eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 308
Honolulu, Hawaii 96843

Generated 12/16/2022 11:58:47 AM

JOB DESCRIPTION

RED-HILL

JOB NUMBER

380-24805-1

Eurofins Eaton Monrovia
750 Royal Oaks Drive
Suite 100
Monrovia CA 91016

See page two for job notes and contact information.

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

Rachelle Arada

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Authorized for release by
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Table of Contents

Definitions/Glossary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Analyte was found in the associated method blank.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^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.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Cal bration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Analyte was found in the associated method blank.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate 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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job ID: 380-24805-1

Laboratory: Eurofins Eaton Monrovia

Narrative

Job Narrative
380-24805-1

Comments
No additional comments.

Receipt
The samples were received on 10/18/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.1º C, 5.1º C, 5.6º C an 5.7º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The methods and other sample information were indicated for the wrong sample on the first page of the COC. They were noted for AIEA GULCH WELLS PUMP (331-201-TP071), and they should've been noted for the sample below it, AIEA GULCH WELLS PUMP 2 (331-201-TP072). All containers received were from Pump 2.

GC/MS VOA
Method 524.2: The method blank for batch 380-21256 contained 1,2,3-Trichlorobenzene and Naphthalene above the reporting (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 380-21256 recovered outside control limits for the following analytes: 1,1,2-Trichloro-1,2,2- Trifluoroethane, 1,3-Dichlorobenzene 1,4-Dichlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 4-Isopropyltoluene, ethyl bromide, methylene chloride, trichloroethene, Xylenes, Total 1,1-Dichloroethane, 1,1-Dichlorethylene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Bromobenzene, Bromomethane (Methyl Bromide), Carbon disulfide, Chloroethane, Dichlorodifluoromethane, Ethylbenzene, Hexachlorobutadien m,p-Xylenes, N-Propylbenzene, o-Xylene, sec-Butylbenzene, Styrene, tert-Butylbenzene, Toluene, trans-1,2-Dichloroethylene, Trichlorofluoromethane (Freon 11), Chloromethane (methyl chloride) and Diisopropyl ether. These analytes were biased high in LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 524.2: The continuing calibration verification (CCV) associated with batch 380-21256 recovered above the upper contro limit for 1,2,4-Trimethylbenzene, Carbon disulfide, Chloroethane and Styrene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 524.2: The continuing calibration verification (CCV) associated with batch 380-21256 recovered above the upper contro limit for m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data hav been reported.

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

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

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

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

Metals
Method 200.8: The continuing calibration blank (CCB) for analytical batch 380-21591 contained Cadmium and Silver above the

Job ID: 380-24805-1 (Continued)

Laboratory: Eurofins Eaton Monrovia (Continued)

Method Detection Limit (MDL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

General Chemistry
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 Ethanol, 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: RED-HILL

Job ID: 380-24805-1

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

Lab Sample ID: 380-24805-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.0054		0.0020		ug/L	1		505	Total/NA
Bromide	110		5.0		ug/L	1		300.0	Total/NA
Chloride	71		1.0		mg/L	2		300.0	Total/NA
Nitrate as N	0.49		0.10		mg/L	2		300.0	Total/NA
Nitrate Nitrite as N	0.49		0.10		mg/L	2		300.0	Total/NA
Sulfate	9.7		0.50		mg/L	2		300.0	Total/NA
Calcium	19		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	15		0.10		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.8		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	29		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	1.7		1.0		ug/L	1		200.8	Total Recoverable
Copper	2.0		2.0		ug/L	1		200.8	Total Recoverable
A kalinity	55	*-	2.0		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	55	B	2.0		mg/L	1		SM 2320B	Total/NA
Specific Conductance	370		2.0		umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	250		20		mg/L	1		SM 2540C	Total/NA
pH	7.8	HF			SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-24805-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

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

Lab Sample ID: 380-24805-1

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Matrix: Water

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	ND		2.0		ug/L			10/20/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/22 23:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/20/22 23:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*10/20/22 23:34*	*1*

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/21/22 16:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/21/22 16:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/22 16:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/21/22 16:58	1
1,1-Dichlorethylene	ND		0.50		ug/L			10/21/22 16:58	1
1,1-Dichloroethane	ND		0.50		ug/L			10/21/22 16:58	1
1,1-Dichloropropene	ND		0.50		ug/L			10/21/22 16:58	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			10/21/22 16:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/21/22 16:58	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			10/21/22 16:58	1
1,2,4-Trimethy benzene	ND		0.50		ug/L			10/21/22 16:58	1
1,2-Dichloroethane	ND		0.50		ug/L			10/21/22 16:58	1
1,2-Dichloropropane	ND		0.50		ug/L			10/21/22 16:58	1
1,3,5-Trimethy benzene	ND	*1	0.50		ug/L			10/21/22 16:58	1
1,3-Dichloropropane	ND		0.50		ug/L			10/21/22 16:58	1
1,3-Dichloropropene, Total	ND		0.50		ug/L			10/21/22 16:58	1
2,2-Dichloropropane	ND		0.50		ug/L			10/21/22 16:58	1
2-Butanone (MEK)	ND		5.0		ug/L			10/21/22 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/21/22 16:58	1
Acetone	ND		500		ug/L			10/21/22 16:58	1
Benzene	ND		0.50		ug/L			10/21/22 16:58	1
Bromobenzene	ND		0.50		ug/L			10/21/22 16:58	1
Bromochloromethane	ND		0.50		ug/L			10/21/22 16:58	1
Bromodichloromethane	ND		0.50		ug/L			10/21/22 16:58	1
Bromoethane	ND		0.50		ug/L			10/21/22 16:58	1
Bromoform	ND		0.50		ug/L			10/21/22 16:58	1
Bromomethane (Methyl Bromide)	ND	*1	0.50		ug/L			10/21/22 16:58	1
Carbon disulfide	ND		0.50		ug/L			10/21/22 16:58	1
Carbon tetrachloride	ND		0.50		ug/L			10/21/22 16:58	1
Chlorobenzene	ND		0.50		ug/L			10/21/22 16:58	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/22 16:58	1
Chloroethane	ND		0.50		ug/L			10/21/22 16:58	1
Chloroform (Trichloromethane)	ND		0.50		ug/L			10/21/22 16:58	1
Chloromethane (methyl chloride)	ND	*1	0.50		ug/L			10/21/22 16:58	1
cis-1,2-Dichloroethylene	ND		0.50		ug/L			10/21/22 16:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/21/22 16:58	1
Dibromomethane	ND		0.50		ug/L			10/21/22 16:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/21/22 16:58	1
Dichloromethane	ND		0.50		ug/L			10/21/22 16:58	1
Diisopropyl ether	ND		3.0		ug/L			10/21/22 16:58	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-1
Matrix: Water

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50		ug/L			10/21/22 16:58	1
Hexachlorobutadiene	ND		0.50		ug/L			10/21/22 16:58	1
Isopropy benzene	ND		0.50		ug/L			10/21/22 16:58	1
m,p-Xylenes	ND		0.50		ug/L			10/21/22 16:58	1
m-Dichlorobenzene (1,3-DCB)	ND		0.50		ug/L			10/21/22 16:58	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50		ug/L			10/21/22 16:58	1
Naphthalene	ND		0.50		ug/L			10/21/22 16:58	1
n-Butylbenzene	ND		0.50		ug/L			10/21/22 16:58	1
N-Propylbenzene	ND		0.50		ug/L			10/21/22 16:58	1
o-Chlorotoluene	ND		0.50		ug/L			10/21/22 16:58	1
o-Dichlorobenzene (1,2-DCB)	ND		0.50		ug/L			10/21/22 16:58	1
o-Xylene	ND		0.50		ug/L			10/21/22 16:58	1
p-Chlorotoluene	ND		0.50		ug/L			10/21/22 16:58	1
p-Dichlorobenzene (1,4-DCB)	ND		0.50		ug/L			10/21/22 16:58	1
p-Isopropyltoluene	ND		0.50		ug/L			10/21/22 16:58	1
sec-Butylbenzene	ND		0.50		ug/L			10/21/22 16:58	1
Styrene	ND	*1	0.50		ug/L			10/21/22 16:58	1
Tert-amyl methyl ether	ND		3.0		ug/L			10/21/22 16:58	1
Tert-butyl ethyl ether	ND		3.0		ug/L			10/21/22 16:58	1
tert-Butylbenzene	ND		0.50		ug/L			10/21/22 16:58	1
Tetrachloroethene (PCE)	ND		0.50		ug/L			10/21/22 16:58	1
Toluene	ND		0.50		ug/L			10/21/22 16:58	1
trans-1,2-Dichloroethylene	ND		0.50		ug/L			10/21/22 16:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/21/22 16:58	1
Trichloroethylene (TCE)	ND		0.50		ug/L			10/21/22 16:58	1
Trichlorofluoromethane (Freon 11)	ND		0.50		ug/L			10/21/22 16:58	1
Trichlorotrifluoroethane	ND		0.50		ug/L			10/21/22 16:58	1
Vinyl Chloride (VC)	ND		0.30		ug/L			10/21/22 16:58	1
Xylenes, Total	ND		0.50		ug/L			10/21/22 16:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*20*	*T J*	*ug/L*		*0.99*			*10/21/22 16:58*	*1*
3-Octene, (E)-	*0.92*	*T J N*	*ug/L*		*12.03*	*14919-01-8*		*10/21/22 16:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*10/21/22 16:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/21/22 16:58*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/21/22 16:58*	*1*

