.24		ug/L		115	70 - 130	5	20	
Chloroneb	1.95	1.95		ug/L		100	70 - 130	4	20	
Chlorothalonil (Draconil, Bravo)	1.95	1.78		ug/L		91	70 - 130	4	20	
Chlorpyrifos	1.95	2.05		ug/L		105	70 - 130	2	20	
Chrysene	1.95	1.99		ug/L		102	70 - 130	4	20	
delta-BHC	1.95	1.79		ug/L		92	70 - 130	4	20	
Di(2-ethylhexyl)adipate	1.95	2.15		ug/L		110	70 - 130	6	20	
Bis(2-ethylhexyl) phthalate	1.95	2.03		ug/L		104	70 - 130	1	20	
Diazinon (Qualitative)	1.95	1.97		ug/L		101	15 - 132	4	20	
Dibenz(a,h)anthracene	1.95	2.33		ug/L		119	70 - 130	1	20	
Diclorvos (DDVP)	1.95	2.20		ug/L		113	70 - 130	2	20	
Dieldrin	1.95	1.78		ug/L		91	70 - 130	2	20	
Diethylphthalate	1.95	1.93		ug/L		99	70 - 130	5	20	
Dimethoate	1.95	1.50		ug/L		77	35 - 100	13	20	
Dimethylphthalate	1.95	2.03		ug/L		104	70 - 130	3	20	
Di-n-butyl phthalate	3.91	3.72		ug/L		95	70 - 130	2	20	
Di-n-octyl phthalate	1.95	1.90		ug/L		97	70 - 130	5	20	
Endosulfan I (Alpha)	1.95	1.88		ug/L		96	70 - 130	4	20	
Endosulfan II (Beta)	1.95	1.94		ug/L		99	70 - 130	2	20	
Endosulfan sulfate	1.95	1.76		ug/L		90	70 - 130	4	20	
Endrin	1.95	2.22		ug/L		114	70 - 130	3	20	
Endrin aldehyde	1.95	1.85		ug/L		95	70 - 130	0	20	
EPTC	1.95	2.10		ug/L		107	70 - 130	1	20	
Fluoranthene	1.95	1.94		ug/L		99	70 - 130	4	20	
Fluorene	1.95	1.93		ug/L		99	70 - 130	2	20	
gamma-Chlordane	1.95	2.04		ug/L		104	70 - 130	5	20	
Heptachlor	1.95	1.85		ug/L		95	70 - 130	3	20	
Heptachlor epoxide (isomer B)	1.95	1.97		ug/L		101	70 - 130	4	20	
Hexachlorobenzene	1.95	1.85		ug/L		95	70 - 130	4	20	
Hexachlorocyclopentadiene	1.95	1.75		ug/L		90	70 - 130	2	20	
Indeno[1,2,3-cd]pyrene	1.95	2.26		ug/L		116	70 - 130	1	20	
Isophorone	1.95	2.09		ug/L		107	70 - 130	2	20	

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-24110/4-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lindane	1.95	1.77		ug/L		90	70 - 130	2	20
Malathion	1.95	2.17		ug/L		111	70 - 130	3	20
Methoxychlor	1.95	2.12		ug/L		109	70 - 130	0	20
Metolachlor	1.95	1.98		ug/L		102	70 - 130	3	20
Metribuzin	1.95	1.83		ug/L		94	70 - 130	3	20
Molinate	1.95	2.09		ug/L		107	70 - 130	3	20
Naphthalene	1.95	1.84		ug/L		94	70 - 130	1	20
Parathion	1.95	2.28		ug/L		117	70 - 130	7	20
Pendimethalin (Penoxaline)	1.95	1.67		ug/L		85	70 - 130	5	20
Phenanthrene	1.95	1.96		ug/L		100	70 - 130	1	20
Propachlor	1.95	1.91		ug/L		98	70 - 130	4	20
Pyrene	1.95	1.93		ug/L		99	70 - 130	5	20
Simazine	1.95	2.15		ug/L		110	70 - 130	6	20
Terbacil	1.95	2.10		ug/L		107	70 - 130	6	20
Terbutylazine	1.95	2.02		ug/L		104	70 - 130	5	20
Thiobencarb	1.95	2.08		ug/L		106	70 - 130	4	20
trans-Nonachlor	1.95	1.97		ug/L		101	70 - 130	2	20
Trifluralin	1.95	1.54		ug/L		79	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Triphenylphosphate	99		70 - 130
Perylene-d12	98		70 - 130

Lab Sample ID: MRL 380-24110/2-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0976	0.0723	J	ug/L		74	50 - 150
2,4'-DDE	0.0976	0.0961	J	ug/L		98	50 - 150
2,4'-DDT	0.0976	0.0834	J	ug/L		85	50 - 150
2,4-Dinitrotoluene	0.0976	0.122		ug/L		126	50 - 150
2,6-Dinitrotoluene	0.0976	0.0936	J	ug/L		96	50 - 150
4,4'-DDD	0.0976	0.0943	J	ug/L		97	50 - 150
4,4'-DDE	0.0976	0.0720	J	ug/L		74	50 - 150
4,4'-DDT	0.0976	0.0816	J	ug/L		84	50 - 150
Acenaphthene	0.0976	0.0950	J	ug/L		97	50 - 150
Acenaphthylene	0.0976	0.0931	J	ug/L		95	50 - 150
Acetochlor	0.0488	0.0415	J	ug/L		85	50 - 150
Alachlor	0.0488	0.0519		ug/L		106	50 - 150
alpha-BHC	0.0976	0.0941	J	ug/L		96	50 - 150
alpha-Chlordane	0.0244	ND		ug/L		95	50 - 150
Anthracene	0.0195	ND		ug/L		97	50 - 150
Atrazine	0.0488	0.0512		ug/L		105	50 - 150
Benz(a)anthracene	0.0488	0.0499		ug/L		102	50 - 150
Benzo[a]pyrene	0.0195	0.0211		ug/L		108	50 - 150
Benzo[b]fluoranthene	0.0195	0.0221		ug/L		113	50 - 150

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-24110/2-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	0.0488	0.0535		ug/L		110	50 - 150
Benzo[k]fluoranthene	0.0195	0.0193	J	ug/L		99	50 - 150
beta-BHC	0.0976	0.0947	J	ug/L		97	50 - 150
Bromacil	0.0976	0.109		ug/L		112	50 - 150
Butachlor	0.0488	0.0521		ug/L		107	50 - 150
Butylbenzylphthalate	0.146	0.201	J	ug/L		137	50 - 150
Caffeine	0.0488	0.0380	J	ug/L		78	50 - 150
Chlorobenzilate	0.0976	0.127		ug/L		130	50 - 150
Chloroneb	0.0976	0.102		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0976	0.145		ug/L		149	50 - 150
Chlorpyrifos	0.0488	0.0509		ug/L		104	50 - 150
Chrysene	0.0195	0.0189	J	ug/L		97	50 - 150
delta-BHC	0.0976	0.115		ug/L		118	50 - 150
Di(2-ethylhexyl)adipate	0.293	0.419	J	ug/L		143	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.683		ug/L		117	50 - 150
Diazinon (Qualitative)	0.0976	0.0908	J	ug/L		93	15 - 132
Dibenz(a,h)anthracene	0.0488	0.0513		ug/L		105	50 - 150
Diclorvos (DDVP)	0.0488	0.0698		ug/L		143	50 - 150
Dieldrin	0.0976	0.0998	J	ug/L		102	50 - 150
Diethylphthalate	0.146	0.185	J	ug/L		127	50 - 150
Dimethoate	0.0976	0.0798	J	ug/L		82	35 - 100
Dimethylphthalate	0.293	0.313	J	ug/L		107	50 - 150
Di-n-butyl phthalate	0.293	0.383	J	ug/L		131	49 - 243
Di-n-octyl phthalate	0.0976	0.129		ug/L		132	50 - 150
Endosulfan I (Alpha)	0.0976	0.0692	J	ug/L		71	50 - 150
Endosulfan II (Beta)	0.0976	0.213	^3+	ug/L		218	50 - 150
Endosulfan sulfate	0.0976	0.0981		ug/L		101	50 - 150
Endrin	0.0976	0.122		ug/L		125	50 - 150
Endrin aldehyde	0.0976	ND		ug/L		83	50 - 150
EPTC	0.0976	0.0983		ug/L		101	50 - 150
Fluoranthene	0.0488	0.0495	J	ug/L		101	50 - 150
Fluorene	0.0488	0.0522		ug/L		107	50 - 150
gamma-Chlordane	0.0244	0.0218	J	ug/L		89	50 - 150
Heptachlor	0.0390	0.0449		ug/L		115	50 - 150
Heptachlor epoxide (isomer B)	0.0488	0.0426	J	ug/L		87	50 - 150
Hexachlorobenzene	0.0488	ND		ug/L		82	50 - 150
Hexachlorocyclopentadiene	0.0488	0.0385	J	ug/L		79	50 - 150
Indeno[1,2,3-cd]pyrene	0.0488	0.0493		ug/L		101	50 - 150
Isophorone	0.0976	0.106	J	ug/L		109	50 - 150
Lindane	0.0390	0.0383	J	ug/L		98	50 - 150
Malathion	0.0976	0.104		ug/L		106	50 - 150
Methoxychlor	0.0976	0.0842	J	ug/L		86	50 - 150
Metolachlor	0.0488	0.0526		ug/L		108	50 - 150
Metribuzin	0.0488	0.0356	J	ug/L		73	50 - 150
Molinate	0.0976	0.103		ug/L		105	50 - 150
Naphthalene	0.0976	0.0952	J	ug/L		98	50 - 150
Parathion	0.0976	0.107		ug/L		110	50 - 150
Pendimethalin (Penoxaline)	0.0976	0.138		ug/L		141	50 - 150
Phenanthrene	0.0195	0.0248	J	ug/L		127	50 - 150

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-24110/2-A
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Propachlor	0.0488	0.0493		ug/L		101	50 - 150
Pyrene	0.0488	0.0496		ug/L		102	50 - 150
Simazine	0.0488	0.0556		ug/L		114	50 - 150
Terbacil	0.0976	0.128		ug/L		132	50 - 150
Terbutylazine	0.0976	0.0937	J	ug/L		96	50 - 150
Thiobencarb	0.0976	0.129	J	ug/L		132	50 - 150
trans-Nonachlor	0.0244	ND		ug/L		95	50 - 150
Trifluralin	0.0976	0.113		ug/L		116	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Triphenylphosphate	109		70 - 130
Perylene-d12	97		70 - 130

Lab Sample ID: 380-27552-BW-1-A MS
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	ND		1.94	1.96		ug/L		101	70 - 130
2,4'-DDE	ND		1.94	1.69		ug/L		87	70 - 130
2,4'-DDT	ND		1.94	1.89		ug/L		98	70 - 130
2,4-Dinitrotoluene	ND		1.94	1.87		ug/L		97	70 - 130
2,6-Dinitrotoluene	ND		1.94	2.11		ug/L		109	70 - 130
4,4'-DDD	ND		1.94	1.87		ug/L		96	70 - 130
4,4'-DDE	ND		1.94	1.91		ug/L		98	70 - 130
4,4'-DDT	ND		1.94	1.82		ug/L		94	70 - 130
Acenaphthene	ND		1.94	1.87		ug/L		97	70 - 130
Acenaphthylene	ND		1.94	2.09		ug/L		108	70 - 130
Acetochlor	ND		1.94	2.07		ug/L		107	70 - 130
Alachlor	ND		1.94	2.08		ug/L		107	70 - 130
alpha-BHC	ND		1.94	1.83		ug/L		94	70 - 130
alpha-Chlordane	ND		1.94	2.16		ug/L		112	70 - 130
Anthracene	ND		1.94	1.93		ug/L		100	70 - 130
Atrazine	ND		1.94	2.08		ug/L		107	70 - 130
Benz(a)anthracene	ND		1.94	1.96		ug/L		101	70 - 130
Benzo[a]pyrene	ND		1.94	2.10		ug/L		108	70 - 130
Benzo[b]fluoranthene	ND		1.94	2.15		ug/L		111	70 - 130
Benzo[g,h,i]perylene	ND		1.94	2.20		ug/L		113	70 - 130
Benzo[k]fluoranthene	ND		1.94	2.14		ug/L		110	70 - 130
beta-BHC	ND		1.94	1.76		ug/L		91	70 - 130
Bromacil	ND	F1	1.94	2.55	F1	ug/L		132	70 - 130
Butachlor	ND		1.94	2.09		ug/L		108	70 - 130
Butylbenzylphthalate	ND		1.94	2.25		ug/L		116	70 - 130
Caffeine	ND		1.94	1.84		ug/L		95	46 - 144
Chlorobenzilate	ND		1.94	2.47		ug/L		128	70 - 130
Chloroneb	ND		1.94	1.93		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	ND		1.94	1.84		ug/L		95	70 - 130

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-27552-BW-1-A MS
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorpyrifos	ND		1.94	2.05		ug/L		106	70 - 130
Chrysene	ND		1.94	2.00		ug/L		103	70 - 130
delta-BHC	ND		1.94	1.84		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	ND		1.94	2.24		ug/L		116	70 - 130
Bis(2-ethylhexyl) phthalate	ND		1.94	2.09		ug/L		108	70 - 130
Diazinon (Qualitative)	ND		1.94	2.05		ug/L		106	15 - 132
Dibenz(a,h)anthracene	ND		1.94	2.33		ug/L		120	70 - 130
Diclorvos (DDVP)	ND		1.94	2.22		ug/L		115	70 - 130
Dieldrin	ND		1.94	1.78		ug/L		92	70 - 130
Diethylphthalate	ND		1.94	2.02		ug/L		104	70 - 130
Dimethoate	ND		1.94	1.76		ug/L		91	34 - 111
Dimethylphthalate	ND		1.94	1.99		ug/L		103	70 - 130
Di-n-butyl phthalate	ND		3.87	3.88		ug/L		97	70 - 130
Di-n-octyl phthalate	ND		1.94	2.07		ug/L		107	70 - 130
Endosulfan I (Alpha)	ND		1.94	1.95		ug/L		101	70 - 130
Endosulfan II (Beta)	ND	^3+	1.94	2.04		ug/L		105	70 - 130
Endosulfan sulfate	ND		1.94	1.84		ug/L		95	70 - 130
Endrin	ND	F1	1.94	2.60	F1	ug/L		134	70 - 130
Endrin aldehyde	ND		1.94	1.66		ug/L		86	70 - 130
EPTC	ND		1.94	2.17		ug/L		112	70 - 130
Fluoranthene	ND		1.94	2.01		ug/L		104	70 - 130
Fluorene	ND		1.94	1.92		ug/L		99	70 - 130
gamma-Chlordane	ND		1.94	2.17		ug/L		112	70 - 130
Heptachlor	ND		1.94	1.97		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	ND		1.94	2.15		ug/L		111	70 - 130
Hexachlorobenzene	ND		1.94	1.79		ug/L		92	70 - 130
Hexachlorocyclopentadiene	ND		1.94	1.78		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	ND		1.94	2.27		ug/L		117	70 - 130
Isophorone	ND		1.94	2.10		ug/L		108	70 - 130
Lindane	ND		1.94	1.77		ug/L		92	70 - 130
Malathion	ND		1.94	2.37		ug/L		122	70 - 130
Methoxychlor	ND		1.94	2.23		ug/L		115	70 - 130
Metolachlor	0.059		1.94	2.13		ug/L		107	70 - 130
Metribuzin	ND		1.94	1.84		ug/L		95	70 - 130
Molinate	ND		1.94	2.14		ug/L		111	70 - 130
Naphthalene	ND		1.94	1.85		ug/L		96	70 - 130
Parathion	ND	F1	1.94	2.70	F1	ug/L		140	70 - 130
Pendimethalin (Penoxaline)	ND		1.94	1.82		ug/L		94	70 - 130
Phenanthrene	ND		1.94	1.99		ug/L		103	70 - 130
Propachlor	ND		1.94	2.04		ug/L		105	70 - 130
Pyrene	ND		1.94	2.02		ug/L		104	70 - 130
Simazine	ND		1.94	2.22		ug/L		115	70 - 130
Terbacil	ND		1.94	2.23		ug/L		115	70 - 130
Terbutylazine	ND		1.94	2.09		ug/L		108	70 - 130
Thiobencarb	ND		1.94	2.18		ug/L		113	70 - 130
trans-Nonachlor	ND		1.94	1.98		ug/L		102	70 - 130
Trifluralin	ND		1.94	1.66		ug/L		86	70 - 130