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		10/21/22 07:31	10/24/22 23:51	1
2,4'-DDE	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
2,4'-DDT	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
2,4-Dinitrotoluene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
2,6-Dinitrotoluene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
4,4'-DDD	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
4,4'-DDE	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
4,4'-DDT	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Acenaphthylene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Acetochlor	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Alachlor	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
alpha-BHC	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
alpha-Chlordane	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Anthracene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 23:51	1
Atrazine	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Benz(a)anthracene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Benzo[a]pyrene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 23:51	1
Benzo[b]fluoranthene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 23:51	1
Benzo[g,h,i]perylene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Benzo[k]fluoranthene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 23:51	1
beta-BHC	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Bis(2-ethylhexyl) phthalate	ND		0.59		ug/L		10/21/22 07:31	10/24/22 23:51	1
Bromacil	ND	^3+ *+	0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Butachlor	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Butylbenzylphthalate	ND		0.49		ug/L		10/21/22 07:31	10/24/22 23:51	1
Chlorobenzilate	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Chloroneb	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Chlorothalonil (Draconil, Bravo)	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Chlorpyrifos	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Chrysene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 23:51	1
delta-BHC	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Di(2-ethylhexyl)adipate	ND		0.59		ug/L		10/21/22 07:31	10/24/22 23:51	1
Dibenz(a,h)anthracene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Diclorvos (DDVP)	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Dieldrin	ND		0.20		ug/L		10/21/22 07:31	10/24/22 23:51	1
Diethylphthalate	ND		0.49		ug/L		10/21/22 07:31	10/24/22 23:51	1
Dimethylphthalate	ND		0.49		ug/L		10/21/22 07:31	10/24/22 23:51	1
Di-n-butyl phthalate	ND		0.98		ug/L		10/21/22 07:31	10/24/22 23:51	1
Di-n-octyl phthalate	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Endosulfan I (Alpha)	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Endosulfan II (Beta)	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Endosulfan sulfate	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Endrin	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Endrin aldehyde	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
EPTC	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Fluoranthene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Fluorene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
gamma-BHC (Lindane)	ND		0.039		ug/L		10/21/22 07:31	10/24/22 23:51	1
gamma-Chlordane	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Heptachlor	ND		0.039		ug/L		10/21/22 07:31	10/24/22 23:51	1
Heptachlor epoxide (isomer B)	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Hexachlorobenzene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Hexachlorocyclopentadiene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Indeno[1,2,3-cd]pyrene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Isophorone	ND		0.49		ug/L		10/21/22 07:31	10/24/22 23:51	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Malathion	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Methoxychlor	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Metolachlor	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Metribuzin	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Molinate	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Naphthalene	ND		0.29		ug/L		10/21/22 07:31	10/24/22 23:51	1
Parathion	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Pendimethalin (Penoxaline)	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Phenanthrene	ND		0.039		ug/L		10/21/22 07:31	10/24/22 23:51	1
Propachlor	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Pyrene	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Simazine	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Terbacil	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Terbuthylazine	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
Thiobencarb	ND		0.20		ug/L		10/21/22 07:31	10/24/22 23:51	1
Total Permethrin (mixed isomers)	ND		0.20		ug/L		10/21/22 07:31	10/24/22 23:51	1
trans-Nonachlor	ND		0.049		ug/L		10/21/22 07:31	10/24/22 23:51	1
Trifluralin	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
1-Methylnaphthalene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1
2-Methylnaphthalene	ND		0.098		ug/L		10/21/22 07:31	10/24/22 23:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclotetrasiloxane, octamethyl-	*0.65*	*T J N*	*ug/L*		*2.45*	*556-67-2*	*10/21/22 07:31*	*10/24/22 23:51*	*1*
Decane	*1.4*	*T J N*	*ug/L*		*2.61*	*124-18-5*	*10/21/22 07:31*	*10/24/22 23:51*	*1*
Cyclopentasiloxane, decamethyl-	*0.85*	*T J N*	*ug/L*		*2.91*	*541-02-6*	*10/21/22 07:31*	*10/24/22 23:51*	*1*
n-Hexadecanoic acid	*0.56*	*T J N*	*ug/L*		*6.11*	*57-10-3*	*10/21/22 07:31*	*10/24/22 23:51*	*1*
1-Pentadecanethiol	*0.63*	*T J N*	*ug/L*		*7.46*	*25276-70-4*	*10/21/22 07:31*	*10/24/22 23:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*97*		*70 - 130*	*10/21/22 07:31*	*10/24/22 23:51*	*1*
Perylene-d12	*87*		*70 - 130*	*10/21/22 07:31*	*10/24/22 23:51*	*1*
Triphenylphosphate	*115*		*70 - 130*	*10/21/22 07:31*	*10/24/22 23:51*	*1*

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.040		ug/L		10/20/22 13:23	10/21/22 05:34	1
1,2-D bromo-3-Chloropropane	ND		0.010		ug/L		10/20/22 13:23	10/21/22 05:34	1
1,2-D bromoethane	ND		0.010		ug/L		10/20/22 13:23	10/21/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane (Surr)	*111*		*60 - 140*	*10/20/22 13:23*	*10/21/22 05:34*	*1*

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
Aldrin	ND		0.0020		ug/L		10/20/22 13:52	10/20/22 19:33	1
Chlordane (n.o.s.)	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
Dieldrin	**0.0054**		0.0020		ug/L		10/20/22 13:52	10/20/22 19:33	1
Endrin	ND		0.010		ug/L		10/20/22 13:52	10/20/22 19:33	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-1
Matrix: Water

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.010		ug/L		10/20/22 13:52	10/20/22 19:33	1
Heptachlor	ND		0.010		ug/L		10/20/22 13:52	10/20/22 19:33	1
Heptachlor epoxide	ND		0.010		ug/L		10/20/22 13:52	10/20/22 19:33	1
Methoxychlor	ND		0.050		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1016	ND		0.070		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1221	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1232	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1242	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1248	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1254	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
PCB-1260	ND		0.070		ug/L		10/20/22 13:52	10/20/22 19:33	1
Polychlorinated biphenyls, Total	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1
Toxaphene	ND		0.10		ug/L		10/20/22 13:52	10/20/22 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*70 - 130*	*10/20/22 13:52*	*10/20/22 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**110**		5.0		ug/L			10/24/22 23:54	1
Chloride	**71**		1.0		mg/L			10/18/22 16:52	2
Nitrate as N	**0.49**		0.10		mg/L			10/18/22 16:52	2
Nitrate Nitrite as N	**0.49**		0.10		mg/L			10/18/22 16:52	2
Sulfate	**9.7**		0.50		mg/L			10/18/22 16:52	2
Nitrite as N	ND		0.10		mg/L			10/18/22 16:52	2

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**19**		1.0		mg/L			10/24/22 14:11	1
Magnesium	**15**		0.10		mg/L			10/24/22 14:11	1
Potassium	**1.8**		1.0		mg/L			10/24/22 14:11	1
Sodium	**29**		1.0		mg/L			10/24/22 14:11	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Arsenic	ND		1.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Beryllium	ND		1.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Cadmium	ND	^2	0.50		ug/L		10/20/22 14:15	10/21/22 15:03	1
Chromium	**1.7**		1.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Copper	**2.0**		2.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Lead	ND		0.50		ug/L		10/20/22 14:15	10/21/22 15:03	1
Nickel	ND		5.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Selenium	ND		5.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Silver	ND	^2	0.50		ug/L		10/20/22 14:15	10/21/22 15:03	1
Thallium	ND		1.0		ug/L		10/20/22 14:15	10/21/22 15:03	1
Zinc	ND		20		ug/L		10/20/22 14:15	10/21/22 15:03	1

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

Lab Sample ID: 380-24805-1

Date Collected: 10/17/22 11:04

Matrix: Water

Date Received: 10/18/22 09:40

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		ug/L		11/07/22 10:10	11/07/22 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**55**	***-**	2.0		mg/L			10/26/22 01:56	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**55**	**B**	2.0		mg/L			10/26/22 01:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		2.0		mg/L			10/26/22 01:56	1
Specific Conductance (SM 2510B)	**370**		2.0		umhos/cm			10/26/22 01:56	1
Total Dissolved Solids (SM 2540C)	**250**		20		mg/L			10/18/22 16:10	1
Fluoride (SM 4500 F C)	ND		0.050		mg/L			10/25/22 22:53	1
pH (SM 4500 H+ B)	**7.8**	**HF**			SU			10/26/22 01:56	1
Sulfide (SM 4500 S2 D)	ND		0.050		mg/L			10/18/22 20:31	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		10/20/22 00:00	11/14/22 15:54	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Chlorophenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Methylphenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Nitroaniline	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
2-Nitrophenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
3-Nitroaniline	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
4-Chloroaniline	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
4-Nitroaniline	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
4-Nitrophenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Acenaphthene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Acenaphthylene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Aniline	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Anthracene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-1
Matrix: Water

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
Benzidine	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzoic Acid	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
Biphenyl	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Chrysene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Dibenzofuran	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Dibenzothiophene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Disalicylidenepropanediamine	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Fluoranthene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Fluorene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Hexachloroethane	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Naphthalene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Nitrobenzene	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Pentachlorophenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Perylene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Phenanthrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1
Phenol	ND		0.2	0.1	µg/L		10/20/22 00:00	11/14/22 15:54	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		10/20/22 00:00	11/14/22 15:54	1
Pyrene	ND		0.005	0.001	µg/L		10/20/22 00:00	11/14/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
(2,4,6-Tribromophenol)	*95*		*31 - 143*	*10/20/22 00:00*	*11/14/22 15:54*	*1*
(d10-Acenaphthene)	*78*		*45 - 118*	*10/20/22 00:00*	*11/14/22 15:54*	*1*
(d10-Phenanthrene)	*94*		*56 - 123*	*10/20/22 00:00*	*11/14/22 15:54*	*1*
(d12-Chrysene)	*106*		*36 - 142*	*10/20/22 00:00*	*11/14/22 15:54*	*1*
(d12-Perylene)	*97*		*36 - 161*	*10/20/22 00:00*	*11/14/22 15:54*	*1*
(d5-Phenol)	*33*		*0 - 85*	*10/20/22 00:00*	*11/14/22 15:54*	*1*
(d8-Naphthalene)	*69*		*20 - 112*	*10/20/22 00:00*	*11/14/22 15:54*	*1*

Method: 8015 Ethanol - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ETHANOL	ND	U	2000		ug/L			10/21/22 14:13	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			10/21/22 15:54	1

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

Lab Sample ID: 380-24805-1

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOFLUOROBENZENE	*97*		*60 - 140*		*10/21/22 15:54*	*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	0.030		mg/L			10/25/22 01:08	1
JP5	ND	U	0.059		mg/L			10/25/22 01:08	1
JP8	ND	U	0.059		mg/L			10/25/22 01:08	1
MOTOR OIL	ND	U	0.059		mg/L			10/25/22 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOBENZENE	*96*		*60 - 130*		*10/25/22 01:08*	*1*
HEXACOSANE	*100*		*60 - 130*		*10/25/22 01:08*	*1*

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-24805-2

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Matrix: Water

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	ND		2.0		ug/L			10/27/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/27/22 16:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/27/22 16:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*10/27/22 16:43*	*1*

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/20/22 01:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/20/22 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/22 01:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/20/22 01:31	1
1,1-Dichloroethane	ND	*+	0.50		ug/L			10/20/22 01:31	1
1,1-Dichlorethylene	ND	*+	0.50		ug/L			10/20/22 01:31	1
1,1-Dichloropropene	ND		0.50		ug/L			10/20/22 01:31	1
1,2,3-Trichlorobenzene	ND	B	0.50		ug/L			10/20/22 01:31	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/20/22 01:31	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			10/20/22 01:31	1
1,2,4-Trimethy benzene	ND	*+ ^+	0.50		ug/L			10/20/22 01:31	1
1,2-Dichloroethane	ND		0.50		ug/L			10/20/22 01:31	1
1,2-Dichloropropane	ND		0.50		ug/L			10/20/22 01:31	1
1,3,5-Trimethy benzene	ND	*+	0.50		ug/L			10/20/22 01:31	1
1,3-Dichloropropane	ND		0.50		ug/L			10/20/22 01:31	1
2,2-Dichloropropane	ND		0.50		ug/L			10/20/22 01:31	1
2-Butanone (MEK)	ND		5.0		ug/L			10/20/22 01:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/20/22 01:31	1
Acetone	ND		500		ug/L			10/20/22 01:31	1
Benzene	ND		0.50		ug/L			10/20/22 01:31	1
Bromobenzene	ND	*+	0.50		ug/L			10/20/22 01:31	1
Bromochloromethane	ND		0.50		ug/L			10/20/22 01:31	1

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-2

Matrix: Water

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50		ug/L			10/20/22 01:31	1
Bromoform	ND		0.50		ug/L			10/20/22 01:31	1
Bromomethane (Methyl Bromide)	ND	*+	0.50		ug/L			10/20/22 01:31	1
Carbon disulfide	ND	*+ ^+	0.50		ug/L			10/20/22 01:31	1
Carbon tetrachloride	ND		0.50		ug/L			10/20/22 01:31	1
Chlorobenzene	ND		0.50		ug/L			10/20/22 01:31	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/22 01:31	1
Chloroethane	ND	*+ ^+	0.50		ug/L			10/20/22 01:31	1
Chloroform (Trichloromethane)	ND		0.50		ug/L			10/20/22 01:31	1
Dichloromethane	ND	*+	0.50		ug/L			10/20/22 01:31	1
cis-1,2-Dichloroethylene	ND		0.50		ug/L			10/20/22 01:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/20/22 01:31	1
Dibromomethane	ND		0.50		ug/L			10/20/22 01:31	1
Dichlorodifluoromethane	ND	*+ *1	0.50		ug/L			10/20/22 01:31	1
Ethylbenzene	ND	*+	0.50		ug/L			10/20/22 01:31	1
Hexachlorobutadiene	ND	*+	0.50		ug/L			10/20/22 01:31	1
Isopropy benzene	ND		0.50		ug/L			10/20/22 01:31	1
m,p-Xylenes	ND	*+ ^+	0.50		ug/L			10/20/22 01:31	1
m-Dichlorobenzene (1,3-DCB)	ND	*+	0.50		ug/L			10/20/22 01:31	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50		ug/L			10/20/22 01:31	1
Naphthalene	ND	B	0.50		ug/L			10/20/22 01:31	1
n-Butylbenzene	ND		0.50		ug/L			10/20/22 01:31	1
N-Propylbenzene	ND	*+	0.50		ug/L			10/20/22 01:31	1
o-Dichlorobenzene (1,2-DCB)	ND		0.50		ug/L			10/20/22 01:31	1
o-Chlorotoluene	ND	*+	0.50		ug/L			10/20/22 01:31	1
o-Xylene	ND	*+	0.50		ug/L			10/20/22 01:31	1
p-Chlorotoluene	ND	*+	0.50		ug/L			10/20/22 01:31	1
p-Dichlorobenzene (1,4-DCB)	ND	*+	0.50		ug/L			10/20/22 01:31	1
p-Isopropyltoluene	ND	*+	0.50		ug/L			10/20/22 01:31	1
sec-Butylbenzene	ND	*+	0.50		ug/L			10/20/22 01:31	1
Styrene	ND	*+ ^+	0.50		ug/L			10/20/22 01:31	1
Tert-amyl methyl ether	ND		3.0		ug/L			10/20/22 01:31	1
Tert-butyl ethyl ether	ND		3.0		ug/L			10/20/22 01:31	1
tert-Butylbenzene	ND	*+	0.50		ug/L			10/20/22 01:31	1
Tetrachloroethene (PCE)	ND		0.50		ug/L			10/20/22 01:31	1
Toluene	ND	*+	0.50		ug/L			10/20/22 01:31	1
1,3-Dichloropropene, Total	ND		0.50		ug/L			10/20/22 01:31	1
Xylenes, Total	ND	*+	0.50		ug/L			10/20/22 01:31	1
trans-1,2-Dichloroethylene	ND	*+	0.50		ug/L			10/20/22 01:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/20/22 01:31	1
Trichloroethylene (TCE)	ND	*+	0.50		ug/L			10/20/22 01:31	1
Trichlorofluoromethane (Freon 11)	ND	*+ *1	0.50		ug/L			10/20/22 01:31	1
Vinyl Chloride (VC)	ND	*1	0.30		ug/L			10/20/22 01:31	1
Trichlorotrifluoroethane	ND	*+	0.50		ug/L			10/20/22 01:31	1
Bromoethane	ND	*+	0.50		ug/L			10/20/22 01:31	1
Chloromethane (methyl chloride)	ND	*+	0.50		ug/L			10/20/22 01:31	1
Diisopropyl ether	ND	*+	3.0		ug/L			10/20/22 01:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*9.8*	*T J*	*ug/L*		*0.99*			*10/20/22 01:31*	*1*

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-24805-2

Date Collected: 10/17/22 11:04

Matrix: Water

Date Received: 10/18/22 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Acetaldehyde	2.5	T J N	ug/L		1.43	75-07-0		10/20/22 01:31	1
3-Furaldehyde	7.3	T J N	ug/L		9.77	498-60-2		10/20/22 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		10/20/22 01:31	1
4-Bromofluorobenzene (Surr)	112		70 - 130		10/20/22 01:31	1
Toluene-d8 (Surr)	85		70 - 130		10/20/22 01:31	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.041		ug/L		10/27/22 12:27	10/27/22 23:09	1
1,2-D bromo-3-Chloropropane	ND		0.010		ug/L		10/27/22 12:27	10/27/22 23:09	1
1,2-D bromoethane	ND		0.010		ug/L		10/27/22 12:27	10/27/22 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	113		60 - 140	10/27/22 12:27	10/27/22 23:09	1

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
Aldrin	ND		0.0021		ug/L		10/20/22 13:52	10/20/22 20:42	1
Chlordane (n.o.s.)	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
Dieldrin	ND		0.0021		ug/L		10/20/22 13:52	10/20/22 20:42	1
Endrin	ND		0.010		ug/L		10/20/22 13:52	10/20/22 20:42	1
gamma-BHC (Lindane)	ND		0.010		ug/L		10/20/22 13:52	10/20/22 20:42	1
Heptachlor	ND		0.010		ug/L		10/20/22 13:52	10/20/22 20:42	1
Heptachlor epoxide	ND		0.010		ug/L		10/20/22 13:52	10/20/22 20:42	1
Methoxychlor	ND		0.052		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1016	ND		0.072		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1221	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1232	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1242	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1248	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1254	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
PCB-1260	ND		0.072		ug/L		10/20/22 13:52	10/20/22 20:42	1
Polychlorinated biphenyls, Total	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1
Toxaphene	ND		0.10		ug/L		10/20/22 13:52	10/20/22 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		70 - 130	10/20/22 13:52	10/20/22 20:42	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			10/21/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
BROMOFLUOROBENZENE	92		60 - 140		10/21/22 17:46	1

Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

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

Lab Sample ID: 380-24805-1

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	EPAMCLS Limit	HI Org Limit	EPAMCL Limit	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L			200.0	200	524.2	Total/NA
1,1,2-Trichloroethane	ND		ug/L			5.000	5	524.2	Total/NA
1,1-Dichlorethylene	ND		ug/L			7.000	7	524.2	Total/NA
1,2,3-Trichloropropane	ND		ug/L			0.6000		524.2	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L			70.00	70	524.2	Total/NA
1,2-Dichloroethane	ND		ug/L			5.000	5	524.2	Total/NA
1,2-Dichloropropane	ND		ug/L			5.000	5	524.2	Total/NA
Benzene	ND		ug/L			5.000	5	524.2	Total/NA
Carbon tetrachloride	ND		ug/L			5.000	5	524.2	Total/NA
Chlorobenzene	ND		ug/L			100.0	100	524.2	Total/NA
cis-1,2-Dichloroethylene	ND		ug/L			70.00	70	524.2	Total/NA
Dichloromethane	ND		ug/L			5.000	5	524.2	Total/NA
Ethylbenzene	ND		ug/L			700.0	700	524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	ND		ug/L			600.0	600	524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	ND		ug/L			75.000	75	524.2	Total/NA
Styrene	ND	*1	ug/L			100.0	100	524.2	Total/NA
Tetrachloroethene (PCE)	ND		ug/L			5.000	5	524.2	Total/NA
Toluene	ND		ug/L			1000	1000	524.2	Total/NA
trans-1,2-Dichloroethylene	ND		ug/L			100.0	100	524.2	Total/NA
Trichloroethylene (TCE)	ND		ug/L			5.000	5	524.2	Total/NA
Vinyl Chloride (VC)	ND		ug/L			2.000	2	524.2	Total/NA
Xylenes, Total	ND		ug/L			10000	10000	524.2	Total/NA
Alachlor	ND		ug/L	2				525.2	Total/NA
Atrazine	ND		ug/L	3				525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2				525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6				525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400				525.2	Total/NA
Endrin	ND		ug/L	2				525.2	Total/NA
gamma-BHC (Lindane)	ND		ug/L	0.2				525.2	Total/NA
Heptachlor	ND		ug/L	0.4				525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2				525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1				525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50				525.2	Total/NA
Methoxychlor	ND		ug/L	40				525.2	Total/NA
Simazine	ND		ug/L	4				525.2	Total/NA
1,2,3-Trichloropropane	ND		ug/L			0.6000		504.1	Total/NA
1,2-D bromo-3-Chloropropane	ND		ug/L	0.2				504.1	Total/NA
1,2-D bromoethane	ND		ug/L	0.05				504.1	Total/NA
Alachlor	ND		ug/L	2				505	Total/NA
Endrin	ND		ug/L	2				505	Total/NA
gamma-BHC (Lindane)	ND		ug/L	0.2				505	Total/NA
Heptachlor	ND		ug/L	0.4				505	Total/NA
Heptachlor epoxide	ND		ug/L	0.2				505	Total/NA

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

Lab Sample ID: 380-24805-1

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	EPAMCLS Limit	HI Org Limit	EPAMCL Limit	Method	Prep Type
Methoxychlor	ND		ug/L	40				505	Total/NA
Polychlorinated biphenyls, Total	ND		ug/L	0.5				505	Total/NA
Toxaphene	ND		ug/L	3				505	Total/NA
Chloride	71		mg/L		250			300.0	Total/NA
Nitrate as N	0.49		mg/L	10				300.0	Total/NA
Nitrate Nitrite as N	0.49		mg/L	10				300.0	Total/NA
Sulfate	9.7		mg/L		250			300.0	Total/NA
Nitrite as N	ND		mg/L	1				300.0	Total/NA
Mercury	ND		ug/L	2				245.1	Total/NA
Total Dissolved Solids	250		mg/L		500			SM 2540C	Total/NA
Fluoride	ND		mg/L	4	2			SM 4500 F C	Total/NA

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-24805-2

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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.0	200	0.50	524.2	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.000	5	0.50	524.2	Total/NA
1,1-Dichlorethylene	ND	*+	ug/L	7.000	7	0.50	524.2	Total/NA
1,2,3-Trichloropropane	ND		ug/L	0.6000		0.50	524.2	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.00	70	0.50	524.2	Total/NA
1,2-Dichloroethane	ND		ug/L	5.000	5	0.50	524.2	Total/NA
1,2-Dichloropropane	ND		ug/L	5.000	5	0.50	524.2	Total/NA
Benzene	ND		ug/L	5.000	5	0.50	524.2	Total/NA
Carbon tetrachloride	ND		ug/L	5.000	5	0.50	524.2	Total/NA
Chlorobenzene	ND		ug/L	100.0	100	0.50	524.2	Total/NA
Dichloromethane	ND	*+	ug/L	5.000	5	0.50	524.2	Total/NA
cis-1,2-Dichloroethylene	ND		ug/L	70.00	70	0.50	524.2	Total/NA
Ethylbenzene	ND	*+	ug/L	700.0	700	0.50	524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	ND		ug/L	600.0	600	0.50	524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	ND	*+	ug/L	75.000	75	0.50	524.2	Total/NA
Styrene	ND	*+ ^+	ug/L	100.0	100	0.50	524.2	Total/NA
Tetrachloroethene (PCE)	ND		ug/L	5.000	5	0.50	524.2	Total/NA
Toluene	ND	*+	ug/L	1000	1000	0.50	524.2	Total/NA
Xylenes, Total	ND	*+	ug/L	10000	10000	0.50	524.2	Total/NA
trans-1,2-Dichloroethylene	ND	*+	ug/L	100.0	100	0.50	524.2	Total/NA
Trichloroethylene (TCE)	ND	*+	ug/L	5.000	5	0.50	524.2	Total/NA
Vinyl Chloride (VC)	ND	*1	ug/L	2.000	2	0.30	524.2	Total/NA
1,2,3-Trichloropropane	ND		ug/L	0.6000		0.041	504.1	Total/NA
1,2-D bromo-3-Chloropropane	ND		ug/L			0.010	504.1	Total/NA
1,2-D bromoethane	ND		ug/L			0.010	504.1	Total/NA
Alachlor	ND		ug/L			0.10	505	Total/NA

Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2 (Continued)

Lab Sample ID: 380-24805-2

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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
Endrin	ND		ug/L			0.010	505	Total/NA
gamma-BHC (Lindane)	ND		ug/L			0.010	505	Total/NA
Heptachlor	ND		ug/L			0.010	505	Total/NA
Heptachlor epoxide	ND		ug/L			0.010	505	Total/NA
Methoxychlor	ND		ug/L			0.052	505	Total/NA
Polychlorinated biphenyls, Total	ND		ug/L			0.10	505	Total/NA
Toxaphene	ND		ug/L			0.10	505	Total/NA

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-24805-1	AIEA GULCH WELLS PUMP 2 (	99	92	117
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	97	102	118
LCS 380-21441/2	Lab Control Sample	101	93	111
LCS 380-22279/2	Lab Control Sample	98	94	114
LCSD 380-21441/3	Lab Control Sample Dup	101	94	114
LCSD 380-22279/3	Lab Control Sample Dup	98	97	116
MB 380-21441/5	Method Blank	98	92	113
MB 380-22279/5	Method Blank	97	94	120

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)
MRL 380-21441/4	Lab Control Sample	101	93	115
MRL 380-22279/4	Lab Control Sample	98	98	118

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-24805-1	AIEA GULCH WELLS PUMP 2 (	115	92	86
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	109	112	85
LCS 380-21167/4	Lab Control Sample	98	110	104
LCS 380-21256/3	Lab Control Sample	97	111	110
LCS 380-21526/11	Lab Control Sample	98	99	105
LCSD 380-21167/5	Lab Control Sample Dup	94	105	104
LCSD 380-21256/4	Lab Control Sample Dup	96	109	117
LCSD 380-21526/12	Lab Control Sample Dup	98	104	106
MB 380-21167/8	Method Blank	94	93	78
MB 380-21256/5	Method Blank	85	102	80
MB 380-21526/15	Method Blank	109	96	88
MRL 380-21167/3	Lab Control Sample	106	100	90
MRL 380-21167/7	Lab Control Sample	102	104	89
MRL 380-21526/10	Lab Control Sample	99	94	91
MRL 380-21526/14	Lab Control Sample	108	100	96

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-24799-E-1-A DU	Duplicate	95	94	118
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97	87	115
380-24730-AK-1-A MS	Matrix Spike	98	94	109
LCS 380-21477/3-A	Lab Control Sample	97	92	112
LCSD 380-21477/4-A	Lab Control Sample Dup	98	94	112
MB 380-21477/1-A	Method Blank	96	93	109
MRL 380-21477/2-A	Lab Control Sample	97	95	109

Surrogate Legend

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

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DBPP2 (60-140)
380-23978-F-1-A MS	Matrix Spike	111
380-23978-M-2-A DU	Duplicate	115
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	111
LCS 380-21364/3-A	Lab Control Sample	113
MBL 380-21364/4-A	Method Blank	99
MRL 380-21364/1-A	Lab Control Sample	114
MRL 380-21364/2-A	Lab Control Sample	111