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-27552-BW-1-A MS
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24110

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	99		70 - 130
Triphenylphosphate	108		70 - 130
Perylene-d12	97		70 - 130

Lab Sample ID: 380-27564-D-1-A DU
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDD	ND		ND		ug/L		NC	20
2,4'-DDE	ND		ND		ug/L		NC	20
2,4'-DDT	ND		ND		ug/L		NC	20
2,4-Dinitrotoluene	ND		ND		ug/L		NC	20
2,6-Dinitrotoluene	ND		ND		ug/L		NC	20
4,4'-DDD	ND		ND		ug/L		NC	20
4,4'-DDE	ND		ND		ug/L		NC	20
4,4'-DDT	ND		ND		ug/L		NC	20
Acenaphthene	ND		ND		ug/L		NC	20
Acenaphthylene	ND		ND		ug/L		NC	20
Acetochlor	ND		ND		ug/L		NC	20
Alachlor	ND		ND		ug/L		NC	20
alpha-BHC	ND		ND		ug/L		NC	20
alpha-Chlordane	ND		ND		ug/L		NC	20
Anthracene	ND		ND		ug/L		NC	20
Atrazine	ND		ND		ug/L		NC	20
Benz(a)anthracene	ND		ND		ug/L		NC	20
Benzo[a]pyrene	ND		ND		ug/L		NC	20
Benzo[b]fluoranthene	ND		ND		ug/L		NC	20
Benzo[g,h,i]perylene	ND		ND		ug/L		NC	20
Benzo[k]fluoranthene	ND		ND		ug/L		NC	20
beta-BHC	ND		ND		ug/L		NC	20
Bromacil	ND		ND		ug/L		NC	20
Butachlor	ND		ND		ug/L		NC	20
Butylbenzylphthalate	ND		ND		ug/L		NC	20
Caffeine	ND		ND		ug/L		NC	20
Chlorobenzilate	ND		ND		ug/L		NC	20
Chloroneb	ND		ND		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	ND		ND		ug/L		NC	20
Chlorpyrifos	ND		ND		ug/L		NC	20
Chrysene	ND		ND		ug/L		NC	20
delta-BHC	ND		ND		ug/L		NC	20
Di(2-ethylhexyl)adipate	ND		ND		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	ND		ND		ug/L		NC	20
Diazinon (Qualitative)	ND		ND		ug/L		NC	20
Dibenz(a,h)anthracene	ND		ND		ug/L		NC	20
Diclorvos (DDVP)	ND		ND		ug/L		NC	20
Dieldrin	ND		ND		ug/L		NC	20
Diethylphthalate	ND		ND		ug/L		NC	20

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-27564-D-1-A DU
Matrix: Water
Analysis Batch: 24186

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 24110

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethoate	ND		ND		ug/L		NC	20
Dimethylphthalate	ND		ND		ug/L		NC	20
Di-n-butyl phthalate	ND		ND		ug/L		NC	20
Di-n-octyl phthalate	ND		ND		ug/L		NC	20
Endosulfan I (Alpha)	ND		ND		ug/L		NC	20
Endosulfan II (Beta)	ND	^3+	ND		ug/L		NC	20
Endosulfan sulfate	ND		ND		ug/L		NC	20
Endrin	ND		ND		ug/L		NC	20
Endrin aldehyde	ND		ND		ug/L		NC	20
EPTC	ND		ND		ug/L		NC	20
Fluoranthene	ND		ND		ug/L		NC	20
Fluorene	ND		ND		ug/L		NC	20
gamma-Chlordane	ND		ND		ug/L		NC	20
Heptachlor	ND		ND		ug/L		NC	20
Heptachlor epoxide (isomer B)	ND		ND		ug/L		NC	20
Hexachlorobenzene	ND		ND		ug/L		NC	20
Hexachlorocyclopentadiene	ND		ND		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	ND		ND		ug/L		NC	20
Isophorone	ND		ND		ug/L		NC	20
Lindane	ND		ND		ug/L		NC	20
Malathion	ND		ND		ug/L		NC	20
Methoxychlor	ND		ND		ug/L		NC	20
Metolachlor	ND		ND		ug/L		NC	20
Metribuzin	ND		ND		ug/L		NC	20
Molinate	ND		ND		ug/L		NC	20
Naphthalene	ND		ND		ug/L		NC	20
Parathion	ND		ND		ug/L		NC	20
Pendimethalin (Penoxaline)	ND		ND		ug/L		NC	20
Total Permethrin (mixed isomers)	ND		ND		ug/L		NC	20
Phenanthrene	ND		ND		ug/L		NC	20
Propachlor	ND		ND		ug/L		NC	20
Pyrene	ND		ND		ug/L		NC	20
Simazine	ND		ND		ug/L		NC	20
Terbacil	ND		ND		ug/L		NC	20
Terbutylazine	ND		ND		ug/L		NC	20
Thiobencarb	ND		ND		ug/L		NC	20
trans-Nonachlor	ND		ND		ug/L		NC	20
Trifluralin	ND		ND		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Triphenylphosphate	114		70 - 130
Perylene-d12	99		70 - 130

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i

Lab Sample ID: 101671-B1
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: O-40036_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Chlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
2-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
3-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
4-Chloroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
4-Nitroaniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
4-Nitrophenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Acenaphthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Acenaphthylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Aniline	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzidine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzoic Acid	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
Biphenyl	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Chrysene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Dibenzofuran	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101671-B1
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: O-40036_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzothiophene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Disalicylidenepranediamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Fluoranthene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Fluorene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Hexachloroethane	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Naphthalene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Nitrobenzene	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Pentachlorophenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Perylene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Phenanthrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1
Phenol	ND		0.2	0.1	µg/L		11/14/22 00:00	12/13/22 16:33	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		11/14/22 00:00	12/13/22 16:33	1
Pyrene	ND		0.005	0.001	µg/L		11/14/22 00:00	12/13/22 16:33	1

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
(2,4,6-Tribromophenol)	49		30 - 130	11/14/22 00:00	12/13/22 16:33	1
(d10-Acenaphthene)	88		27 - 133	11/14/22 00:00	12/13/22 16:33	1
(d10-Phenanthrene)	87		43 - 129	11/14/22 00:00	12/13/22 16:33	1
(d12-Chrysene)	90		52 - 144	11/14/22 00:00	12/13/22 16:33	1
(d12-Perylene)	67		36 - 161	11/14/22 00:00	12/13/22 16:33	1
(d5-Phenol)	51		0 - 130	11/14/22 00:00	12/13/22 16:33	1
(d8-Naphthalene)	94		25 - 125	11/14/22 00:00	12/13/22 16:33	1

Lab Sample ID: 101671-BS1
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40036_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.5	0.467		µg/L		93	31 - 128
1-Methylphenanthrene	0.5	0.548		µg/L		110	66 - 127
2,3,5-Trimethylnaphthalene	0.5	0.452		µg/L		90	55 - 122
2,4,5-Trichlorophenol	1	0.886		µg/L		89	30 - 130
2,4,6-Trichlorophenol	1	0.831		µg/L		83	30 - 130
2,4-Dichlorophenol	1	0.871		µg/L		87	51 - 117
2,4-Dinitrophenol	1	1.04		µg/L		104	0 - 152
2,6-Dichlorophenol	1	0.871		µg/L		87	30 - 130
2,6-Dimethylnaphthalene	0.5	0.415		µg/L		83	48 - 120
2,6-Di-tert-butyl-4-methylphenol	1	0.76		µg/L		76	50 - 150
2,6-Di-tert-butylphenol	1	0.631		µg/L		63	50 - 150
2-Chloronaphthalene	1	0.725		µg/L		73	53 - 130
2-Chlorophenol	1	0.811		µg/L		81	41 - 120
2-Methyl-4,6-dinitrophenol	1	0.868		µg/L		87	0 - 141
2-Methylnaphthalene	1.5	1.44		µg/L		96	47 - 130
2-Methylphenol	1	0.865		µg/L		87	40 - 117
2-Nitroaniline	1	0.764		µg/L		76	69 - 114

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101671-BS1
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40036_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitrophenol	1	0.717		µg/L		72	40 - 117
3+4-Methylphenol	1	0.781		µg/L		78	0 - 130
3-Nitroaniline	1	0.867		µg/L		87	23 - 137
4-Bromophenylphenyl ether	1	0.851		µg/L		85	61 - 132
4-Chloro-3-methylphenol	1	0.89		µg/L		89	51 - 128
4-Chloroaniline	1	0.743		µg/L		74	50 - 150
4-Chlorophenylphenyl ether	1	0.908		µg/L		91	63 - 130
4-Nitroaniline	1	0.823		µg/L		82	10 - 159
4-Nitrophenol	1	0.592		µg/L		59	10 - 164
6-tert-butyl-2,4-dimethylphenol	1	0.632		µg/L		63	50 - 150
Acenaphthene	1.5	1.44		µg/L		96	53 - 131
Acenaphthylene	1.5	1.27		µg/L		85	43 - 140
Aniline	1	0.545		µg/L		55	50 - 150
Anthracene	1.5	1.47		µg/L		98	58 - 135
Benz[a]anthracene	1.5	1.5		µg/L		100	55 - 145
Benzidine	1	0.275		µg/L		28	0 - 125
Benzo[a]pyrene	1.5	1.51		µg/L		101	51 - 143
Benzo[b]fluoranthene	1.5	1.45		µg/L		97	46 - 165
Benzo[e]pyrene	0.5	0.444		µg/L		89	42 - 152
Benzo[g,h,i]perylene	1.5	1.54		µg/L		103	63 - 133
Benzo[k]fluoranthene	1.5	1.55		µg/L		103	56 - 145
Benzoic Acid	1	0.516		µg/L		52	2 - 145
Benzyl Alcohol	1	1.07		µg/L		107	43 - 148
Biphenyl	0.5	0.401		µg/L		80	56 - 119
Bis(2-Chloroethoxy) methane	1	0.896		µg/L		90	66 - 122
Bis(2-Chloroethyl) ether	1	0.919		µg/L		92	43 - 127
Bis(2-Chloroisopropyl) ether	1	1.07		µg/L		107	49 - 128
Chrysene	1.5	1.52		µg/L		101	56 - 141
Dibenz[a,h]anthracene	1.5	1.35		µg/L		90	55 - 150
Dibenzo[a,l]pyrene	0.5	0.496		µg/L		99	50 - 150
Dibenzofuran	1	0.954		µg/L		95	50 - 150
Dibenzothiophene	0.5	0.483		µg/L		97	46 - 126
Disalicylidenepropanediamine	50	35.9		µg/L		72	50 - 150
Fluoranthene	1.5	1.25		µg/L		83	60 - 146
Fluorene	1.5	1.47		µg/L		98	58 - 131
Hexachloroethane	1	0.694		µg/L		69	27 - 130
Indeno[1,2,3-cd]pyrene	1.5	1.27		µg/L		85	50 - 151
Naphthalene	1.5	1.29		µg/L		86	41 - 126
Nitrobenzene	1	0.782		µg/L		78	54 - 111
N-Nitrosodi-n-propylamine	1	0.745		µg/L		75	61 - 152
N-Nitrosodiphenylamine	2	2.11		µg/L		105	49 - 142
Pentachlorophenol	1	1.08		µg/L		108	36 - 111
Perylene	0.5	0.434		µg/L		87	48 - 141
Phenanthrene	1.5	1.48		µg/L		99	67 - 127
Phenol	1	0.789		µg/L		79	29 - 114
p-tert-Butylphenol	1	1.06		µg/L		106	50 - 150
Pyrene	1.5	1.5		µg/L		100	54 - 156

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101671-BS1
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40036_P

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
(2,4,6-Tribromophenol)	58		30 - 130
(d10-Acenaphthene)	96		27 - 133
(d10-Phenanthrene)	90		43 - 129
(d12-Chrysene)	91		52 - 144
(d12-Perylene)	84		36 - 161
(d5-Phenol)	43		0 - 130
(d8-Naphthalene)	93		25 - 125

Lab Sample ID: 101671-BS2
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40036_P

Analyte	Spike Added	LCS DUP Result	LCS DUP Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
1-Methylnaphthalene	0.5	0.388		µg/L		78	31 - 128	18	30	
1-Methylphenanthrene	0.5	0.528		µg/L		106	66 - 127	4	30	
2,3,5-Trimethylnaphthalene	0.5	0.431		µg/L		86	55 - 122	5	30	
2,4,5-Trichlorophenol	1	0.745		µg/L		75	30 - 130	18	30	
2,4,6-Trichlorophenol	1	0.712		µg/L		71	30 - 130	16	30	
2,4-Dichlorophenol	1	0.867		µg/L		87	51 - 117	0	30	
2,4-Dinitrophenol	1	1.06		µg/L		106	0 - 152	2	30	
2,6-Dichlorophenol	1	0.867		µg/L		87	30 - 130	0	30	
2,6-Dimethylnaphthalene	0.5	0.34		µg/L		68	48 - 120	20	30	
2,6-Di-tert-butyl-4-methylphenol	1	0.701		µg/L		70	50 - 150	8	30	
2,6-Di-tert-butylphenol	1	0.629		µg/L		63	50 - 150	0	30	
2-Chloronaphthalene	1	0.634		µg/L		63	53 - 130	13	30	
2-Chlorophenol	1	0.765		µg/L		76	41 - 120	6	30	
2-Methyl-4,6-dinitrophenol	1	1.07		µg/L		107	0 - 141	21	30	
2-Methylnaphthalene	1.5	1.19		µg/L		79	47 - 130	19	30	
2-Methylphenol	1	0.734		µg/L		73	40 - 117	16	30	
2-Nitroaniline	1	0.823		µg/L		82	69 - 114	8	30	
2-Nitrophenol	1	0.75		µg/L		75	40 - 117	4	30	
3+4-Methylphenol	1	0.692		µg/L		69	0 - 130	12	30	
3-Nitroaniline	1	0.839		µg/L		84	23 - 137	4	30	
4-Bromophenylphenyl ether	1	0.876		µg/L		88	61 - 132	3	30	
4-Chloro-3-methylphenol	1	0.704		µg/L		70	51 - 128	24	30	
4-Chloroaniline	1	0.633		µg/L		63	50 - 150	16	30	
4-Chlorophenylphenyl ether	1	0.851		µg/L		85	63 - 130	7	30	
4-Nitroaniline	1	0.959		µg/L		96	10 - 159	16	30	
4-Nitrophenol	1	0.681		µg/L		68	10 - 164	14	30	
6-tert-butyl-2,4-dimethylphenol	1	0.628		µg/L		63	50 - 150	0	30	
Acenaphthene	1.5	1.1		µg/L		73	53 - 131	27	30	
Acenaphthylene	1.5	1.16		µg/L		77	43 - 140	10	30	
Aniline	1	0.728		µg/L		73	50 - 150	30	30	
Anthracene	1.5	1.39		µg/L		93	58 - 135	5	30	
Benz[a]anthracene	1.5	1.44		µg/L		96	55 - 145	4	30	
Benzidine	1	0.27		µg/L		27	0 - 125	4	30	
Benzo[a]pyrene	1.5	1.45		µg/L		97	51 - 143	4	30	
Benzo[b]fluoranthene	1.5	1.41		µg/L		94	46 - 165	3	30	