Surrogate Legend

DBPP = 1,2-D bromopropane (Surr)

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DBPP1 (60-140)
380-24805-2	TB: AIEA GULCH WELLS PUMI	113
380-24862-K-1-A MS	Matrix Spike	105
380-25483-K-1-A DU	Duplicate	113
LCS 380-22241/11-A	Lab Control Sample	106
MBL 380-22241/12-A	Method Blank	121
MRL 380-22241/10-A	Lab Control Sample	113
MRL 380-22241/9-A	Lab Control Sample	104

Surrogate Legend

DBPP = 1,2-D bromopropane (Surr)

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TCX1
Lab Sample ID	Client Sample ID	(70-130)
380-24762-B-1-A MS	Matrix Spike	90
380-24762-C-1-A MS	Matrix Spike	90
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	75
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	89
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	83
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	81
MB 380-21407/7-A	Method Blank	79
MRL 380-21407/2-A	Lab Control Sample	83
MRL 380-21407/3-A	Lab Control Sample	88
MRL 380-21407/4-A	Lab Control Sample	94
MRL 380-21407/5-A	Lab Control Sample	87
MRL 380-21407/6-A	Lab Control Sample	91

Surrogate Legend

TCX = Tetrachloro-m-xylene

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

Matrix: BlankMatrix — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
		Acenapht	Phenanth	CRY	NPT	PHL	PRY	TBP
Lab Sample ID	Client Sample ID	(27-133)	(43-129)	(52-144)	(25-125)	(0-130)	(36-161)	(30-130)
100921-B1	Method Blank	92	92	82	91	115	84	73
100921-BS1	Lab Control Sample	85	91	91	78	78	92	79
100921-BS2	Lab Control Sample Dup	71	93	93	68	60	97	77

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
		Acenapht	Phenanth	CRY	NPT	PHL	PRY	TBP
Lab Sample ID	Client Sample ID	(45-118)	(56-123)	(36-142)	(20-112)	(0-85)	(36-161)	(31-143)
380-24805-1	AIEA GULCH WELLS PUMP 2 (	78	94	106	69	33	97	95

Surrogate Legend

(d10-Acenaphthene) = (d10-Acenaphthene)
(d10-Phenanthrene) = (d10-Phenanthrene)
CRY = (d12-Chrysene)
NPT = (d8-Naphthalene)
PHL = (d5-Phenol)

Surrogate Summary

Client: City & County of Honolulu
Job ID: 380-24805-1
Project/Site: RED-HILL

PRY = (d12-Perylene)
TBP = (2,4,6-Tribromophenol)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(60-140)
380-24805-1	AIEA GULCH WELLS PUMP 2 (	97
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	92

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)
		BFB
Lab Sample ID	Client Sample ID	(60-140)
22J272-01M	Matrix Spike	115
22J272-01S	Matrix Spike Duplicate	117

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)
		BFB
Lab Sample ID	Client Sample ID	
22VGH7J11B	Method Blank	

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)
		BFB
Lab Sample ID	Client Sample ID	(70-130)
22VGH7J11C	LCD	105
22VGH7J11L	Lab Control Sample	110

Surrogate Legend
BFB = BROMOFLUOROBENZENE

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

Matrix: WATER — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BB
Lab Sample ID	Client Sample ID	
22DSJ049WB	Method Blank	

Surrogate Legend
BB = BROMOBENZENE

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

HEXACOSANE = HEXACOSANE

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

Matrix: WATER **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BB	XACOSA
Lab Sample ID	Client Sample ID	(60-130)	(60-130)
22DSJ049WL	Lab Control Sample	103	99
22J5J049WL	Lab Control Sample	102	94
22J8J049WL	Lab Control Sample	99	101

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)	
		BB	XACOSA
Lab Sample ID	Client Sample ID	(60-130)	(60-130)
380-24805-1	AIEA GULCH WELLS PUMP 2 (	96	100

Surrogate Legend

BB = BROMOBENZENE
HEXACOSANE = HEXACOSANE

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-21167/8
Matrix: Water
Analysis Batch: 21167

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/19/22 12:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/19/22 12:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/19/22 12:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/19/22 12:43	1
1,1-Dichloroethane	ND		0.50		ug/L			10/19/22 12:43	1
1,1-Dichlorethylene	ND		0.50		ug/L			10/19/22 12:43	1
1,1-Dichloropropene	ND		0.50		ug/L			10/19/22 12:43	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			10/19/22 12:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/19/22 12:43	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			10/19/22 12:43	1
1,2,4-Trimethy benzene	ND		0.50		ug/L			10/19/22 12:43	1
1,2-Dichloroethane	ND		0.50		ug/L			10/19/22 12:43	1
1,2-Dichloropropane	ND		0.50		ug/L			10/19/22 12:43	1
1,3,5-Trimethy benzene	ND		0.50		ug/L			10/19/22 12:43	1
1,3-Dichloropropane	ND		0.50		ug/L			10/19/22 12:43	1
2,2-Dichloropropane	ND		0.50		ug/L			10/19/22 12:43	1
2-Butanone (MEK)	ND		5.0		ug/L			10/19/22 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/19/22 12:43	1
Acetone	ND		500		ug/L			10/19/22 12:43	1
Benzene	ND		0.50		ug/L			10/19/22 12:43	1
Bromobenzene	ND		0.50		ug/L			10/19/22 12:43	1
Bromochloromethane	ND		0.50		ug/L			10/19/22 12:43	1
Bromodichloromethane	ND		0.50		ug/L			10/19/22 12:43	1
Bromoform	ND		0.50		ug/L			10/19/22 12:43	1
Bromomethane (Methyl Bromide)	ND		0.50		ug/L			10/19/22 12:43	1
Carbon disulfide	ND		0.50		ug/L			10/19/22 12:43	1
Carbon tetrachloride	ND		0.50		ug/L			10/19/22 12:43	1
Chlorobenzene	ND		0.50		ug/L			10/19/22 12:43	1
Chlorodibromomethane	ND		0.50		ug/L			10/19/22 12:43	1
Chloroethane	ND		0.50		ug/L			10/19/22 12:43	1
Chloroform (Trichloromethane)	ND		0.50		ug/L			10/19/22 12:43	1
cis-1,2-Dichloroethylene	ND		0.50		ug/L			10/19/22 12:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/19/22 12:43	1
Dibromomethane	ND		0.50		ug/L			10/19/22 12:43	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/19/22 12:43	1
Dichloromethane	ND		0.50		ug/L			10/19/22 12:43	1
Ethylbenzene	ND		0.50		ug/L			10/19/22 12:43	1
Hexachlorobutadiene	ND		0.50		ug/L			10/19/22 12:43	1
Isopropy benzene	ND		0.50		ug/L			10/19/22 12:43	1
m,p-Xylenes	ND		0.50		ug/L			10/19/22 12:43	1
m-Dichlorobenzene (1,3-DCB)	ND		0.50		ug/L			10/19/22 12:43	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50		ug/L			10/19/22 12:43	1
Naphthalene	ND		0.50		ug/L			10/19/22 12:43	1
n-Butylbenzene	ND		0.50		ug/L			10/19/22 12:43	1
N-Propylbenzene	ND		0.50		ug/L			10/19/22 12:43	1
o-Chlorotoluene	ND		0.50		ug/L			10/19/22 12:43	1
o-Dichlorobenzene (1,2-DCB)	ND		0.50		ug/L			10/19/22 12:43	1
o-Xylene	ND		0.50		ug/L			10/19/22 12:43	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-21167/8
Matrix: Water
Analysis Batch: 21167

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		0.50		ug/L			10/19/22 12:43	1
p-Dichlorobenzene (1,4-DCB)	ND		0.50		ug/L			10/19/22 12:43	1
p-Isopropyltoluene	ND		0.50		ug/L			10/19/22 12:43	1
sec-Butylbenzene	ND		0.50		ug/L			10/19/22 12:43	1
Styrene	ND		0.50		ug/L			10/19/22 12:43	1
Tert-amyl methyl ether	ND		3.0		ug/L			10/19/22 12:43	1
1,3-Dichloropropene, Total	ND		0.50		ug/L			10/19/22 12:43	1
Tert-butyl ethyl ether	ND		3.0		ug/L			10/19/22 12:43	1
tert-Butylbenzene	ND		0.50		ug/L			10/19/22 12:43	1
Tetrachloroethene (PCE)	ND		0.50		ug/L			10/19/22 12:43	1
Toluene	ND		0.50		ug/L			10/19/22 12:43	1
trans-1,2-Dichloroethylene	ND		0.50		ug/L			10/19/22 12:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/19/22 12:43	1
Trichloroethylene (TCE)	ND		0.50		ug/L			10/19/22 12:43	1
Bromoethane	ND		0.50		ug/L			10/19/22 12:43	1
Trichlorofluoromethane (Freon 11)	ND		0.50		ug/L			10/19/22 12:43	1
Chloromethane (methyl chloride)	ND		0.50		ug/L			10/19/22 12:43	1
Trichlorotrifluoroethane	ND		0.50		ug/L			10/19/22 12:43	1
Diisopropyl ether	ND		3.0		ug/L			10/19/22 12:43	1
Vinyl Chloride (VC)	ND		0.30		ug/L			10/19/22 12:43	1
Xylenes, Total	ND		0.50		ug/L			10/19/22 12:43	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/19/22 12:43*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/19/22 12:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/19/22 12:43*	*1*
Toluene-d8 (Surr)	*78*		*70 - 130*		*10/19/22 12:43*	*1*