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 625 Acid/Base/PAH + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101671-BS2
Matrix: BlankMatrix
Analysis Batch: O-40036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40036_P

Analyte	Spike Added	LCS DUP Result	LCS DUP Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzo[e]pyrene	0.5	0.458		µg/L		92	42 - 152	3	30	
Benzo[g,h,i]perylene	1.5	1.49		µg/L		99	63 - 133	4	30	
Benzo[k]fluoranthene	1.5	1.48		µg/L		99	56 - 145	4	30	
Benzoic Acid	1	0.581		µg/L		58	2 - 145	11	30	
Benzyl Alcohol	1	1.09		µg/L		109	43 - 148	2	30	
Biphenyl	0.5	0.351		µg/L		70	56 - 119	13	30	
Bis(2-Chloroethoxy) methane	1	0.889		µg/L		89	66 - 122	1	30	
Bis(2-Chloroethyl) ether	1	0.847		µg/L		85	43 - 127	8	30	
Bis(2-Chloroisopropyl) ether	1	0.85		µg/L		85	49 - 128	23	30	
Chrysene	1.5	1.43		µg/L		95	56 - 141	6	30	
Dibenz[a,h]anthracene	1.5	1.36		µg/L		91	55 - 150	1	30	
Dibenzo[a,l]pyrene	0.5	0.465		µg/L		93	50 - 150	6	30	
Dibenzofuran	1	0.735		µg/L		74	50 - 150	25	30	
Dibenzothiophene	0.5	0.458		µg/L		92	46 - 126	5	30	
Disalicylidenepropanediamine	50	40.1		µg/L		80	50 - 150	11	30	
Fluoranthene	1.5	1.45		µg/L		97	60 - 146	16	30	
Fluorene	1.5	1.39		µg/L		93	58 - 131	5	30	
Hexachloroethane	1	0.56		µg/L		56	27 - 130	21	30	
Indeno[1,2,3-cd]pyrene	1.5	1.35		µg/L		90	50 - 151	6	30	
Naphthalene	1.5	0.992		µg/L		66	41 - 126	26	30	
Nitrobenzene	1	0.665		µg/L		67	54 - 111	17	30	
N-Nitrosodi-n-propylamine	1	0.746		µg/L		75	61 - 152	1	30	
N-Nitrosodiphenylamine	2	2.08		µg/L		104	49 - 142	1	30	
Pentachlorophenol	1	1.02		µg/L		102	36 - 111	6	30	
Perylene	0.5	0.464		µg/L		93	48 - 141	7	30	
Phenanthrene	1.5	1.39		µg/L		93	67 - 127	6	30	
Phenol	1	0.703		µg/L		70	29 - 114	12	30	
p-tert-Butylphenol	1	0.816		µg/L		82	50 - 150	26	30	
Pyrene	1.5	1.43		µg/L		95	54 - 156	5	30	

Surrogate	LCS DUP	LCS DUP	Limits
	%Recovery	Qualifier	
(2,4,6-Tribromophenol)	57		30 - 130
(d10-Acenaphthene)	73		27 - 133
(d10-Phenanthrene)	85		43 - 129
(d12-Chrysene)	86		52 - 144
(d12-Perylene)	85		36 - 161
(d5-Phenol)	40		0 - 130
(d8-Naphthalene)	84		25 - 125

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Lab Sample ID: 22VGH7K06B
Matrix: WATER
Analysis Batch: 22VGH7K06

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GASOLINE	ND	U	0.020		mg/L			11/10/22 11:59	1

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics (Continued)

Lab Sample ID: 22VGH7K06B
Matrix: WATER
Analysis Batch: 22VGH7K06

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
BROMOFLUOROBENZENE					11/10/22 11:59	1

Lab Sample ID: 22VGH7K06L
Matrix: WATER
Analysis Batch: 22VGH7K06

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
GASOLINE	0.500	0.439		mg/L		88	60 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
BROMOFLUOROBENZENE	113		70 - 130

Lab Sample ID: 22K104-01M
Matrix: WATER
Analysis Batch: 22VGH7K06

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
GASOLINE	ND		0.500	0.465		mg/L		93	50 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
BROMOFLUOROBENZENE	112		60 - 140

Lab Sample ID: 22K104-01S
Matrix: WATER
Analysis Batch: 22VGH7K06

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
				Result	Qualifier						
GASOLINE	ND		0.500	0.458		mg/L		92	50 - 130	2	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
BROMOFLUOROBENZENE	114		60 - 140

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Lab Sample ID: 22DSK016WB
Matrix: WATER
Analysis Batch: 22DSK016W

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DIESEL	ND	U	0.025		mg/L			11/11/22 15:40	1
JP5	ND	U	0.050		mg/L			11/11/22 15:40	1
JP8	ND	U	0.050		mg/L			11/11/22 15:40	1
MOTOR OIL	ND	U	0.050		mg/L			11/11/22 15:40	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
BROMOBENZENE					11/11/22 15:40	1
HEXACOSANE					11/11/22 15:40	1

Eurofins Eaton Monrovia

QC Sample Results

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO (Continued)

Lab Sample ID: 22DSK016WL
Matrix: WATER
Analysis Batch: 22DSK016W

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DIESEL	2.50	2.74		mg/L		110	50 - 130
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
BROMOBENZENE	101		60 - 130				
HEXACOSANE	105		60 - 130				

Lab Sample ID: 22J5K016WL
Matrix: WATER
Analysis Batch: 22DSK016W

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
JP5	2.50	2.82		mg/L		113	30 - 160
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
BROMOBENZENE	99		60 - 130				
HEXACOSANE	106		60 - 130				

Lab Sample ID: 22J8K016WL
Matrix: WATER
Analysis Batch: 22DSK016W

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
JP8	2.50	2.98		mg/L		119	30 - 160
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
BROMOBENZENE	95		60 - 130				
HEXACOSANE	105		60 - 130				

QC Association Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

GC/MS Semi VOA

Prep Batch: 24110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	525.2	
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	525.2	
MB 380-24110/1-A	Method Blank	Total/NA	Water	525.2	
LCS 380-24110/3-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-24110/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-24110/2-A	Lab Control Sample	Total/NA	Water	525.2	
380-27552-BW-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-27564-D-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 24186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	24110
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	24110
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	525.2	24110
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	525.2	24110
MB 380-24110/1-A	Method Blank	Total/NA	Water	525.2	24110
LCS 380-24110/3-A	Lab Control Sample	Total/NA	Water	525.2	24110
LCSD 380-24110/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	24110
MRL 380-24110/2-A	Lab Control Sample	Total/NA	Water	525.2	24110
380-27552-BW-1-A MS	Matrix Spike	Total/NA	Water	525.2	24110
380-27564-D-1-A DU	Duplicate	Total/NA	Water	525.2	24110

Subcontract

Analysis Batch: O-40036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625 Acid/Base/PAH + TICs	O-40036_P
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625 Acid/Base/PAH + TICs	O-40036_P
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625 Acid/Base/PAH + TICs	O-40036_P
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	625 Acid/Base/PAH + TICs	O-40036_P
101671-B1	Method Blank	Total/NA	BlankMatrix	625 Acid/Base/PAH + TICs	O-40036_P
101671-BS1	Lab Control Sample	Total/NA	BlankMatrix	625 Acid/Base/PAH + TICs	O-40036_P
101671-BS2	Lab Control Sample Dup	Total/NA	BlankMatrix	625 Acid/Base/PAH + TICs	O-40036_P

QC Association Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Subcontract

Analysis Batch: 22DSK016W

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015 LL DRO/MRO/JP5/J P8	
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015 LL DRO/MRO/JP5/J P8	
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015 LL DRO/MRO/JP5/J P8	
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C	Total/NA	Drinking Water	8015 LL DRO/MRO/JP5/J P8	
22DSK016WB	Method Blank	Total/NA	WATER	8015 LL DRO/MRO/JP5/J P8	
22DSK016WL	Lab Control Sample	Total/NA	WATER	8015 LL DRO/MRO/JP5/J P8	
22J5K016WL	Lab Control Sample	Total/NA	WATER	8015 LL DRO/MRO/JP5/J P8	
22J8K016WL	Lab Control Sample	Total/NA	WATER	8015 LL DRO/MRO/JP5/J P8	

Analysis Batch: 22VGH7K06

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C	Total/NA	Drinking Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-5	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Total/NA	Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-6	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Total/NA	Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-7	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	8015 Gas (Purgeable) LL (EAL)	
380-27390-8	TB: HALAWA WELLS UNITS 1&2 (331-206-TP06	Total/NA	Water	8015 Gas (Purgeable) LL (EAL)	
22VGH7K06B	Method Blank	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	
22VGH7K06L	Lab Control Sample	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	

Eurofins Eaton Monrovia

QC Association Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Subcontract (Continued)

Analysis Batch: 22VGH7K06 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
22K104-01M	Matrix Spike	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	
22K104-01S	Matrix Spike Duplicate	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	

Prep Batch: O-40036_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	EPA_625	
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	EPA_625	
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	EPA_625	
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	EPA_625	
101671-B1	Method Blank	Total/NA	BlankMatrix	EPA_625	
101671-BS1	Lab Control Sample	Total/NA	BlankMatrix	EPA_625	
101671-BS2	Lab Control Sample Dup	Total/NA	BlankMatrix	EPA_625	



Lab Chronicle

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
 (331-201-TP071)**

Lab Sample ID: 380-27390-1

Date Collected: 11/07/22 10:43

Matrix: Drinking Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			24110	N8NE	EA MON	11/12/22 09:24
Total/NA	Analysis	525.2		1	24186	Q8LA	EA MON	11/14/22 12:46
Total/NA	Prep	EPA_625		1	O-40036_P			11/14/22 00:00
Total/NA	Analysis	625 Acid/Base/PAH + TICs		1	O-40036	YC		12/13/22 21:53
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 14:38
Total/NA	Analysis	8015 LL DRO/MRO/JP5/JP8		1	22DSK016W	SDees		11/11/22 19:41

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-27390-2

Date Collected: 11/07/22 11:05

Matrix: Drinking Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			24110	N8NE	EA MON	11/12/22 09:24
Total/NA	Analysis	525.2		1	24186	Q8LA	EA MON	11/14/22 13:06
Total/NA	Prep	EPA_625		1	O-40036_P			11/14/22 00:00
Total/NA	Analysis	625 Acid/Base/PAH + TICs		1	O-40036	YC		12/13/22 23:40
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 16:27
Total/NA	Analysis	8015 LL DRO/MRO/JP5/JP8		1	22DSK016W	SDees		11/11/22 19:59

**Client Sample ID: HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-27390-3

Date Collected: 11/07/22 09:38

Matrix: Drinking Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			24110	N8NE	EA MON	11/12/22 09:24
Total/NA	Analysis	525.2		1	24186	Q8LA	EA MON	11/14/22 13:27
Total/NA	Prep	EPA_625		1	O-40036_P			11/14/22 00:00
Total/NA	Analysis	625 Acid/Base/PAH + TICs		1	O-40036	YC		12/14/22 01:26
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 17:04
Total/NA	Analysis	8015 LL DRO/MRO/JP5/JP8		1	22DSK016W	SDees		11/11/22 20:17

Lab Chronicle

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-27390-4

Date Collected: 11/07/22 10:09

Matrix: Drinking Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			24110	N8NE	EA MON	11/12/22 09:24
Total/NA	Analysis	525.2		1	24186	Q8LA	EA MON	11/14/22 13:47
Total/NA	Prep	EPA_625		1	O-40036_P			11/14/22 00:00
Total/NA	Analysis	625 Acid/Base/PAH + TICs		1	O-40036	YC		12/14/22 03:13
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 17:40
Total/NA	Analysis	8015 LL DRO/MRO/JP5/JP8		1	22DSK016W	SDees		11/11/22 20:36

Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)

Lab Sample ID: 380-27390-5

Date Collected: 11/07/22 10:43

Matrix: Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 18:53

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-27390-6

Date Collected: 11/07/22 11:05

Matrix: Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 19:30

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-27390-7

Date Collected: 11/07/22 10:09

Matrix: Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 20:06

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
 (331-206-TP065)**

Lab Sample ID: 380-27390-8

Date Collected: 11/07/22 09:38

Matrix: Water

Date Received: 11/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7K06	SCerva		11/10/22 20:43

Laboratory References:

= Physis Environmental Laboratories, 1904 Wright Circle, Anaheim, CA 92806
 EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100

Eurofins Eaton Monrovia

Accreditation/Certification Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Laboratory: Eurofins Eaton Monrovia

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acenaphthene
525.2	525.2	Drinking Water	Acenaphthylene
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	Anthracene
525.2	525.2	Drinking Water	Benz(a)anthracene
525.2	525.2	Drinking Water	Benzo[b]fluoranthene
525.2	525.2	Drinking Water	Benzo[g,h,i]perylene
525.2	525.2	Drinking Water	Benzo[k]fluoranthene
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Bromacil
525.2	525.2	Drinking Water	Butylbenzylphthalate
525.2	525.2	Drinking Water	Caffeine
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	Chrysene
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diazinon (Qualitative)
525.2	525.2	Drinking Water	Dibenz(a,h)anthracene
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Diethylphthalate
525.2	525.2	Drinking Water	Dimethoate
525.2	525.2	Drinking Water	Dimethylphthalate
525.2	525.2	Drinking Water	Di-n-butyl phthalate
525.2	525.2	Drinking Water	Di-n-octyl phthalate
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	Fluoranthene
525.2	525.2	Drinking Water	Fluorene
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Indeno[1,2,3-cd]pyrene

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Laboratory: Eurofins Eaton Monrovia (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Molinate
525.2	525.2	Drinking Water	Naphthalene
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Phenanthrene
525.2	525.2	Drinking Water	Pyrene
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Thiobencarb
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Drinking Water	Trifluralin

Method Summary

Client: City & County of Honolulu
Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA MON
625	EPA 625 Base/Neutral and Acid Organics i	EPA	
8015	8015 - TPH DRO/ORO	EPA	
8015B	SW846 8015B Gasoline Range Organics	SW846	
525.2	Extraction of Semivolatile Compounds	EPA	EA MON

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Physis Environmental Laboratories, 1904 Wright Circle, Anaheim, CA 92806

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100



Sample Summary

Client: City & County of Honolulu
 Project/Site: Rush Weekly Red Hill HBWS Sites

Job ID: 380-27390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-27390-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	11/07/22 10:43	11/08/22 10:00	HI0000331
380-27390-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	11/07/22 11:05	11/08/22 10:00	HI0000331
380-27390-3	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Drinking Water	11/07/22 09:38	11/08/22 10:00	HI0000331
380-27390-4	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Drinking Water	11/07/22 10:09	11/08/22 10:00	HI0000331
380-27390-5	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Water	11/07/22 10:43	11/08/22 10:00	
380-27390-6	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	11/07/22 11:05	11/08/22 10:00	
380-27390-7	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	11/07/22 10:09	11/08/22 10:00	
380-27390-8	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	11/07/22 09:38	11/08/22 10:00	

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

Date: 12-07-2022
 EMAX Batch No.: 22K104

Attn: Jackie Contreras

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

Subject: Laboratory Report
 Project: 380-27390

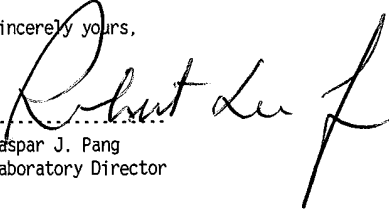
Enclosed is the Laboratory report for samples received on 11/09/22.
 The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
380-27390-1	K104-01	11/07/22	WATER	TPH GASOLINE
380-27390-2	K104-02	11/07/22	WATER	TPH GASOLINE
380-27390-3	K104-03	11/07/22	WATER	TPH GASOLINE
380-27390-4	K104-04	11/07/22	WATER	TPH GASOLINE
380-27390-5	K104-05	11/07/22	WATER	TPH GASOLINE
380-27390-6	K104-06	11/07/22	WATER	TPH GASOLINE
380-27390-7	K104-07	11/07/22	WATER	TPH GASOLINE
380-27390-8	K104-08	11/07/22	WATER	TPH GASOLINE
380-27390-1MS	K104-01M	11/07/22	WATER	TPH GASOLINE
380-27390-1MSD	K104-01S	11/07/22	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerely yours,



Caspar J. Pang
 Laboratory Director

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

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

NELAP Accredited Certificate Number CA002912022-22
 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
 California ELAP Accredited Certificate Number 2672

Chain of Custody Record



eurofins

Environment Testing

Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone: 626-386-1100

22K104

Client Information (Sub Contract Lab)

Client Contact: _____
 Shipping/Receiving: _____

Company: **EMAX Laboratories Inc**

Address: 3051 Fujita Street,
 City: Torrance
 State Zip: CA, 90505
 Phone: _____
 Email: _____

Due Date Requested: 11/22/2022
 TAT Requested (days):

Project Name: Rush Weekly Red Hill HBWS Sites
 Site: Honolulu BWS Sites

Project #: 38001111
 SSOV#: _____

Lab P.M.: Arada, Rachelle
 E-Mail: Rachelle.Arada@et.eurofins.com
 State of Origin: Hawaii
 Accreditations Required (See note): State - Hawaii

Carrier Tracking No(s): _____
 Page: 1 of 1
 Job #: 380-27390-1

COC No: 380-27885-1

Preservation Codes:
 A - HCl M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AsNaO2
 D - Nitric Acid P - Na2O4S
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amehlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecahydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4-5
 L - EDTA Y - Trizma
 Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-27390-1)	11/7/22	10:43	Water	Water	X	X	SUB (8015 Gas (Purgeable) LL (EAL))/ 8015 Gas (Purgeable) LL (EAL)	6	See Attached Instructions
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-27390-2)	11/7/22	11:05	Water	Water	X	X	SUB (8015 LL DRO/MRO/JP5/JP8)/ 8015 LL DRO/MRO/JP5/JP8	5	See Attached Instructions
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-27390-3)	11/7/22	09:38	Water	Water	X	X		5	See Attached Instructions
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-27390-4)	11/7/22	10:09	Water	Water	X	X		6	See Attached Instructions
TB:AIEA GULCH WELLS P1 (331-201-TP071) (380-27390-5)	11/7/22	10:43	Water	Water	X	X		2	See Attached Instructions
TB:AIEA GULCH WELLS P2 (331-202-TP072) (380-27390-6)	11/7/22	11:05	Water	Water	X	X		2	See Attached Instructions
TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-27390-3)	11/7/22	10:09	Water	Water	X	X		2	See Attached Instructions
TB: HALAWA WELLS UNITS 1&2 (331-206-TP065) (380-27390-8)	11/7/22	09:38	Water	Water	X	X		2	See Attached Instructions

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/streams/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification

Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Method of Shipment: _____
 Received by: _____ Date/Time: 11-9-22 12:15
 Received by: _____ Date/Time: 11/04/22 14:50

Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: Temp. 3.6



Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others <input checked="" type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery	Airbill / Tracking Number	ECN <u>22K104</u>
		Recipient <u>Marion Rivera</u>
		Date <u>11/09/22</u> Time <u>14:50</u>

COC INSPECTION

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time	<input checked="" type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> TAT
Safety Issues (if any) Note:	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> From Superfund Site	<input type="checkbox"/> Rad screening required		

PACKAGING INSPECTION

Container	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>3.6</u> °C	<input type="checkbox"/> Cooler 2 _____ °C	<input type="checkbox"/> Cooler 3 _____ °C
	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C
Thermometer:	A - S/N _____	B - S/N <u>210760237</u>	C - S/N _____
			<input checked="" type="checkbox"/> D - S/N <u>210760272</u>

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

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
<u>1-4</u>	<u>5, 6, 10, 11, 15, 16, 21, 22</u>	<u>D1</u>	<u>JPS / JPS Analysis not indicated</u>	<u>R8</u>
<u>2</u>	<u>7-9</u>	<u>D6</u>		<u>R1</u>

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. AB 11/10/22

NOTES/OBSERVATIONS:
 SAMPLE MATRIX IS DRINKING WATER? YES NO

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

REVIEWS:

Sample Labeling <u>Marion Rivera</u>	SRF <u>_____</u>	PM <u>AB</u>
Date <u>11/09/22</u>	Date <u>11/9/22</u>	Date <u>11/10/22</u>



AREA FAST
COURIER SERVICE

1146 N. Central Ave., #444 • Glendale, CA 91202
Phone: 818/ 497-4474

INVOICE 20115

CALL NO _____

REF NO _____

DATE 11 09-77

EuroFins

CHARGE TO _____

FROM: Entos Amule TO: E. M. W.
Moskova 3055 F. St. W.
Toronto, Ont.

PACKAGES	DESCRIPTION	CHARGES
		REGULAR
		RUSH
		ASAP
		NSC CHARGES
		WAITING TIME
		WEIGHT
		TOTAL CHARGE

DRIVER: _____ PICK UP TIME: _____ DELIVERY TIME: 9:50

Received By: L. J. ...



REPORTING CONVENTIONS

DATA QUALIFIERS:

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

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

ACRONYMS AND ABBREVIATIONS:

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

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-27390

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

SDG#: 22K104



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-27390

SDG : 22K104

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

A total of eight(8) water samples were received on 11/09/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VGH7K06B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. VGH7K06L/VGH7K06C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in K104-01M/K104-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
Project : 380-27390

SDG NO. : 22K104
Instrument ID : H7

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes	
				WATER						
MBLK1W	VG7K06B	1	NA	11/10/2211:59	11/10/2211:59	AK10005A	AK10004A	22VGH7K06	Method Blank	
LCS1W	VG7K06L	1	NA	11/10/2212:36	11/10/2212:36	AK10006A	AK10004A	22VGH7K06	Lab Control Sample (LCS)	
LCD1W	VG7K06C	1	NA	11/10/2213:12	11/10/2213:12	AK10007A	AK10004A	22VGH7K06	LCS Duplicate	
380-27390-1	K104-01	1	NA	11/10/2214:38	11/10/2214:38	AK10010A	AK10004A	22VGH7K06	Field Sample	
380-27390-1MS	K104-01M	1	NA	11/10/2215:14	11/10/2215:14	AK10011A	AK10004A	22VGH7K06	Matrix Spike Sample (MS)	
380-27390-1MSD	K104-01S	1	NA	11/10/2215:51	11/10/2215:51	AK10012A	AK10004A	22VGH7K06	MS Duplicate (MSD)	
380-27390-2	K104-02	1	NA	11/10/2216:27	11/10/2216:27	AK10013A	AK10004A	22VGH7K06	Field Sample	
380-27390-3	K104-03	1	NA	11/10/2217:04	11/10/2217:04	AK10014A	AK10004A	22VGH7K06	Field Sample	
380-27390-4	K104-04	1	NA	11/10/2217:40	11/10/2217:40	AK10015A	AK10004A	22VGH7K06	Field Sample	
380-27390-5	K104-05	1	NA	11/10/2218:53	11/10/2218:53	AK10017A	AK10016A	22VGH7K06	Field Sample	
380-27390-6	K104-06	1	NA	11/10/2219:30	11/10/2219:30	AK10018A	AK10016A	22VGH7K06	Field Sample	
380-27390-7	K104-07	1	NA	11/10/2220:06	11/10/2220:06	AK10019A	AK10016A	22VGH7K06	Field Sample	
380-27390-8	K104-08	1	NA	11/10/2220:43	11/10/2220:43	AK10020A	AK10016A	22VGH7K06	Field Sample	

FN - Filename
% Moist - Percent Moisture



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SAMPLE RESULTS

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

```

=====
Client       : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 10:43
Project      : 380-27390                   Date Received:   11/09/22
Batch No.    : 22K104                       Date Extracted: 11/10/22 14:38
Sample ID    : 380-27390-1                 Date Analyzed:  11/10/22 14:38
Lab Samp ID  : K104-01                      Dilution Factor: 1
Lab File ID  : AK10010A                     Matrix: WATER
Ext Btch ID  : 22VGH7K06                    % Moisture: NA
Calib. Ref.: AK10004A                       Instrument ID: H7
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0408	0.0400	102	60-140

Notes:

```

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

```

Detection limits are reported relative to sample result significant figures.

```

Sample Amount   : 5ml               Final Volume : 5ml
Prepared by    : SCerva             Analyzed by  : SCerva

```

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

```

=====
Client       : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 11:05
Project      : 380-27390                   Date Received:   11/09/22
Batch No.    : 22K104                      Date Extracted:  11/10/22 16:27
Sample ID    : 380-27390-2                 Date Analyzed:  11/10/22 16:27
Lab Samp ID  : K104-02                     Dilution Factor: 1
Lab File ID  : AK10013A                    Matrix: WATER
Ext Btch ID  : 22VGH7K06                   % Moisture: NA
Calib. Ref.: AK10004A                      Instrument ID: H7
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0412	0.0400	103	60-140

Notes:

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

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

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

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 11/07/22 09:38
Project : 380-27390 Date Received: 11/09/22
Batch No. : 22K104 Date Extracted: 11/10/22 17:04
Sample ID : 380-27390-3 Date Analyzed: 11/10/22 17:04
Lab Samp ID: K104-03 Dilution Factor: 1
Lab File ID: AK10014A Matrix: WATER
Ext Btch ID: 22VGH7K06 % Moisture: NA
Calib. Ref.: AK10004A Instrument ID: H7
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0406	0.0400	101	60-140

=====

Notes:

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

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

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

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 11/07/22 10:09
Project : 380-27390 Date Received: 11/09/22
Batch No. : 22K104 Date Extracted: 11/10/22 17:40
Sample ID : 380-27390-4 Date Analyzed: 11/10/22 17:40
Lab Samp ID: K104-04 Dilution Factor: 1
Lab File ID: AK10015A Matrix: WATER
Ext Btch ID: 22VGH7K06 % Moisture: NA
Calib. Ref.: AK10004A Instrument ID: H7
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0411	0.0400	103	60-140

Notes:

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

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

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

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 11/07/22 10:43
Project : 380-27390 Date Received: 11/09/22
Batch No. : 22K104 Date Extracted: 11/10/22 18:53
Sample ID : 380-27390-5 Date Analyzed: 11/10/22 18:53
Lab Samp ID: K104-05 Dilution Factor: 1
Lab File ID: AK10017A Matrix: WATER
Ext Btch ID: 22VGH7K06 % Moisture: NA
Calib. Ref.: AK10016A Instrument ID: H7
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0348	0.0400	87	60-140

=====

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

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

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

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 11/07/22 11:05
Project     : 380-27390                      Date Received: 11/09/22
Batch No.   : 22K104                         Date Extracted: 11/10/22 19:30
Sample ID   : 380-27390-6                   Date Analyzed: 11/10/22 19:30
Lab Samp ID: K104-06                         Dilution Factor: 1
Lab File ID: AK10018A                       Matrix: WATER
Ext Btch ID: 22VGH7K06                      % Moisture: NA
Calib. Ref.: AK10016A                       Instrument ID: H7
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0369	0.0400	92	60-140

Notes:

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

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

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

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 11/07/22 10:09
Project : 380-27390 Date Received: 11/09/22
Batch No. : 22K104 Date Extracted: 11/10/22 20:06
Sample ID : 380-27390-7 Date Analyzed: 11/10/22 20:06
Lab Samp ID: K104-07 Dilution Factor: 1
Lab File ID: AK10019A Matrix: WATER
Ext Btch ID: 22VGH7K06 % Moisture: NA
Calib. Ref.: AK10016A Instrument ID: H7
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0388	0.0400	97	60-140

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

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

```
=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 11/07/22 09:38
Project     : 380-27390                    Date Received: 11/09/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 20:43
Sample ID   : 380-27390-8                 Date Analyzed: 11/10/22 20:43
Lab Samp ID: K104-08                      Dilution Factor: 1
Lab File ID: AK10020A                     Matrix: WATER
Ext Btch ID: 22VGH7K06                    % Moisture: NA
Calib. Ref.: AK10016A                     Instrument ID: H7
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0386	0.0400	96	60-140

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

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QC SUMMARIES

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

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 11/10/22 11:59
Project : 380-27390 Date Received: 11/10/22
Batch No. : 22K104 Date Extracted: 11/10/22 11:59
Sample ID : MBLK1W Date Analyzed: 11/10/22 11:59
Lab Samp ID: VGH7K06B Dilution Factor: 1
Lab File ID: AK10005A Matrix: WATER
Ext Btch ID: 22VGH7K06 % Moisture: NA
Calib. Ref.: AK10004A Instrument ID: H7
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0392	0.0400	98	60-140

=====

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-27390
BATCH NO. : 22K104
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VGH7K06B	VGH7K06L	VGH7K06C
LAB FILE ID	: AK10005A	AK10006A	AK10007A
DATE PREPARED	: 11/10/22 11:59	11/10/22 12:36	11/10/22 13:12
DATE ANALYZED	: 11/10/22 11:59	11/10/22 12:36	11/10/22 13:12
PREP BATCH	: 22VGH7K06	22VGH7K06	22VGH7K06
CALIBRATION REF:	AK10004A	AK10004A	AK10004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.439	88	0.500	0.456	91	4	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0451	113	0.0400	0.0464	116	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-27390
BATCH NO. : 22K104
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 380-27390-1	380-27390-1MS	380-27390-1MSD
LAB SAMPLE ID	: K104-01	K104-01M	K104-01S
LAB FILE ID	: AK10010A	AK10011A	AK10012A
DATE PREPARED	: 11/10/22 14:38	11/10/22 15:14	11/10/22 15:51
DATE ANALYZED	: 11/10/22 14:38	11/10/22 15:14	11/10/22 15:51
PREP BATCH	: 22VGH7K06	22VGH7K06	22VGH7K06
CALIBRATION REF:	AK10004A	AK10004A	AK10004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.465	93	0.500	0.458	92	2	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0446	112	0.0400	0.0456	114	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-27390

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22K104



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-27390

SDG : 22K104

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of four(4) water samples were received on 11/09/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSK016WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. DSK016WL/DSK016WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

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

Sample Analysis

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

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-27390

SDG : 22K104

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of four(4) water samples were received on 11/09/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSK016WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. J5K016WL/J5K016WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

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

Sample Analysis

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

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-27390

SDG : 22K104

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of four(4) water samples were received on 11/09/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSK016WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. J8K016WL/J8K016WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```
=====  
Client      : EUROFINS EATON ANALYTICAL  
Project     : 380-27390  
=====  
SDG NO.    : 22K104  
Instrument ID : D5  
=====
```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
									WATER
MBLK1W	DSK016WB	1	NA	11/11/2215:40	11/10/2216:45	LK10064A	LK10055A	22DSK016W	Method Blank
LCS1W	DSK016WL	1	NA	11/11/2215:59	11/10/2216:45	LK10065A	LK10055A	22DSK016W	Lab Control Sample (LCS)
LCD1W	DSK016WC	1	NA	11/11/2216:17	11/10/2216:45	LK10066A	LK10055A	22DSK016W	LCS Duplicate
380-27390-1	K104-01	1	NA	11/11/2219:41	11/10/2216:45	LK10077A	LK10055A	22DSK016W	Field Sample
380-27390-2	K104-02	1	NA	11/11/2219:59	11/10/2216:45	LK10078A	LK10055A	22DSK016W	Field Sample
380-27390-3	K104-03	1	NA	11/11/2220:17	11/10/2216:45	LK10079A	LK10055A	22DSK016W	Field Sample
380-27390-4	K104-04	1	NA	11/11/2220:36	11/10/2216:45	LK10080A	LK10055A	22DSK016W	Field Sample

```
FN      - Filename  
% Moist - Percent Moisture
```



LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 380-27390
=====
Client      : SDG NO.      : 22K104
Project     : Instrument ID : D5
=====

```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Prep. Data FN	Notes
								WATER
MBLK1W	DSK016WB	1	NA	11/11/2215:40	11/10/2216:45	LK10064A	LK10056A	22DSK016W Method Blank
LCS1W	J5K016WL	1	NA	11/11/2216:36	11/10/2216:45	LK10067A	LK10056A	22DSK016W Lab Control Sample (LCS)
LCD1W	J5K016WC	1	NA	11/11/2216:54	11/10/2216:45	LK10068A	LK10056A	22DSK016W LCS Duplicate
380-27390-1	K104-01	1	NA	11/11/2219:41	11/10/2216:45	LK10077A	LK10056A	22DSK016W Field Sample
380-27390-2	K104-02	1	NA	11/11/2219:59	11/10/2216:45	LK10078A	LK10056A	22DSK016W Field Sample
380-27390-3	K104-03	1	NA	11/11/2220:17	11/10/2216:45	LK10079A	LK10056A	22DSK016W Field Sample
380-27390-4	K104-04	1	NA	11/11/2220:36	11/10/2216:45	LK10080A	LK10056A	22DSK016W Field Sample

FN - Filename
% Moist - Percent Moisture



LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 380-27390
=====
SDG NO.    : 22K104
Instrument ID : D5
=====

```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
	WATER								
MBLK1W	DSK016WB	1	NA	11/11/2215:40	11/10/2216:45	LK10064A	LK10057A	22DSK016W	Method Blank
LCS1W	J8K016WL	1	NA	11/11/2217:12	11/10/2216:45	LK10069A	LK10057A	22DSK016W	Lab Control Sample (LCS)
LCD1W	J8K016WC	1	NA	11/11/2217:31	11/10/2216:45	LK10070A	LK10057A	22DSK016W	LCS Duplicate
380-27390-1	K104-01	1	NA	11/11/2219:41	11/10/2216:45	LK10077A	LK10057A	22DSK016W	Field Sample
380-27390-2	K104-02	1	NA	11/11/2219:59	11/10/2216:45	LK10078A	LK10057A	22DSK016W	Field Sample
380-27390-3	K104-03	1	NA	11/11/2220:17	11/10/2216:45	LK10079A	LK10057A	22DSK016W	Field Sample
380-27390-4	K104-04	1	NA	11/11/2220:36	11/10/2216:45	LK10080A	LK10057A	22DSK016W	Field Sample

FN - Filename
% Moist - Percent Moisture



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SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 10:43
Project    : 380-27390                   Date Received: 11/09/22
Batch No.  : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID  : 380-27390-1                 Date Analyzed: 11/11/22 19:41
Lab Samp ID: 22K104-01                   Dilution Factor: 1
Lab File ID: LK10077A                    Matrix: WATER
Ext Btch ID: 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10055A                    Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.027	0.014
Motor Oil	ND	0.055	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.540	0.545	99	60-130
Hexacosane	0.139	0.136	102	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml Final Volume : 5ml
Prepared by : POrreto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 10:43
Project     : 380-27390                   Date Received: 11/09/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-27390-1                 Date Analyzed: 11/11/22 19:41
Lab Samp ID : 22K104-01                   Dilution Factor: 1
Lab File ID : LK10077A                     Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10056A                     Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.055	0.027	

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.540	0.545	99	60-130
Hexacosane	0.139	0.136	102	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml Final Volume : 5ml
 Prepared by : POrreto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 10:43
Project    : 380-27390                   Date Received: 11/09/22
Batch No.  : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID  : 380-27390-1                 Date Analyzed: 11/11/22 19:41
Lab Samp ID: 22K104-01                   Dilution Factor: 1
Lab File ID: LK10077A                    Matrix: WATER
Ext Btch ID: 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10057A                    Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.055	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.540	0.545	99	60-130
Hexacosane	0.139	0.136	102	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml

Final Volume : 5ml

Prepared by : P0reto

Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 11:05
Project     : 380-27390                   Date Received: 11/09/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-27390-2                 Date Analyzed: 11/11/22 19:59
Lab Samp ID: 22K104-02                     Dilution Factor: 1
Lab File ID: LK10078A                       Matrix: WATER
Ext Btch ID: 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10055A                       Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.026	0.013
Motor Oil	ND	0.052	0.026

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.503	0.520	97	60-130
Hexacosane	0.147	0.130	113	60-130

Notes:
Parameter H-C Range
Diesel C10-C24
Motor Oil C24-C36
Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
Sample Amount : 960ml Final Volume : 5ml
Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 11:05
Project     : 380-27390                   Date Received: 11/09/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-27390-2                 Date Analyzed: 11/11/22 19:59
Lab Samp ID : 22K104-02                   Dilution Factor: 1
Lab File ID : LK10078A                     Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10056A                     Instrument ID: D5
=====
  
```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.503	0.520	97	60-130
Hexacosane	0.147	0.130	113	60-130

Notes:

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

Detection limits are reported relative to sample result significant figures.
 Sample Amount : 960ml Final Volume : 5ml
 Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 11/07/22 11:05
Project    : 380-27390                      Date Received: 11/09/22
Batch No.  : 22K104                         Date Extracted: 11/10/22 16:45
Sample ID  : 380-27390-2                   Date Analyzed: 11/11/22 19:59
Lab Samp ID: 22K104-02                     Dilution Factor: 1
Lab File ID: LK10078A                      Matrix: WATER
Ext Btch ID: 22DSK016W                    % Moisture: NA
Calib. Ref.: LK10057A                     Instrument ID: D5
=====
    
```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.503	0.520	97	60-130
Hexacosane	0.147	0.130	113	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
 Sample Amount : 960ml Final Volume : 5ml
 Prepared by : POrto Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 09:38
Project    : 380-27390                   Date Received: 11/09/22
Batch No.  : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID  : 380-27390-3                 Date Analyzed: 11/11/22 20:17
Lab Samp ID: 22K104-03                   Dilution Factor: 1
Lab File ID: LK10079A                    Matrix: WATER
Ext Btch ID: 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10055A                    Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.025	0.012
Motor Oil	ND	0.049	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.392	0.490	80	60-130
Hexacosane	0.129	0.123	105	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1020ml Final Volume : 5ml
Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 09:38
Project     : 380-27390                   Date Received: 11/09/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-27390-3                 Date Analyzed: 11/11/22 20:17
Lab Samp ID : 22K104-03                   Dilution Factor: 1
Lab File ID : LK10079A                     Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10056A                     Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.049	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.392	0.490	80	60-130
Hexacosane	0.129	0.123	105	60-130

Notes:

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

Detection limits are reported relative to sample result significant figures.
 Sample Amount : 1020ml Final Volume : 5ml
 Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/07/22 09:38
Project    : 380-27390                   Date Received: 11/09/22
Batch No.  : 22K104                      Date Extracted: 11/10/22 16:45
Sample ID  : 380-27390-3                 Date Analyzed: 11/11/22 20:17
Lab Samp ID: 22K104-03                   Dilution Factor: 1
Lab File ID: LK10079A                    Matrix: WATER
Ext Btch ID: 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10057A                    Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.049	0.025	

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.392	0.490	80	60-130
Hexacosane	0.129	0.123	105	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1020ml Final Volume : 5ml
 Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 11/07/22 10:09
Project : 380-27390 Date Received: 11/09/22
Batch No. : 22K104 Date Extracted: 11/10/22 16:45
Sample ID : 380-27390-4 Date Analyzed: 11/11/22 20:36
Lab Samp ID: 22K104-04 Dilution Factor: 1
Lab File ID: LK10080A Matrix: WATER
Ext Btch ID: 22DSK016W % Moisture: NA
Calib. Ref.: LK10055A Instrument ID: D5
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.026	0.013
Motor Oil	ND	0.052	0.026

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.562	0.520	108	60-130
Hexacosane	0.141	0.130	108	60-130

=====

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 960ml Final Volume : 5ml
Prepared by : POrreto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 11/07/22 10:09
Project     : 380-27390                      Date Received: 11/09/22
Batch No.   : 22K104                         Date Extracted: 11/10/22 16:45
Sample ID   : 380-27390-4                   Date Analyzed: 11/11/22 20:36
Lab Samp ID: 22K104-04                      Dilution Factor: 1
Lab File ID: LK10080A                       Matrix: WATER
Ext Btch ID: 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10056A                      Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.052	0.026	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.562	0.520	108	60-130
Hexacosane	0.141	0.130	108	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 960ml Final Volume : 5ml
 Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 11/07/22 10:09
Project     : 380-27390                    Date Received: 11/09/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-27390-4                 Date Analyzed: 11/11/22 20:36
Lab Samp ID: 22K104-04                     Dilution Factor: 1
Lab File ID: LK10080A                      Matrix: WATER
Ext Btch ID: 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10057A                      Instrument ID: D5
=====
    
```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.562	0.520	108	60-130
Hexacosane	0.141	0.130	108	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 960ml Final Volume : 5ml
 Prepared by : POrto Analyzed by : SDeeso

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QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/10/22 16:45
Project     : 380-27390                   Date Received: 11/10/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : MBLK1W                       Date Analyzed: 11/11/22 15:40
Lab Samp ID: DSK016WB                      Dilution Factor: 1
Lab File ID: LK10064A                      Matrix: WATER
Ext Btch ID: 22DSK016W                    % Moisture: NA
Calib. Ref.: LK10055A                     Instrument ID: D5
=====

```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.511	0.500	102	60-130
Hexacosane	0.131	0.125	105	60-130

Notes:

```

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

```

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

```

Sample Amount   : 1000ml           Final Volume : 5ml
Prepared by     : POrto             Analyzed by  : SDeeso

```

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-27390
BATCH NO. : 22K104
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSK016WB	DSK016WL	DSK016WC
LAB FILE ID	: LK10064A	LK10065A	LK10066A
DATE PREPARED	: 11/10/22 16:45	11/10/22 16:45	11/10/22 16:45
DATE ANALYZED	: 11/11/22 15:40	11/11/22 15:59	11/11/22 16:17
PREP BATCH	: 22DSK016W	22DSK016W	22DSK016W
CALIBRATION REF:	LK10055A	LK10055A	LK10055A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.74	110	2.50	2.65	106	3	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.507	101	0.500	0.507	101	60-130
Hexacosane	0.125	0.131	105	0.125	0.129	103	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/10/22 16:45
Project     : 380-27390                   Date Received: 11/10/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : MBLK1W                       Date Analyzed: 11/11/22 15:40
Lab Samp ID : DSK016WB                     Dilution Factor: 1
Lab File ID : LK10064A                     Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10056A                     Instrument ID: D5
=====
    
```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.511	0.500	102	60-130
Hexacosane	0.131	0.125	105	60-130

Notes:

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

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
 Prepared by : POrto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-27390
BATCH NO. : 22K104
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSK016WB	J5K016WL	J5K016WC
LAB FILE ID	: LK10064A	LK10067A	LK10068A
DATE PREPARED	: 11/10/22 16:45	11/10/22 16:45	11/10/22 16:45
DATE ANALYZED	: 11/11/22 15:40	11/11/22 16:36	11/11/22 16:54
PREP BATCH	: 22DSK016W	22DSK016W	22DSK016W
CALIBRATION REF:	LK10056A	LK10056A	LK10056A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.50	2.82	113	2.50	2.57	103	9	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.494	99	0.500	0.483	97	60-130
Hexacosane	0.125	0.133	106	0.125	0.118	94	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/10/22 16:45
Project     : 380-27390                   Date Received: 11/10/22
Batch No.   : 22K104                       Date Extracted: 11/10/22 16:45
Sample ID   : MBLK1W                       Date Analyzed: 11/11/22 15:40
Lab Samp ID: DSK016WB                       Dilution Factor: 1
Lab File ID: LK10064A                       Matrix: WATER
Ext Btch ID: 22DSK016W                       % Moisture: NA
Calib. Ref.: LK10057A                       Instrument ID: D5
=====
  
```

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

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.511	0.500	102	60-130
Hexacosane	0.131	0.125	105	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
 Prepared by : POrto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-27390
BATCH NO. : 22K104
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSK016WB	J8K016WL	J8K016WC
LAB FILE ID	: LK10064A	LK10069A	LK10070A
DATE PREPARED	: 11/10/22 16:45	11/10/22 16:45	11/10/22 16:45
DATE ANALYZED	: 11/11/22 15:40	11/11/22 17:12	11/11/22 17:31
PREP BATCH	: 22DSK016W	22DSK016W	22DSK016W
CALIBRATION REF:	LK10057A	LK10057A	LK10057A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.50	2.98	119	2.50	2.84	114	5	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.477	95	0.500	0.467	93	60-130
Hexacosane	0.125	0.131	105	0.125	0.110	88	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

December 29, 2022

Rosalynn Dang
 Eurofins Eaton Analytical
 750 Royal Oaks Drive
 Suite 100
 Monrovia, CA 91016-

Project Name: Rush Weekly Red Hill HBWS Sites Project # 38001111 Job # 380-27390-1
 Physis Project ID: 1407003-336

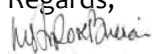
Dear Rosalynn,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 11/9/2022. A total of 4 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

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

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

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

Regards,

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

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-336

Rush Weekly Red Hill HBWS Sites Project # 38001111 Job # 380-27390-1

Total Samples: 4

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
101672	AIEA GULCH WELLS PUMP 331-201-TP071	(380-27390-1)	11/7/2022	10:43	Samplewater	Not Specified
101673	AIEA GULCH WELLS PUMP 331-202-TP072	(380-27390-2)	11/7/2022	11:05	Samplewater	Not Specified
101674	HALAWA WELLS UNITS 1 & 331-206-TP065	(380-27390-3)	11/7/2022	9:38	Samplewater	Not Specified
101675	AIEA WELLS PUMPS 1&2 (260) 331-203-TP400	(380-27390-4)	11/7/2022	10:09	Samplewater	Not Specified

ABBREVIATIONS and ACRONYMS

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

QUALITY ASSURANCE SUMMARY

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

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

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

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

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

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

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

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

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

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

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

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

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

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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