Lab Sample ID: LCS 380-21167/4
Matrix: Water
Analysis Batch: 21167

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1,2-Tetrachloroethane			5.00	4.97		ug/L		99	70 - 130		
1,1,1-Trichloroethane			5.00	4.82		ug/L		96	70 - 130		
1,1,2,2-Tetrachloroethane			5.00	5.14		ug/L		103	70 - 130		
1,1,2-Trichloroethane			5.00	4.90		ug/L		98	70 - 130		
1,1-Dichloroethane			5.00	5.05		ug/L		101	70 - 130		
1,1-Dichlorethylene			5.00	5.05		ug/L		101	70 - 130		
1,1-Dichloropropene			5.00	4.93		ug/L		99	70 - 130		
1,2,3-Trichlorobenzene			5.00	4.29		ug/L		86	70 - 130		
1,2,3-Trichloropropane			5.00	5.09		ug/L		102	70 - 130		
1,2,4-Trichlorobenzene			5.00	4.26		ug/L		85	70 - 130		
1,2,4-Trimethy benzene			5.00	6.05		ug/L		121	70 - 130		
1,2-Dichloroethane			5.00	4.97		ug/L		99	70 - 130		
1,2-Dichloropropane			5.00	5.03		ug/L		101	70 - 130		

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-21167/4
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethy benzene	5.00	5.77		ug/L		115	70 - 130
1,3-Dichloropropane	5.00	4.88		ug/L		98	70 - 130
2,2-Dichloropropane	5.00	5.72		ug/L		114	70 - 130
2-Butanone (MEK)	50.0	51.7		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	50.3		ug/L		101	70 - 130
Acetone	50.0	51.8	J	ug/L		104	70 - 130
Benzene	5.00	5.13		ug/L		103	70 - 130
Bromobenzene	5.00	5.39		ug/L		108	70 - 130
Bromochloromethane	5.00	4.94		ug/L		99	70 - 130
Bromodichloromethane	5.00	4.94		ug/L		99	70 - 130
Bromoform	5.00	4.95		ug/L		99	70 - 130
Bromomethane (Methyl Bromide)	5.00	5.14		ug/L		103	70 - 130
Carbon disulfide	5.00	5.77		ug/L		115	70 - 130
Carbon tetrachloride	5.00	5.00		ug/L		100	70 - 130
Chlorobenzene	5.00	4.90		ug/L		98	70 - 130
Chlorodibromomethane	5.00	5.04		ug/L		101	70 - 130
cis-1,3-Dichloropropene	5.00	4.48		ug/L		90	70 - 130
Dichloromethane	5.00	5.01		ug/L		100	70 - 130
Ethylbenzene	5.00	5.04		ug/L		101	70 - 130
Hexachlorobutadiene	5.00	5.17		ug/L		103	70 - 130
Isopropy benzene	5.00	5.41		ug/L		108	70 - 130
m,p-Xylenes	10.0	11.0		ug/L		110	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	5.59		ug/L		112	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.29		ug/L		86	70 - 130
Naphthalene	5.00	3.78		ug/L		76	70 - 130
n-Butylbenzene	5.00	4.92		ug/L		98	70 - 130
N-Propylbenzene	5.00	5.20		ug/L		104	70 - 130
o-Chlorotoluene	5.00	5.69		ug/L		114	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	4.97		ug/L		99	70 - 130
o-Xylene	5.00	5.15		ug/L		103	70 - 130
p-Chlorotoluene	5.00	5.59		ug/L		112	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	5.87		ug/L		117	70 - 130
p-Isopropyltoluene	5.00	5.83		ug/L		117	70 - 130
sec-Butylbenzene	5.00	5.78		ug/L		116	70 - 130
Styrene	5.00	5.38		ug/L		108	70 - 130
Tert-amyl methyl ether	5.00	4.53		ug/L		91	70 - 130
1,3-Dichloropropene, Total	10.0	8.78		ug/L		88	70 - 130
Tert-butyl ethyl ether	5.00	4.65		ug/L		93	70 - 130
tert-Butylbenzene	5.00	5.59		ug/L		112	70 - 130
Tetrachloroethene (PCE)	5.00	5.00		ug/L		100	70 - 130
Toluene	5.00	5.31		ug/L		106	70 - 130
trans-1,2-Dichloroethylene	5.00	4.97		ug/L		99	70 - 130
trans-1,3-Dichloropropene	5.00	4.30		ug/L		86	70 - 130
Trichloroethylene (TCE)	5.00	4.93		ug/L		99	70 - 130
Bromoethane	5.00	5.36		ug/L		107	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	5.42		ug/L		108	70 - 130
Trichlorotrifluoroethane	5.00	5.42		ug/L		108	70 - 130
Diisopropyl ether	5.00	4.62		ug/L		92	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-21167/4
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl Chloride (VC)	5.00	5.15		ug/L		103	70 - 130
Xylenes, Total	15.0	16.2		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 380-21167/5
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.31		ug/L		106	70 - 130	7	20
1,1,1-Trichloroethane	5.00	4.73		ug/L		95	70 - 130	2	20
1,1,2,2-Tetrachloroethane	5.00	5.32		ug/L		106	70 - 130	3	20
1,1,2-Trichloroethane	5.00	5.09		ug/L		102	70 - 130	4	20
1,1-Dichloroethane	5.00	5.59		ug/L		112	70 - 130	10	20
1,1-Dichlorethylene	5.00	5.69		ug/L		114	70 - 130	12	20
1,1-Dichloropropene	5.00	5.63		ug/L		113	70 - 130	13	20
1,2,3-Trichlorobenzene	5.00	4.84		ug/L		97	70 - 130	12	20
1,2,3-Trichloropropane	5.00	5.42		ug/L		108	70 - 130	6	20
1,2,4-Trichlorobenzene	5.00	4.70		ug/L		94	70 - 130	10	20
1,2,4-Trimethy benzene	5.00	6.26		ug/L		125	70 - 130	3	20
1,2-Dichloroethane	5.00	5.15		ug/L		103	70 - 130	4	20
1,2-Dichloropropane	5.00	5.22		ug/L		104	70 - 130	4	20
1,3,5-Trimethy benzene	5.00	6.35		ug/L		127	70 - 130	10	20
1,3-Dichloropropane	5.00	5.13		ug/L		103	70 - 130	5	20
2,2-Dichloropropane	5.00	5.57		ug/L		111	70 - 130	3	20
2-Butanone (MEK)	50.0	39.7	*1	ug/L		79	70 - 130	26	20
4-Methyl-2-pentanone (MIBK)	50.0	52.1		ug/L		104	70 - 130	4	20
Acetone	50.0	56.0	J	ug/L		112	70 - 130	8	20
Benzene	5.00	5.47		ug/L		109	70 - 130	6	20
Bromobenzene	5.00	5.74		ug/L		115	70 - 130	6	20
Bromochloromethane	5.00	4.26		ug/L		85	70 - 130	15	20
Bromodichloromethane	5.00	5.19		ug/L		104	70 - 130	5	20
Bromoform	5.00	5.25		ug/L		105	70 - 130	6	20
Bromomethane (Methyl Bromide)	5.00	5.40		ug/L		108	70 - 130	5	20
Carbon disulfide	5.00	6.45		ug/L		129	70 - 130	11	20
Carbon tetrachloride	5.00	5.26		ug/L		105	70 - 130	5	20
Chlorobenzene	5.00	5.22		ug/L		104	70 - 130	6	20
Chlorodibromomethane	5.00	5.00		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	5.00	4.57		ug/L		91	70 - 130	2	20
Dichloromethane	5.00	5.59		ug/L		112	70 - 130	11	20
Ethylbenzene	5.00	5.32		ug/L		106	70 - 130	5	20
Hexachlorobutadiene	5.00	5.52		ug/L		110	70 - 130	7	20
Isopropy benzene	5.00	5.79		ug/L		116	70 - 130	7	20
m,p-Xylenes	10.0	11.7		ug/L		117	70 - 130	6	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-21167/5
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Dichlorobenzene (1,3-DCB)	5.00	5.85		ug/L		117	70 - 130	4	20
Methyl-tert-butyl Ether (MTBE)	5.00	4.64		ug/L		93	70 - 130	8	20
Naphthalene	5.00	4.29		ug/L		86	70 - 130	13	20
n-Butylbenzene	5.00	5.44		ug/L		109	70 - 130	10	20
N-Propylbenzene	5.00	5.67		ug/L		113	70 - 130	9	20
o-Chlorotoluene	5.00	6.09		ug/L		122	70 - 130	7	20
o-Dichlorobenzene (1,2-DCB)	5.00	5.34		ug/L		107	70 - 130	7	20
o-Xylene	5.00	5.31		ug/L		106	70 - 130	3	20
p-Chlorotoluene	5.00	5.94		ug/L		119	70 - 130	6	20
p-Dichlorobenzene (1,4-DCB)	5.00	6.26		ug/L		125	70 - 130	6	20
p-Isopropyltoluene	5.00	6.32		ug/L		126	70 - 130	8	20
sec-Butylbenzene	5.00	6.26		ug/L		125	70 - 130	8	20
Styrene	5.00	5.64		ug/L		113	70 - 130	5	20
Tert-amyl methyl ether	5.00	4.75		ug/L		95	70 - 130	5	20
1,3-Dichloropropene, Total	10.0	8.96		ug/L		90	70 - 130	2	20
Tert-butyl ethyl ether	5.00	5.08		ug/L		102	70 - 130	9	20
tert-Butylbenzene	5.00	6.01		ug/L		120	70 - 130	7	20
Tetrachloroethene (PCE)	5.00	5.32		ug/L		106	70 - 130	6	20
Toluene	5.00	5.41		ug/L		108	70 - 130	2	20
trans-1,2-Dichloroethylene	5.00	5.80		ug/L		116	70 - 130	15	20
trans-1,3-Dichloropropene	5.00	4.39		ug/L		88	70 - 130	2	20
Trichloroethylene (TCE)	5.00	5.30		ug/L		106	70 - 130	7	20
Bromoethane	5.00	5.79		ug/L		116	70 - 130	8	20
Trichlorofluoromethane (Freon 11)	5.00	5.06		ug/L		101	70 - 130	7	20
Trichlorotrifluoroethane	5.00	5.97		ug/L		119	70 - 130	10	20
Diisopropyl ether	5.00	5.32		ug/L		106	70 - 130	14	20
Vinyl Chloride (VC)	5.00	5.44		ug/L		109	70 - 130	6	20
Xylenes, Total	15.0	17.0		ug/L		113	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MRL 380-21167/3
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.500	0.405	J	ug/L		81	50 - 150
Vinyl Chloride (VC)	0.250	0.286	J	ug/L		115	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*90*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-21167/7
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.500	0.503		ug/L		101	50 - 150
1,1,1-Trichloroethane	0.500	0.466	J	ug/L		93	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.607		ug/L		121	50 - 150
1,1,2-Trichloroethane	0.500	0.507		ug/L		101	50 - 150
1,1-Dichloroethane	0.500	0.623		ug/L		125	50 - 150
1,1-Dichlorethylene	0.500	0.682		ug/L		136	50 - 150
1,1-Dichloropropene	0.500	0.509		ug/L		102	50 - 150
1,2,3-Trichlorobenzene	0.500	0.510		ug/L		102	50 - 150
1,2,3-Trichloropropane	0.500	0.658		ug/L		132	50 - 150
1,2,4-Trichlorobenzene	0.500	0.509		ug/L		102	50 - 150
1,2,4-Trimethy benzene	0.500	0.439	J	ug/L		88	50 - 150
1,2-Dichloroethane	0.500	0.548		ug/L		110	50 - 150
1,2-Dichloropropane	0.500	0.550		ug/L		110	50 - 150
1,3,5-Trimethy benzene	0.500	0.444	J	ug/L		89	50 - 150
1,3-Dichloropropane	0.500	0.482	J	ug/L		96	50 - 150
2,2-Dichloropropane	0.500	0.591		ug/L		118	50 - 150
2-Butanone (MEK)	5.00	4.24	J	ug/L		85	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	3.79	J	ug/L		76	50 - 150
Acetone	5.00	5.92	J	ug/L		118	50 - 150
Benzene	0.500	0.613		ug/L		123	50 - 150
Bromobenzene	0.500	0.570		ug/L		114	50 - 150
Bromochloromethane	0.500	0.488	J	ug/L		98	50 - 150
Bromodichloromethane	0.500	0.512		ug/L		102	50 - 150
Bromoform	0.500	0.545		ug/L		109	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.743		ug/L		149	50 - 150
Carbon disulfide	0.500	0.644		ug/L		129	50 - 150
Carbon tetrachloride	0.500	0.516		ug/L		103	50 - 150
Chlorobenzene	0.500	0.472	J	ug/L		94	50 - 150
Chlorodibromomethane	0.500	0.439	J	ug/L		88	50 - 150
cis-1,3-Dichloropropene	0.500	0.427	J	ug/L		85	50 - 150
Dichloromethane	0.500	0.743		ug/L		149	50 - 150
Ethylbenzene	0.500	0.441	J	ug/L		88	50 - 150
Hexachlorobutadiene	0.500	0.562		ug/L		112	50 - 150
Isopropy benzene	0.500	0.494	J	ug/L		99	50 - 150
m,p-Xylenes	1.00	0.827		ug/L		83	50 - 150
m-Dichlorobenzene (1,3-DCB)	0.500	0.575		ug/L		115	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.524		ug/L		105	50 - 150
Naphthalene	0.500	0.383	J	ug/L		77	50 - 150
n-Butylbenzene	0.500	0.454	J	ug/L		91	50 - 150
N-Propylbenzene	0.500	0.413	J	ug/L		83	50 - 150
o-Chlorotoluene	0.500	0.551		ug/L		110	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.545		ug/L		109	50 - 150
o-Xylene	0.500	0.428	J	ug/L		86	50 - 150
p-Chlorotoluene	0.500	0.411	J	ug/L		82	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.578		ug/L		116	50 - 150
p-Isopropyltoluene	0.500	0.465	J	ug/L		93	50 - 150
sec-Butylbenzene	0.500	0.475	J	ug/L		95	50 - 150
Styrene	0.500	0.373	J	ug/L		75	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-21167/7
Matrix: Water
Analysis Batch: 21167