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

TERRA AURA ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

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Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101672-R1	AIEA GULCH WELLS PUMP 1331-20 Matrix: Samplewater						Sampled: 07-Nov-22 10:43		Received: 09-Nov-22		
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	47	1			Total		O-40036	14-Nov-22	13-Dec-22
(d5-Phenol)	EPA 625.1	% Recovery	19	1			Total		O-40036	14-Nov-22	13-Dec-22
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Benzoic Acid	EPA 625.1	µg/L	0.285	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101673-R1	AIEA GULCH WELLS PUMP 2 331-20 Matrix: Samplewater						Sampled: 07-Nov-22 11:05		Received: 09-Nov-22		
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	46	1			Total		O-40036	14-Nov-22	13-Dec-22
(d5-Phenol)	EPA 625.1	% Recovery	19	1			Total		O-40036	14-Nov-22	13-Dec-22
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Benzoic Acid	EPA 625.1	µg/L	0.279	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	13-Dec-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101674-R1	HALAWA WELLS UNITS 1 & 2 331-2	Matrix: Samplewater					Sampled: 07-Nov-22 9:38			Received: 09-Nov-22	
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	46	1			Total		O-40036	14-Nov-22	14-Dec-22
(d5-Phenol)	EPA 625.1	% Recovery	18	1			Total		O-40036	14-Nov-22	14-Dec-22
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Benzoic Acid	EPA 625.1	µg/L	0.231	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101675-R1	AIEA WELLS PUMPS 1&2 (260) 331- Matrix: Samplewater						Sampled: 07-Nov-22 10:09		Received: 09-Nov-22		
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	47	1			Total		O-40036	14-Nov-22	14-Dec-22
(d5-Phenol)	EPA 625.1	% Recovery	21	1			Total		O-40036	14-Nov-22	14-Dec-22
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Benzoic Acid	EPA 625.1	µg/L	0.248	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40036	14-Nov-22	14-Dec-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101672-R1	AIEA GULCH WELLS PUMP 1331-20 Matrix: Samplewater						Sampled: 07-Nov-22 10:43		Received: 09-Nov-22		
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101673-R1	AIEA GULCH WELLS PUMP 2 331-20 Matrix: Samplewater						Sampled: 07-Nov-22 11:05		Received: 09-Nov-22		
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	13-Dec-22

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101674-R1	HALAWA WELLS UNITS 1 & 2 331-2	Matrix: Samplewater					Sampled: 07-Nov-22 9:38			Received: 09-Nov-22	
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 101675-R1	AIEA WELLS PUMPS 1&2 (260) 331- Matrix: Samplewater						Sampled: 07-Nov-22 10:09		Received: 09-Nov-22			
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Dibenzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40036	14-Nov-22	14-Dec-22	

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101672-R1	AIEA GULCH WELLS PUMP 1 331-20 Matrix: Samplewater						Sampled: 07-Nov-22 10:43		Received: 09-Nov-22		
(d10-Acenaphthene)	EPA 625.1	% Recovery	82	1			Total		O-40036	14-Nov-22	13-Dec-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	82	1			Total		O-40036	14-Nov-22	13-Dec-22
(d12-Chrysene)	EPA 625.1	% Recovery	86	1			Total		O-40036	14-Nov-22	13-Dec-22
(d12-Perylene)	EPA 625.1	% Recovery	69	1			Total		O-40036	14-Nov-22	13-Dec-22
(d8-Naphthalene)	EPA 625.1	% Recovery	67	1			Total		O-40036	14-Nov-22	13-Dec-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22



Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101673-R1	AIEA GULCH WELLS PUMP 2 331-20 Matrix: Samplewater						Sampled: 07-Nov-22 11:05		Received: 09-Nov-22		
(d10-Acenaphthene)	EPA 625.1	% Recovery	87	1			Total		O-40036	14-Nov-22	13-Dec-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	85	1			Total		O-40036	14-Nov-22	13-Dec-22
(d12-Chrysene)	EPA 625.1	% Recovery	83	1			Total		O-40036	14-Nov-22	13-Dec-22
(d12-Perylene)	EPA 625.1	% Recovery	60	1			Total		O-40036	14-Nov-22	13-Dec-22
(d8-Naphthalene)	EPA 625.1	% Recovery	69	1			Total		O-40036	14-Nov-22	13-Dec-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	13-Dec-22



Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101674-R1	HALAWA WELLS UNITS 1 & 2 331-2	Matrix: Samplewater					Sampled: 07-Nov-22 9:38			Received: 09-Nov-22	
(d10-Acenaphthene)	EPA 625.1	% Recovery	89	1			Total		O-40036	14-Nov-22	14-Dec-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	87	1			Total		O-40036	14-Nov-22	14-Dec-22
(d12-Chrysene)	EPA 625.1	% Recovery	92	1			Total		O-40036	14-Nov-22	14-Dec-22
(d12-Perylene)	EPA 625.1	% Recovery	71	1			Total		O-40036	14-Nov-22	14-Dec-22
(d8-Naphthalene)	EPA 625.1	% Recovery	85	1			Total		O-40036	14-Nov-22	14-Dec-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22



Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 101675-R1	AIEA WELLS PUMPS 1&2 (260) 331- Matrix: Samplewater						Sampled: 07-Nov-22 10:09		Received: 09-Nov-22		
(d10-Acenaphthene)	EPA 625.1	% Recovery	88	1			Total		O-40036	14-Nov-22	14-Dec-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	86	1			Total		O-40036	14-Nov-22	14-Dec-22
(d12-Chrysene)	EPA 625.1	% Recovery	92	1			Total		O-40036	14-Nov-22	14-Dec-22
(d12-Perylene)	EPA 625.1	% Recovery	68	1			Total		O-40036	14-Nov-22	14-Dec-22
(d8-Naphthalene)	EPA 625.1	% Recovery	73	1			Total		O-40036	14-Nov-22	14-Dec-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Dibenz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Dibenzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Dibenzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40036	14-Nov-22	14-Dec-22



QUALITY CONTROL REPORT

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

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Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY	PRECISION	QA CODE
							LEVEL	RESULT	% LIMITS	% LIMITS	
Sample ID: 101671-B1		QAQC Procedural Blank			Matrix: BlankMatrix		Sampled:		Received:		
		Method: EPA 625.1			Batch ID: O-40036		Prepared: 14-Nov-22		Analyzed: 13-Dec-22		
(2,4,6-Tribromophenol)	Total	49	1			% Recovery	100	49	30 - 130%	PASS	
(d5-Phenol)	Total	51	1			% Recovery	100	51	0 - 130%	PASS	
2,4,5-Trichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,4,6-Trichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,4-Dichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,4-Dinitrophenol	Total	ND	1	0.1	0.2	µg/L					
2,6-Dichlorophenol	Total	ND	1	0.05	0.1	µg/L					
2,6-Di-tert-butyl-4-methylphenol	Total	ND	1	0.05	0.1	µg/L					
2,6-Di-tert-butylphenol	Total	ND	1	0.05	0.1	µg/L					
2-Chlorophenol	Total	ND	1	0.05	0.1	µg/L					
2-Methyl-4,6-dinitrophenol	Total	ND	1	0.1	0.2	µg/L					
2-Methylphenol	Total	ND	1	0.1	0.2	µg/L					
2-Nitrophenol	Total	ND	1	0.1	0.2	µg/L					
3+4-Methylphenol	Total	ND	1	0.1	0.2	µg/L					
4-Chloro-3-methylphenol	Total	ND	1	0.1	0.2	µg/L					
4-Nitrophenol	Total	ND	1	0.1	0.2	µg/L					
6-tert-butyl-2,4-dimethylphenol	Total	ND	1	0.05	0.1	µg/L					
Benzoic Acid	Total	ND	1	0.1	0.2	µg/L					
Benzyl Alcohol	Total	ND	1	0.1	0.2	µg/L					
Pentachlorophenol	Total	ND	1	0.05	0.1	µg/L					
Phenol	Total	ND	1	0.1	0.2	µg/L					
p-tert-Butylphenol	Total	ND	1	0.05	0.1	µg/L					

Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION	QA CODE
							LEVEL	RESULT	%	LIMITS	%	LIMITS
Sample ID: 101671-BS1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
Method: EPA 625.1		Batch ID: O-40036			Prepared: 14-Nov-22		Analyzed: 13-Dec-22					
(2,4,6-Tribromophenol)	Total	58	1			% Recovery	100	0	58	30 - 130%	PASS	
(d5-Phenol)	Total	43	1			% Recovery	100	0	43	0 - 130%	PASS	
2,4,5-Trichlorophenol	Total	0.886	1	0.05	0.1	µg/L	1	0	89	30 - 130%	PASS	
2,4,6-Trichlorophenol	Total	0.831	1	0.05	0.1	µg/L	1	0	83	56 - 118%	PASS	
2,4-Dichlorophenol	Total	0.871	1	0.05	0.1	µg/L	1	0	87	51 - 117%	PASS	
2,4-Dinitrophenol	Total	1.04	1	0.1	0.2	µg/L	1	0	104	0 - 152%	PASS	
2,6-Dichlorophenol	Total	0.871	1	0.05	0.1	µg/L	1	0	87	30 - 130%	PASS	
2,6-Di-tert-butyl-4-methylphenol	Total	0.76	1	0.05	0.1	µg/L	1	0	76	50 - 150%	PASS	
2,6-Di-tert-butylphenol	Total	0.631	1	0.05	0.1	µg/L	1	0	63	50 - 150%	PASS	
2-Chlorophenol	Total	0.811	1	0.05	0.1	µg/L	1	0	81	41 - 110%	PASS	
2-Methyl-4,6-dinitrophenol	Total	0.868	1	0.1	0.2	µg/L	1	0	87	0 - 141%	PASS	
2-Methylphenol	Total	0.865	1	0.1	0.2	µg/L	1	0	87	40 - 117%	PASS	
2-Nitrophenol	Total	0.717	1	0.1	0.2	µg/L	1	0	72	40 - 117%	PASS	
3+4-Methylphenol	Total	0.781	1	0.1	0.2	µg/L	1	0	78	0 - 130%	PASS	
4-Chloro-3-methylphenol	Total	0.89	1	0.1	0.2	µg/L	1	0	89	51 - 128%	PASS	
4-Nitrophenol	Total	0.592	1	0.1	0.2	µg/L	1	0	59	10 - 164%	PASS	
6-tert-butyl-2,4-dimethylphenol	Total	0.632	1	0.05	0.1	µg/L	1	0	63	50 - 150%	PASS	
Benzoic Acid	Total	0.516	1	0.1	0.2	µg/L	1	0	52	2 - 145%	PASS	
Benzyl Alcohol	Total	1.07	1	0.1	0.2	µg/L	1	0	107	43 - 148%	PASS	
Pentachlorophenol	Total	1.08	1	0.05	0.1	µg/L	1	0	108	36 - 111%	PASS	
Phenol	Total	0.789	1	0.1	0.2	µg/L	1	0	79	29 - 114%	PASS	
p-tert-Butylphenol	Total	1.06	1	0.05	0.1	µg/L	1	0	106	50 - 150%	PASS	

Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODE	
							LEVEL	RESULT	%	LIMITS	%	LIMITS		
Sample ID: 101671-BS2		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:			Received:			
Method: EPA 625.1		Batch ID: O-40036			Prepared: 14-Nov-22			Analyzed: 13-Dec-22						
(2,4,6-Tribromophenol)	Total	57	1			% Recovery	100	0	57	30 - 130%	PASS	2	30	PASS
(d5-Phenol)	Total	40	1			% Recovery	100	0	40	0 - 130%	PASS	7	30	PASS
2,4,5-Trichlorophenol	Total	0.745	1	0.05	0.1	µg/L	1	0	75	30 - 130%	PASS	18	30	PASS
2,4,6-Trichlorophenol	Total	0.712	1	0.05	0.1	µg/L	1	0	71	56 - 118%	PASS	16	30	PASS
2,4-Dichlorophenol	Total	0.867	1	0.05	0.1	µg/L	1	0	87	51 - 117%	PASS	0	30	PASS
2,4-Dinitrophenol	Total	1.06	1	0.1	0.2	µg/L	1	0	106	0 - 152%	PASS	2	30	PASS
2,6-Dichlorophenol	Total	0.867	1	0.05	0.1	µg/L	1	0	87	30 - 130%	PASS	0	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.701	1	0.05	0.1	µg/L	1	0	70	50 - 150%	PASS	8	30	PASS
2,6-Di-tert-butylphenol	Total	0.629	1	0.05	0.1	µg/L	1	0	63	50 - 150%	PASS	0	30	PASS
2-Chlorophenol	Total	0.765	1	0.05	0.1	µg/L	1	0	76	41 - 110%	PASS	6	30	PASS
2-Methyl-4,6-dinitrophenol	Total	1.07	1	0.1	0.2	µg/L	1	0	107	0 - 141%	PASS	21	30	PASS
2-Methylphenol	Total	0.734	1	0.1	0.2	µg/L	1	0	73	40 - 117%	PASS	16	30	PASS
2-Nitrophenol	Total	0.75	1	0.1	0.2	µg/L	1	0	75	40 - 117%	PASS	4	30	PASS
3+4-Methylphenol	Total	0.692	1	0.1	0.2	µg/L	1	0	69	0 - 130%	PASS	12	30	PASS
4-Chloro-3-methylphenol	Total	0.704	1	0.1	0.2	µg/L	1	0	70	51 - 128%	PASS	24	30	PASS
4-Nitrophenol	Total	0.681	1	0.1	0.2	µg/L	1	0	68	10 - 164%	PASS	14	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.628	1	0.05	0.1	µg/L	1	0	63	50 - 150%	PASS	0	30	PASS
Benzoic Acid	Total	0.581	1	0.1	0.2	µg/L	1	0	58	2 - 145%	PASS	11	30	PASS
Benzyl Alcohol	Total	1.09	1	0.1	0.2	µg/L	1	0	109	43 - 148%	PASS	2	30	PASS
Pentachlorophenol	Total	1.02	1	0.05	0.1	µg/L	1	0	102	36 - 111%	PASS	6	30	PASS
Phenol	Total	0.703	1	0.1	0.2	µg/L	1	0	70	29 - 114%	PASS	12	30	PASS
p-tert-Butylphenol	Total	0.816	1	0.05	0.1	µg/L	1	0	82	50 - 150%	PASS	26	30	PASS

Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY	PRECISION	QA CODEc
							LEVEL	RESULT	%	LIMITS	%	LIMITS
Sample ID: 101671-B1		QAQC Procedural Blank			Matrix: BlankMatrix		Sampled:		Received:		
Method: EPA 625.1		Batch ID: O-40036		Prepared: 14-Nov-22		Analyzed: 13-Dec-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					
Disalicylideneprapanediamin	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	SOURCE	ACCURACY		PRECISION	QA CODEc
							LEVEL	RESULT	%	LIMITS	%	LIMITS
Sample ID: 101671-BS1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
Method: EPA 625.1		Batch ID: O-40036			Prepared: 14-Nov-22		Analyzed: 13-Dec-22					
2-Chloronaphthalene	Total	0.725	1	0.05	0.1	µg/L	1	0	73	53 - 130%	PASS	
2-Nitroaniline	Total	0.764	1	0.05	0.1	µg/L	1	0	76	69 - 114%	PASS	
3-Nitroaniline	Total	0.867	1	0.05	0.1	µg/L	1	0	87	23 - 137%	PASS	
4-Bromophenylphenyl ether	Total	0.851	1	0.05	0.1	µg/L	1	0	85	61 - 132%	PASS	
4-Chloroaniline	Total	0.743	1	0.05	0.1	µg/L	1	0	74	50 - 150%	PASS	
4-Chlorophenylphenyl ether	Total	0.908	1	0.05	0.1	µg/L	1	0	91	63 - 130%	PASS	
4-Nitroaniline	Total	0.823	1	0.05	0.1	µg/L	1	0	82	10 - 159%	PASS	
Aniline	Total	0.545	1	0.05	0.1	µg/L	1	0	55	50 - 150%	PASS	
Benzidine	Total	0.275	1	0.05	0.1	µg/L	1	0	28	0 - 125%	PASS	
Bis(2-Chloroethoxy) methane	Total	0.896	1	0.05	0.1	µg/L	1	0	90	66 - 122%	PASS	
Bis(2-Chloroethyl) ether	Total	0.919	1	0.05	0.1	µg/L	1	0	92	43 - 127%	PASS	
Bis(2-Chloroisopropyl) ether	Total	1.07	1	0.05	0.1	µg/L	1	0	107	49 - 128%	PASS	
Dibenzofuran	Total	0.954	1	0.05	0.1	µg/L	1	0	95	50 - 150%	PASS	
Disalicylidene-propanediamin	Total	35.9	1	0.05	0.1	µg/L	50	0	72	50 - 150%	PASS	
Hexachloroethane	Total	0.694	1	0.05	0.1	µg/L	1	0	69	27 - 130%	PASS	
Nitrobenzene	Total	0.782	1	0.05	0.1	µg/L	1	0	78	54 - 111%	PASS	
N-Nitrosodi-n-propylamine	Total	0.745	1	0.05	0.1	µg/L	1	0	75	61 - 152%	PASS	
N-Nitrosodiphenylamine	Total	2.11	1	0.05	0.1	µg/L	2	0	105	49 - 142%	PASS	

Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY		PRECISION		QA CODEc	
									%	LIMITS	%	LIMITS		
Sample ID: 101671-BS2		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:				
Method: EPA 625.1		Batch ID: O-40036			Prepared: 14-Nov-22		Analyzed: 13-Dec-22							
2-Chloronaphthalene	Total	0.634	1	0.05	0.1	µg/L	1	0	63	53 - 130%	PASS	13	30	PASS
2-Nitroaniline	Total	0.823	1	0.05	0.1	µg/L	1	0	82	69 - 114%	PASS	8	30	PASS
3-Nitroaniline	Total	0.839	1	0.05	0.1	µg/L	1	0	84	23 - 137%	PASS	4	30	PASS
4-Bromophenylphenyl ether	Total	0.876	1	0.05	0.1	µg/L	1	0	88	61 - 132%	PASS	3	30	PASS
4-Chloroaniline	Total	0.633	1	0.05	0.1	µg/L	1	0	63	50 - 150%	PASS	16	30	PASS
4-Chlorophenylphenyl ether	Total	0.851	1	0.05	0.1	µg/L	1	0	85	63 - 130%	PASS	7	30	PASS
4-Nitroaniline	Total	0.959	1	0.05	0.1	µg/L	1	0	96	10 - 159%	PASS	16	30	PASS
Aniline	Total	0.728	1	0.05	0.1	µg/L	1	0	73	50 - 150%	PASS	30	30	PASS
Benzidine	Total	0.27	1	0.05	0.1	µg/L	1	0	27	0 - 125%	PASS	4	30	PASS
Bis(2-Chloroethoxy) methane	Total	0.889	1	0.05	0.1	µg/L	1	0	89	66 - 122%	PASS	1	30	PASS
Bis(2-Chloroethyl) ether	Total	0.847	1	0.05	0.1	µg/L	1	0	85	43 - 127%	PASS	8	30	PASS
Bis(2-Chloroisopropyl) ether	Total	0.85	1	0.05	0.1	µg/L	1	0	85	49 - 128%	PASS	23	30	PASS
Dibenzofuran	Total	0.735	1	0.05	0.1	µg/L	1	0	74	50 - 150%	PASS	25	30	PASS
Disalicylideneprapanediamin	Total	40.1	1	0.05	0.1	µg/L	50	0	80	50 - 150%	PASS	11	30	PASS
Hexachloroethane	Total	0.56	1	0.05	0.1	µg/L	1	0	56	27 - 130%	PASS	21	30	PASS
Nitrobenzene	Total	0.665	1	0.05	0.1	µg/L	1	0	67	54 - 111%	PASS	17	30	PASS
N-Nitrosodi-n-propylamine	Total	0.746	1	0.05	0.1	µg/L	1	0	75	61 - 152%	PASS	1	30	PASS
N-Nitrosodiphenylamine	Total	2.08	1	0.05	0.1	µg/L	2	0	104	49 - 142%	PASS	1	30	PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY	PRECISION	QA CODE
							LEVEL	RESULT	% LIMITS	% LIMITS	

Sample ID: 101671-B1	QAQC Procedural Blank	Matrix: BlankMatrix	Sampled:	Received:
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Method: EPA 625.1	Batch ID: O-40036	Prepared: 14-Nov-22	Analyzed: 13-Dec-22
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(d10-Acenaphthene)	Total	88	1			% Recovery	100	88	27 - 133%	PASS
(d10-Phenanthrene)	Total	87	1			% Recovery	100	87	43 - 129%	PASS
(d12-Chrysene)	Total	90	1			% Recovery	100	90	52 - 144%	PASS
(d12-Perylene)	Total	67	1			% Recovery	100	67	36 - 161%	PASS
(d8-Naphthalene)	Total	94	1			% Recovery	100	94	25 - 125%	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				
Dibenzothiophene	Total	ND	1	0.001	0.005	µg/L				

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODEc
							LEVEL	RESULT	%	LIMITS	%	LIMITS	
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	SOURCE	ACCURACY	PRECISION	QA CODE	
							LEVEL	RESULT	%	LIMITS	%	LIMITS
Sample ID: 101671-BS1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
Method: EPA 625.1		Batch ID: O-40036			Prepared: 14-Nov-22		Analyzed: 13-Dec-22					
(d10-Acenaphthene)	Total	96	1			% Recovery	100	0	96	27 - 133%	PASS	
(d10-Phenanthrene)	Total	90	1			% Recovery	100	0	90	43 - 129%	PASS	
(d12-Chrysene)	Total	91	1			% Recovery	100	0	91	52 - 144%	PASS	
(d12-Perylene)	Total	84	1			% Recovery	100	0	84	36 - 161%	PASS	
(d8-Naphthalene)	Total	93	1			% Recovery	100	0	93	25 - 125%	PASS	
1-Methylnaphthalene	Total	0.467	1	0.001	0.005	µg/L	0.5	0	93	31 - 128%	PASS	
1-Methylphenanthrene	Total	0.548	1	0.001	0.005	µg/L	0.5	0	110	66 - 127%	PASS	
2,3,5-Trimethylnaphthalene	Total	0.452	1	0.001	0.005	µg/L	0.5	0	90	55 - 122%	PASS	
2,6-Dimethylnaphthalene	Total	0.415	1	0.001	0.005	µg/L	0.5	0	83	48 - 120%	PASS	
2-Methylnaphthalene	Total	1.44	1	0.001	0.005	µg/L	1.5	0	96	47 - 130%	PASS	
Acenaphthene	Total	1.44	1	0.001	0.005	µg/L	1.5	0	96	53 - 131%	PASS	
Acenaphthylene	Total	1.27	1	0.001	0.005	µg/L	1.5	0	85	43 - 140%	PASS	
Anthracene	Total	1.47	1	0.001	0.005	µg/L	1.5	0	98	58 - 135%	PASS	
Benz[a]anthracene	Total	1.5	1	0.001	0.005	µg/L	1.5	0	100	55 - 145%	PASS	
Benzo[a]pyrene	Total	1.51	1	0.001	0.005	µg/L	1.5	0	101	51 - 143%	PASS	
Benzo[b]fluoranthene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	46 - 165%	PASS	
Benzo[e]pyrene	Total	0.444	1	0.001	0.005	µg/L	0.5	0	89	42 - 152%	PASS	
Benzo[g,h,i]perylene	Total	1.54	1	0.001	0.005	µg/L	1.5	0	103	63 - 133%	PASS	
Benzo[k]fluoranthene	Total	1.55	1	0.001	0.005	µg/L	1.5	0	103	56 - 145%	PASS	
Biphenyl	Total	0.401	1	0.001	0.005	µg/L	0.5	0	80	56 - 119%	PASS	
Chrysene	Total	1.52	1	0.001	0.005	µg/L	1.5	0	101	56 - 141%	PASS	
Dibenz[a,h]anthracene	Total	1.35	1	0.001	0.005	µg/L	1.5	0	90	55 - 150%	PASS	
Dibenzo[a,l]pyrene	Total	0.496	1	0.001	0.005	µg/L	0.5	0	99	50 - 150%	PASS	
Dibenzothiophene	Total	0.483	1	0.001	0.005	µg/L	0.5	0	97	46 - 126%	PASS	

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODEc
							LEVEL	RESULT	%	LIMITS	%	LIMITS	
Fluoranthene	Total	1.25	1	0.001	0.005	µg/L	1.5	0	83	60 - 146%	PASS		
Fluorene	Total	1.47	1	0.001	0.005	µg/L	1.5	0	98	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	1.27	1	0.001	0.005	µg/L	1.5	0	85	50 - 151%	PASS		
Naphthalene	Total	1.29	1	0.001	0.005	µg/L	1.5	0	86	41 - 126%	PASS		
Perylene	Total	0.434	1	0.001	0.005	µg/L	0.5	0	87	48 - 141%	PASS		
Phenanthrene	Total	1.48	1	0.001	0.005	µg/L	1.5	0	99	67 - 127%	PASS		
Pyrene	Total	1.5	1	0.001	0.005	µg/L	1.5	0	100	54 - 156%	PASS		



Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODEc	
							LEVEL	RESULT	%	LIMITS	%	LIMITS		
Sample ID: 101671-BS2		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:			Received:			
Method: EPA 625.1		Batch ID: O-40036			Prepared: 14-Nov-22			Analyzed: 13-Dec-22						
(d10-Acenaphthene)	Total	73	1			% Recovery	100	0	73	27 - 133%	PASS	27	30	PASS
(d10-Phenanthrene)	Total	85	1			% Recovery	100	0	85	43 - 129%	PASS	6	30	PASS
(d12-Chrysene)	Total	86	1			% Recovery	100	0	86	52 - 144%	PASS	6	30	PASS
(d12-Perylene)	Total	85	1			% Recovery	100	0	85	36 - 161%	PASS	1	30	PASS
(d8-Naphthalene)	Total	84	1			% Recovery	100	0	84	25 - 125%	PASS	10	30	PASS
1-Methylnaphthalene	Total	0.388	1	0.001	0.005	µg/L	0.5	0	78	31 - 128%	PASS	18	30	PASS
1-Methylphenanthrene	Total	0.528	1	0.001	0.005	µg/L	0.5	0	106	66 - 127%	PASS	4	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.431	1	0.001	0.005	µg/L	0.5	0	86	55 - 122%	PASS	5	30	PASS
2,6-Dimethylnaphthalene	Total	0.34	1	0.001	0.005	µg/L	0.5	0	68	48 - 120%	PASS	20	30	PASS
2-Methylnaphthalene	Total	1.19	1	0.001	0.005	µg/L	1.5	0	79	47 - 130%	PASS	19	30	PASS
Acenaphthene	Total	1.1	1	0.001	0.005	µg/L	1.5	0	73	53 - 131%	PASS	27	30	PASS
Acenaphthylene	Total	1.16	1	0.001	0.005	µg/L	1.5	0	77	43 - 140%	PASS	10	30	PASS
Anthracene	Total	1.39	1	0.001	0.005	µg/L	1.5	0	93	58 - 135%	PASS	5	30	PASS
Benz[a]anthracene	Total	1.44	1	0.001	0.005	µg/L	1.5	0	96	55 - 145%	PASS	4	30	PASS
Benzo[a]pyrene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	51 - 143%	PASS	4	30	PASS
Benzo[b]fluoranthene	Total	1.41	1	0.001	0.005	µg/L	1.5	0	94	46 - 165%	PASS	3	30	PASS
Benzo[e]pyrene	Total	0.458	1	0.001	0.005	µg/L	0.5	0	92	42 - 152%	PASS	3	30	PASS
Benzo[g,h,i]perylene	Total	1.49	1	0.001	0.005	µg/L	1.5	0	99	63 - 133%	PASS	4	30	PASS
Benzo[k]fluoranthene	Total	1.48	1	0.001	0.005	µg/L	1.5	0	99	56 - 145%	PASS	4	30	PASS
Biphenyl	Total	0.351	1	0.001	0.005	µg/L	0.5	0	70	56 - 119%	PASS	13	30	PASS
Chrysene	Total	1.43	1	0.001	0.005	µg/L	1.5	0	95	56 - 141%	PASS	6	30	PASS
Dibenz[a,h]anthracene	Total	1.36	1	0.001	0.005	µg/L	1.5	0	91	55 - 150%	PASS	1	30	PASS
Dibenzo[a,l]pyrene	Total	0.465	1	0.001	0.005	µg/L	0.5	0	93	50 - 150%	PASS	6	30	PASS
Dibenzothiophene	Total	0.458	1	0.001	0.005	µg/L	0.5	0	92	46 - 126%	PASS	5	30	PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODE _c	
							LEVEL	RESULT	%	LIMITS	%	LIMITS		
Fluoranthene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	60 - 146%	PASS	16	30	PASS
Fluorene	Total	1.39	1	0.001	0.005	µg/L	1.5	0	93	58 - 131%	PASS	5	30	PASS
Indeno[1,2,3-cd]pyrene	Total	1.35	1	0.001	0.005	µg/L	1.5	0	90	50 - 151%	PASS	6	30	PASS
Naphthalene	Total	0.992	1	0.001	0.005	µg/L	1.5	0	66	41 - 126%	PASS	26	30	PASS
Perylene	Total	0.464	1	0.001	0.005	µg/L	0.5	0	93	48 - 141%	PASS	7	30	PASS
Phenanthrene	Total	1.39	1	0.001	0.005	µg/L	1.5	0	93	67 - 127%	PASS	6	30	PASS
Pyrene	Total	1.43	1	0.001	0.005	µg/L	1.5	0	95	54 - 156%	PASS	5	30	PASS

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PHYSIS

**TENTATIVELY
IDENTIFIED COMPOUNDS**

ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Sample ID: 101672

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
28.6601	5.7304	1111	Anthracene-D10-	1719-06-8	97
10.3140	1.2047	234	Succinimide	123-56-8	99
21.9385	0.6870	133	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	96
25.9798	0.6016	117	Benzoic acid, 2-ethylhexyl ester	5444-75-7	97
22.7786	0.5581	108	Benzene, 1,2,3,5-tetrachloro-4,6-dimethyl-	877-09-8	98

Concentration estimated using the response for Anthracene-d10

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Sample ID: 101673

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
28.6634	6.9409	1111	Anthracene-D10-	1517-22-2	95
10.3187	1.3424	215	Succinimide	123-56-8	99
25.9797	0.6786	109	Benzoic acid, 2-ethylhexyl ester	5444-75-7	97

Concentration estimated using the response for Anthracene-d10

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Sample ID: 101674

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
28.6578	6.9933	1111	Anthracene-D10-	1719-06-8	96
10.3131	1.3436	213	Succinimide	123-56-8	99
25.9770	0.8044	128	Benzoic acid, 2-ethylhexyl ester	5444-75-7	98
21.9419	0.6293	100	Pentanoic acid, 2,2,4-trimethyl-3-carboxyisopropyl, isobutyl ester	1000140-77-5	95

Concentration estimated using the response for Anthracene-d10

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Sample ID: 101675

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
28.6585	7.0435	1111	Anthracene-D10-	1719-06-8	95
10.3171	1.5269	241	Succinimide	123-56-8	99
25.9798	0.9782	154	Benzoic acid, 2-ethylhexyl ester	5444-75-7	97
21.9409	0.8415	133	Pentanoic acid, 2,2,4-trimethyl-3-carboxyisopropyl, isobutyl ester	1000140-77-5	95

Concentration estimated using the response for Anthracene-d10

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Sample ID: Lab Blank B1_40036

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
28.6745	6.6287	1111	Anthracene-D10-	1719-06-8	97
22.7907	0.7503	126	Benzene, 1,2,3,5-tetrachloro-4,6-dimethyl-	877-09-8	97
25.9903	0.7064	118	Benzoic acid, 2-ethylhexyl ester	5444-75-7	98

Concentration estimated using the response for Anthracene-d10

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PERFORMANCE CHAIN OF CUSTODY