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	0.500	0.465	J	ug/L		93	50 - 150
1,3-Dichloropropene, Total	1.00	0.822		ug/L		82	50 - 150
Tert-butyl ethyl ether	0.500	0.534	J	ug/L		107	50 - 150
tert-Butylbenzene	0.500	0.484	J	ug/L		97	50 - 150
Tetrachloroethene (PCE)	0.500	0.503		ug/L		101	50 - 150
Toluene	0.500	0.486	J	ug/L		97	50 - 150
trans-1,2-Dichloroethylene	0.500	0.606		ug/L		121	50 - 150
trans-1,3-Dichloropropene	0.500	0.395	J	ug/L		79	50 - 150
Trichloroethylene (TCE)	0.500	0.553		ug/L		111	50 - 150
Bromoethane	0.500	0.634		ug/L		127	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.593		ug/L		119	50 - 150
Trichlorotrifluoroethane	0.500	0.617		ug/L		123	50 - 150
Diisopropyl ether	0.500	0.530	J	ug/L		106	50 - 150
Vinyl Chloride (VC)	0.500	0.714		ug/L		143	50 - 150
Xylenes, Total	1.50	1.26		ug/L		84	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: MB 380-21256/5
Matrix: Water
Analysis Batch: 21256

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L			10/19/22 22:36	1
1,1,1-Trichloroethane	ND		0.50	ug/L			10/19/22 22:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			10/19/22 22:36	1
1,1,2-Trichloroethane	ND		0.50	ug/L			10/19/22 22:36	1
1,1-Dichloroethane	ND		0.50	ug/L			10/19/22 22:36	1
1,1-Dichlorethylene	ND		0.50	ug/L			10/19/22 22:36	1
1,1-Dichloropropene	ND		0.50	ug/L			10/19/22 22:36	1
1,2,3-Trichlorobenzene	0.665	B	0.50	ug/L			10/19/22 22:36	1
1,2,3-Trichloropropane	ND		0.50	ug/L			10/19/22 22:36	1
1,2,4-Trichlorobenzene	ND		0.50	ug/L			10/19/22 22:36	1
1,2,4-Trimethy benzene	ND		0.50	ug/L			10/19/22 22:36	1
1,2-Dichloroethane	ND		0.50	ug/L			10/19/22 22:36	1
1,2-Dichloropropane	ND		0.50	ug/L			10/19/22 22:36	1
1,3,5-Trimethy benzene	ND		0.50	ug/L			10/19/22 22:36	1
1,3-Dichloropropane	ND		0.50	ug/L			10/19/22 22:36	1
2,2-Dichloropropane	ND		0.50	ug/L			10/19/22 22:36	1
2-Butanone (MEK)	ND		5.0	ug/L			10/19/22 22:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	ug/L			10/19/22 22:36	1
Acetone	ND		500	ug/L			10/19/22 22:36	1
Benzene	ND		0.50	ug/L			10/19/22 22:36	1
Bromobenzene	ND		0.50	ug/L			10/19/22 22:36	1
Bromochloromethane	ND		0.50	ug/L			10/19/22 22:36	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-21256/5
Matrix: Water
Analysis Batch: 21256