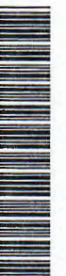
TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

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Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone: 626-386-1100

Chain of Custody Record



eurofins
 Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab P/N:	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	Arada, Rachelle	Arada, Rachelle		380-27390-1
Shipping/Receiving:		E-Mail:	Rachelle.Arada@eurofins.com	State of Origin:	Hawaii
Company:	Physis Environmental Laboratories	Accreditations Required (See note):	State - Hawaii	Job #:	380-27390-1
Address:	1904 Wright Circle,	Due Date Requested:	11/22/2022	Page:	Page 1 of 1
City:	Aradena	TAT Requested (days):		Preservation Codes:	A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
State, Zip:	CA, 92806	Project #:	38001111	Other:	
Phone:		WOC #:			
Email:		SSOW#:			
Project Name:	Rush Weekly Red Hill HBWS Sites				
Sites:	Honolulu BWS Sites				

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Stormwater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
ALFA GULCH WELLS PUMP 1 (331-201-1P071) (380-27390-1)	11/7/22	10:43	Water	Water	X	SUB (625 Acid/Base/PAH + TICs)/ 625 Acid/Base/PAH + TICs	2	See Attached Instructions
ALFA GULCH WELLS PUMP 2 (331-202-1P072) (380-27390-2)	11/7/22	11:05	Water	Water	X		2	See Attached Instructions
HALAWA WELLS UNITS 1 & 2 (331-206-1P065) (380-27390-3)	11/7/22	09:38	Water	Water	X		2	See Attached Instructions
ALFA WELLS PUMPS 1&2 (260) (331-203-1P400) (380-27390-4)	11/7/22	10:09	Water	Water	X		2	See Attached Instructions

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____



Project Iteration ID: 1407003-336
 Client Name: Eurofins Eaton Analytical
 Project Name: Rush Weekly Red Hill HBWS
 Sites Project # 38001111 Job # 380-27390-1
 COC Page Number: 2 of 2
 Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

- Initials Received By: AG
- Date Received: 11/9/22
- Time Received: 12:50
- Client Name: Eurofins
- Courier Information: (Please circle)
 - Client
 - UPS
 - Area Fast
 - DRS
 - FedEx
 - GSO/GLS
 - Ontrac
 - PAMS
 - PHYSIS Driver:
 - Start Time: _____
 - End Time: _____
 - Total Mileage: _____
 - Number of Pickups: _____
- Container Information: (Please put the # of containers or circle none)
 - Cooler
 - Styrofoam Cooler
 - Boxes
 - None
 - Carboy(s)
 - Carboy Trash Can(s)
 - Carboy Cap(s)
 - Other _____
- What type of ice was used: (Please circle any that apply)
 - Wet Ice
 - Blue Ice
 - Dry Ice
 - Water
 - None
- Randomly Selected Samples Temperature (°C): 4.4
 Used I/R Thermometer # 1

Inspection Info

- Initials Inspected By: RGH

Sample Integrity Upon Receipt:

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

Notes:

Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100

Monrovia, CA 91016

Phone: 626-386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler: BAILEY		Lab PM: Arada, Rachele		Carrier Tracking No(s):		COC No: 380-9762-2757.1																																							
Client Contact: Dr. Ron Fenstemacher		Phone: 1-808-748-5840		E-Mail: Rachele.Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 3																																							
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:																																					
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perforh MS/MSD (Yes or No)</td> <td rowspan="5">SUBCONTRACT - 625 PAH Physics LL (EAL) + TICs</td> <td rowspan="5">SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)</td> <td rowspan="5">SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil</td> <td rowspan="5">525.2 -PREC - (MOD) 525plus Plus TICs</td> <td rowspan="5">SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)</td> <td rowspan="5">Total Number of Containers</td> <td colspan="2">Preservation Codes:</td> </tr> <tr> <td>A - HCL</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaO2</td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SO3</td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2S2O3</td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecahydrate</td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> </tr> <tr> <td>K - EDTA</td> <td>W - pH 4-5</td> </tr> <tr> <td>L - EDA</td> <td>Y - Trizma</td> </tr> <tr> <td></td> <td>Z - other (specify)</td> </tr> </table>						Field Filtered Sample (Yes or No)	Perforh MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physics LL (EAL) + TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil	525.2 -PREC - (MOD) 525plus Plus TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Total Number of Containers	Preservation Codes:		A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	G - Amchlor	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA	W - pH 4-5	L - EDA	Y - Trizma		Z - other (specify)	Other:	
Field Filtered Sample (Yes or No)	Perforh MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physics LL (EAL) + TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)															SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil	525.2 -PREC - (MOD) 525plus Plus TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Total Number of Containers	Preservation Codes:																									
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City: Honolulu		TAT Requested (days):		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #:		Project #:																																							
State, Zip: HI, 96843		Project #:		SSOW#:		WO #:		Project Name:																																							
Phone: 808-748-5091(Tel)		Project #:		SSOW#:		Project Name:		Event Desc: RUSH Weekly Red Hill																																							
Email: RFENSTEMACHER@hbws.org		Project #:		SSOW#:		Project Name:		Event Desc: RUSH Weekly Red Hill																																							
Site: Hawaii		Project #:		SSOW#:		Project Name:		Event Desc: RUSH Weekly Red Hill																																							
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AIEA GULCH WELLS PUMP 2								Water																																							
AIEA WELLS PUMPS 1&2 (260)								Water																																							
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HALAWA WELLS UNITS 1&2								Water																																							
MOANALUA WELLS								Water																																							
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HALAWA WELLS UNITS 1&2								Water																																							
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:																																							
Deliverable Requested: I, II, III, IV, Other (specify)								#1 7704 2557 7921 #2 7704 2557 8777																																							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		FED EX #3 7704 2557 8620																																							
Relinquished by: BAILEY		Date/Time: NOV. 7, 2022 1400		Company: HBWS		Received by: J. GREITNER		Date/Time: 11/08/2022 10:00																																							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																																							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																																							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 (630A) 5.5°-5.7° #2 (630A) 2.3°-2.2° #3 (618A) 3.3°-3.1°		} GEL-FROZEN																																									

R4T/B



Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100

Monrovia, CA 91016

Phone: 626-386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler: BAILEY	Lab PM: Arada, Rachele	Carrier Tracking No(s):	COC No: 380-9762-2757.2																													
Client Contact: Dr. Ron Fenstermacher		Phone: 1-808-748-5840	E-Mail: Rachele.Arada@et.eurofins.com	State of Origin:	Page: Page 2 of 3																													
Company: City & County of Honolulu		PWSID:	Analysis Requested																															
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Perforated MS/MSD (Yes or No)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">SUBCONTRACT - 625 PAH Physics LL (EAL) + TICs</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">525.2_PRC - (MOD) 525plus Plus TICs</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>			Field Filtered Sample (Yes or No)	Perforated MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physics LL (EAL) + TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil	525.2_PRC - (MOD) 525plus Plus TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Total Number of containers																					
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City: Honolulu		TAT Requested (days):				<div style="display: flex; justify-content: space-between;"> <div> <p>Preservation Codes:</p> <table style="font-size: small;"> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Y - Trizma</td></tr> <tr><td></td><td>Z - other (specify)</td></tr> </table> </div> <div> <p>Other:</p> </div> </div>			A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	G - Amchlor	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA	W - pH 4-5	L - EDA	Y - Trizma		Z - other (specify)
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State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	<p style="text-align: right;">Special Instructions/Note:</p>																															
Phone: 808-748-5091(Tel)		PO #: C20525101 exp 05312023																																
Email: RFENSTEMACHER@hbws.org		WO #:																																
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111																																
Site: Hawaii		SSOW#:																																
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)													Preservation Code:																
MOANALUA WELLS					Water	X	R																											
AIEA GULCH WELLS PUMP 1					Water		R																											
AIEA GULCH WELLS PUMP 2					Water		RA																											
AIEA WELLS PUMPS 1&2 (260)					Water		RA																											
HALAWA SHAFT					Water																													
HALAWA WELLS UNITS 1&2	Nov. 7, 2022	0738	G		Water	X	X	X	X	1 out of 4 vials arrived broken - GR																								
MOANALUA WELLS					Water																													
AIEA GULCH WELLS PUMP 1					Water																													
AIEA GULCH WELLS PUMP 2					Water																													
AIEA WELLS PUMPS 1&2 (260)	Nov. 7, 2022	1009	G		Water	X	X	X	X																									
HALAWA SHAFT					Water																													

Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client
 Disposal By Lab
 Archive For _____ Months

Special Instructions/QC Requirements: #1 7704 2557 7921
#2 7704 2557 8777

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: **FED EX #3 7704 2557 8620**

Relinquished by: BAILEY	Date/Time: NOV. 7, 2022 1400	Company: HBWS	Received by: [Signature]	Date/Time: 11/08/2022 10:00	Company: EEA
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Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Yes No Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 (630A) 5.8°-5.7° } **GEL-FROZEN**
#2 (630A) 2.3°-2.2° }
#3 (618A) 3.3°-3.1° }

Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100

Monrovia, CA 91016

Phone: 626-386-1100

Chain of Custody Record



Environmental Testing

Client Information		Sampler: BAILEY	Lab PM: Arada, Rachele	Carrier Tracking No(s):	COC No: 380-9762-2757.3									
Client Contact: Dr. Ron Fenstermacher		Phone: 1-800-743-8840	E-Mail: Rachele.Arada@et.eurofinsus.com	State of Origin:	Page: Page 3 of 3									
Company: City & County of Honolulu		PWSID:	Analysis Requested											
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers									
City: Honolulu		TAT Requested (days):				SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil						
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							525.2_PREC - (MOD) 525plus Plus TICs	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)				
Phone: 808-748-5091(Tel)		PO #: C20525101 exp 05312023												
Email: RFENSTEMACHER@hbws.org		WO #:												
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111												
Site: Hawaii		SSOW#:												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Preservation Codes:							
							A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)							
							Special Instructions/Note:							
HALAWA WELLS UNITS 1&2					Water									
MOANALUA WELLS					Water									
TB AIEA GULCH WELLS PUMP1		NOV. 7, 2022	1043		Water				X					
TB AIEA GULCH WELLS PUMP2		NOV. 7, 2022	1105		Water				X					
TB AIEA WELLS PUMPS 1&2 (260)		NOV. 7, 2022	1009		Water				X					
TB HALAWA SHAFT					Water									
TB HALAWA WELLS UNITS 1&2		NOV. 7, 2022	0938		Water				X					
TB MOANALUA WELLS					Water									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: #2 7704 2557 8777 #1 7704 2557 7921												
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment: FED EX #3 7704 2557 0620										
Relinquished by: BAILEY		Date/Time: NOV. 7, 2022 1400	Company: HBWS	Received by: G. REITNER				Date/Time: 11/08/2022 10:00	Company: EEA					
Relinquished by:		Date/Time:	Company:	Received by:				Date/Time:	Company:					
Relinquished by:		Date/Time:	Company:	Received by:				Date/Time:	Company:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 (630A) 5.8° - 5.7° #2 (630A) 2.3° - 2.2° #3 (618A) 3.3° - 3.1° } GEL- FROZEN										

Shipping Order Form - Bottle Order



Environment Testing



Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Shipping Order ID: 9762

Ship Via: FedEx
When To Ship: 11/ 7/2022

Due On: 11/7/2022 11:59:00PM
Due After: 11/7/2022 12:00:00 AM

Ship To Information

Project Manager: *Rachelle Arada*
Tel: (626) 386-1106 Em: *Rachelle.Arada@et.eurofinsus.com*
Company Name: *City & County of Honolulu*
Attention: *Erwin Kawata*
Address 1: *630 South Beretania Street*
Address 2: *Public Service Bldg. Room 308*
Address 3:
City: *Honolulu*
State: *HI*
Zip: *96843*
Phone #: *+1-808-748-5841*
Project Ref: *RED-HILL*
Event Desc: *RUSH Weekly Red Hill*

Notes to Bottle/Shipping Department

Pack with Gel Ice.

Please pack as one cooler per site.

Label the cooler under the left hand handle with the ID of the samples that are in the cooler (If more than 1 cooler is used per 1 sample ID label cooler with "sample ID x of y").

Pack by sample ID on the botte labels (with one full set of tests per sample ID).

Send only medium to large coolers.

Shipping Method: **Individual sample per cooler (affixed TALS labels)**

- | | |
|--|---|
| <input checked="" type="checkbox"/> Ready to Fill | <input type="checkbox"/> Return Shipment Labels |
| <input checked="" type="checkbox"/> Preprinted COC | <input type="checkbox"/> Prepaid Return |
| <input type="checkbox"/> <input type="text" value="1"/> Number of COC Copies | Monrovia, CA (Suite 100) |
| <input type="checkbox"/> Seals on Bottle | <input type="checkbox"/> Short Hold Times |
| <input type="checkbox"/> Seals on Coolers | <input checked="" type="checkbox"/> Temperature Control |
| <input type="checkbox"/> Priority | <input type="checkbox"/> Rush |

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

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Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Bottle Order Information

Bottle Order: RUSH RED-HILL WEEKLY
 Bottle Order #: 2757
 Request From Client: 7/20/2022
 Date Order Posted: 7/20/2022 11:12:54AM
 Order Status: Ready To Process
 Prepared By: Davis Haley
Deliver By Date: 11/7/2022 11:59:00PM
 Lab Project Number: 38001111
 PWSID:

Order Completion Information

Creator: Davis Haley
 Filled by:
 Sent Date:
 Sent Via:
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
6	2	12	Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	Water	Normal	625 PAH	
6	4	24	Voa Vial 40ml - SodiumThio w/HCl-dropper	Sodium Thiosulfate	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Water	Normal		
6	2	12	Amber Glass 1 L - NaThiosulfate 8mL HCL	Sodium Thiosulfate/Hydrochloric Acid	SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil	Water	Normal		
6	2	12	Amber Glass 1 Liter- Sodium Sulfite/HCl	Sodium Sulfite w/HCl	525.2_PREC - (MOD) 525plus Plus TICs	Water	Normal		
6	2	12	VOA Vial 40mL - NaThiosulfate/HCL	Sodium Thiosulfate/Hydrochloric Acid	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Water	Trip Blank		

Total Bottle Summary		
Bottle Type Description	Preservative	Bottle Count
Amber Glass 1 L - NaThiosulfate 8mL HCL	Sodium Thiosulfate/Hydrochloric Acir	12
Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	12
Amber Glass 1 Liter- Sodium Sulfite/HCl	Sodium Sulfite w/HCl	12
VOA Vial 40mL - NaThiosulfate/HCL	Sodium Thiosulfate/Hydrochloric Acir	12
Voa Vial 40ml - SodiumThio w/HCl-dropper	Sodium Thiosulfate	24
Total Bottles:		<u>72</u>

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Notes to Field Staff:



Scan QR code for field sampler instructions

SAMPLER FOLLOW 2 STAGE FIELD PRESERVATION FOR 8015 and 525.2

Health and Safety Notes:

Preservative	Comment
Sodium Sulfite w/HCl	CAUTION! CONTAINS SODIUM SULFITE. Harmful if inhaled. Use adequate ventilation. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Sodium Thiosulfate	CAUTION! CONTAINS 10% SODIUM THIOSULFATE. Harmful if inhaled. Use adequate ventilation. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Sodium Thiosulfate/Hydrochloric Acid	CAUTION! CONTAINS 10% SODIUM THIOSULFATE. Harmful if inhaled. Use adequate ventilation. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water. Contains 13.3% Monochloroacetic Acid. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water. CAUTION! CONTAINS 1:1 HYDROCHLORIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

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Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-27390-1

Login Number: 27390
List Number: 1
Creator: Segura, Ryan

List Source: Eurofins Eaton Monrovia

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