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50		ug/L			10/19/22 22:36	1
Bromoform	ND		0.50		ug/L			10/19/22 22:36	1
Bromomethane (Methyl Bromide)	ND		0.50		ug/L			10/19/22 22:36	1
Carbon disulfide	ND		0.50		ug/L			10/19/22 22:36	1
Carbon tetrachloride	ND		0.50		ug/L			10/19/22 22:36	1
Chlorobenzene	ND		0.50		ug/L			10/19/22 22:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/19/22 22:36	1
Chloroethane	ND		0.50		ug/L			10/19/22 22:36	1
Chloroform (Trichloromethane)	ND		0.50		ug/L			10/19/22 22:36	1
cis-1,2-Dichloroethylene	ND		0.50		ug/L			10/19/22 22:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/19/22 22:36	1
Dibromomethane	ND		0.50		ug/L			10/19/22 22:36	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/19/22 22:36	1
Dichloromethane	ND		0.50		ug/L			10/19/22 22:36	1
Ethylbenzene	ND		0.50		ug/L			10/19/22 22:36	1
Hexachlorobutadiene	ND		0.50		ug/L			10/19/22 22:36	1
Isopropy benzene	ND		0.50		ug/L			10/19/22 22:36	1
m,p-Xylenes	ND		0.50		ug/L			10/19/22 22:36	1
m-Dichlorobenzene (1,3-DCB)	ND		0.50		ug/L			10/19/22 22:36	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50		ug/L			10/19/22 22:36	1
Naphthalene	0.554	B	0.50		ug/L			10/19/22 22:36	1
n-Butylbenzene	ND		0.50		ug/L			10/19/22 22:36	1
N-Propylbenzene	ND		0.50		ug/L			10/19/22 22:36	1
o-Chlorotoluene	ND		0.50		ug/L			10/19/22 22:36	1
o-Dichlorobenzene (1,2-DCB)	ND		0.50		ug/L			10/19/22 22:36	1
o-Xylene	ND		0.50		ug/L			10/19/22 22:36	1
p-Chlorotoluene	ND		0.50		ug/L			10/19/22 22:36	1
p-Dichlorobenzene (1,4-DCB)	ND		0.50		ug/L			10/19/22 22:36	1
p-Isopropyltoluene	ND		0.50		ug/L			10/19/22 22:36	1
sec-Butylbenzene	ND		0.50		ug/L			10/19/22 22:36	1
Styrene	ND		0.50		ug/L			10/19/22 22:36	1
Tert-amyl methyl ether	ND		3.0		ug/L			10/19/22 22:36	1
1,3-Dichloropropene, Total	ND		0.50		ug/L			10/19/22 22:36	1
Tert-butyl ethyl ether	ND		3.0		ug/L			10/19/22 22:36	1
tert-Butylbenzene	ND		0.50		ug/L			10/19/22 22:36	1
Tetrachloroethene (PCE)	ND		0.50		ug/L			10/19/22 22:36	1
Toluene	ND		0.50		ug/L			10/19/22 22:36	1
trans-1,2-Dichloroethylene	ND		0.50		ug/L			10/19/22 22:36	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/19/22 22:36	1
Trichloroethylene (TCE)	ND		0.50		ug/L			10/19/22 22:36	1
Bromoethane	ND		0.50		ug/L			10/19/22 22:36	1
Trichlorofluoromethane (Freon 11)	ND		0.50		ug/L			10/19/22 22:36	1
Chloromethane (methyl chloride)	ND		0.50		ug/L			10/19/22 22:36	1
Trichlorotrifluoroethane	ND		0.50		ug/L			10/19/22 22:36	1
Diisopropyl ether	ND		3.0		ug/L			10/19/22 22:36	1
Vinyl Chloride (VC)	ND		0.30		ug/L			10/19/22 22:36	1
Xylenes, Total	ND		0.50		ug/L			10/19/22 22:36	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-21256/5
Matrix: Water
Analysis Batch: 21256

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/19/22 22:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		10/19/22 22:36	1
4-Bromofluorobenzene (Surr)	102		70 - 130		10/19/22 22:36	1
Toluene-d8 (Surr)	80		70 - 130		10/19/22 22:36	1

Lab Sample ID: LCS 380-21256/3
Matrix: Water
Analysis Batch: 21256

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	6.31		ug/L		126	70 - 130
1,1,1-Trichloroethane	5.00	5.71		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	5.00	6.38		ug/L		128	70 - 130
1,1,2-Trichloroethane	5.00	6.33		ug/L		127	70 - 130
1,1-Dichloroethane	5.00	7.63	*+	ug/L		153	70 - 130
1,1-Dichlorethylene	5.00	8.10	*+	ug/L		162	70 - 130
1,1-Dichloropropene	5.00	6.13		ug/L		123	70 - 130
1,2,3-Trichlorobenzene	5.00	5.50		ug/L		110	70 - 130
1,2,3-Trichloropropane	5.00	5.98		ug/L		120	70 - 130
1,2,4-Trichlorobenzene	5.00	5.11		ug/L		102	70 - 130
1,2,4-Trimethy benzene	5.00	7.15	*+	ug/L		143	70 - 130
1,2-Dichloroethane	5.00	5.75		ug/L		115	70 - 130
1,2-Dichloropropane	5.00	6.06		ug/L		121	70 - 130
1,3,5-Trimethy benzene	5.00	7.04	*+	ug/L		141	70 - 130
1,3-Dichloropropane	5.00	6.09		ug/L		122	70 - 130
2,2-Dichloropropane	5.00	4.75		ug/L		95	70 - 130
2-Butanone (MEK)	50.0	47.8		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	64.2		ug/L		128	70 - 130
Acetone	50.0	58.6	J	ug/L		117	70 - 130
Benzene	5.00	5.81		ug/L		116	70 - 130
Bromobenzene	5.00	6.67	*+	ug/L		133	70 - 130
Bromochloromethane	5.00	5.69		ug/L		114	70 - 130
Bromodichloromethane	5.00	5.66		ug/L		113	70 - 130
Bromoform	5.00	4.79		ug/L		96	70 - 130
Bromomethane (Methyl Bromide)	5.00	7.62	*+	ug/L		152	70 - 130
Carbon disulfide	5.00	8.47	*+	ug/L		169	70 - 130
Carbon tetrachloride	5.00	6.26		ug/L		125	70 - 130
Chlorobenzene	5.00	6.33		ug/L		127	70 - 130
Chlorodibromomethane	5.00	5.61		ug/L		112	70 - 130
cis-1,3-Dichloropropene	5.00	4.64		ug/L		93	70 - 130
Dichloromethane	5.00	7.63	*+	ug/L		153	70 - 130
Ethylbenzene	5.00	6.69	*+	ug/L		134	70 - 130
Hexachlorobutadiene	5.00	6.88	*+	ug/L		138	70 - 130
Isopropy benzene	5.00	6.48		ug/L		130	70 - 130
m,p-Xylenes	10.0	14.6	*+	ug/L		146	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	6.89	*+	ug/L		138	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-21256/3
Matrix: Water
Analysis Batch: 21256

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl-tert-butyl Ether (MTBE)	5.00	5.72		ug/L		114	70 - 130
Naphthalene	5.00	5.20		ug/L		104	70 - 130
n-Butylbenzene	5.00	5.80		ug/L		116	70 - 130
N-Propylbenzene	5.00	7.19	*+	ug/L		144	70 - 130
o-Chlorotoluene	5.00	6.92	*+	ug/L		138	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	5.96		ug/L		119	70 - 130
o-Xylene	5.00	6.79	*+	ug/L		136	70 - 130
p-Chlorotoluene	5.00	7.49	*+	ug/L		150	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	7.42	*+	ug/L		148	70 - 130
p-Isopropyltoluene	5.00	7.00	*+	ug/L		140	70 - 130
sec-Butylbenzene	5.00	7.07	*+	ug/L		141	70 - 130
Styrene	5.00	7.30	*+	ug/L		146	70 - 130
Tert-amyl methyl ether	5.00	5.00		ug/L		100	70 - 130
1,3-Dichloropropene, Total	10.0	8.98		ug/L		90	70 - 130
Tert-butyl ethyl ether	5.00	6.34		ug/L		127	70 - 130
tert-Butylbenzene	5.00	6.73	*+	ug/L		135	70 - 130
Tetrachloroethene (PCE)	5.00	6.49		ug/L		130	70 - 130
Toluene	5.00	6.93	*+	ug/L		139	70 - 130
trans-1,2-Dichloroethylene	5.00	7.96	*+	ug/L		159	70 - 130
trans-1,3-Dichloropropene	5.00	4.34		ug/L		87	70 - 130
Trichloroethylene (TCE)	5.00	6.78	*+	ug/L		136	70 - 130
Bromoethane	5.00	7.98	*+	ug/L		160	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	7.51	*+	ug/L		150	70 - 130
Trichlorotrifluoroethane	5.00	7.55	*+	ug/L		151	70 - 130
Diisopropyl ether	5.00	6.98	*+	ug/L		140	70 - 130
Vinyl Chloride (VC)	5.00	6.49		ug/L		130	70 - 130
Xylenes, Total	15.0	21.4	*+	ug/L		143	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 380-21256/4
Matrix: Water
Analysis Batch: 21256

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.82		ug/L		116	70 - 130	8	20
1,1,1-Trichloroethane	5.00	5.28		ug/L		106	70 - 130	8	20
1,1,2,2-Tetrachloroethane	5.00	5.61		ug/L		112	70 - 130	13	20
1,1,2-Trichloroethane	5.00	5.99		ug/L		120	70 - 130	5	20
1,1-Dichloroethane	5.00	6.69	*+	ug/L		134	70 - 130	13	20
1,1-Dichlorethylene	5.00	6.79	*+	ug/L		136	70 - 130	18	20
1,1-Dichloropropene	5.00	5.55		ug/L		111	70 - 130	10	20
1,2,3-Trichlorobenzene	5.00	5.01		ug/L		100	70 - 130	9	20
1,2,3-Trichloropropane	5.00	5.51		ug/L		110	70 - 130	8	20
1,2,4-Trichlorobenzene	5.00	4.79		ug/L		96	70 - 130	7	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-21256/4
Matrix: Water
Analysis Batch: 21256

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trimethy benzene	5.00	6.39		ug/L		128	70 - 130	11	20
1,2-Dichloroethane	5.00	5.36		ug/L		107	70 - 130	7	20
1,2-Dichloropropane	5.00	5.81		ug/L		116	70 - 130	4	20
1,3,5-Trimethy benzene	5.00	6.13		ug/L		123	70 - 130	14	20
1,3-Dichloropropane	5.00	5.89		ug/L		118	70 - 130	3	20
2,2-Dichloropropane	5.00	4.52		ug/L		90	70 - 130	5	20
2-Butanone (MEK)	50.0	49.8		ug/L		100	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	50.0	62.8		ug/L		126	70 - 130	2	20
Acetone	50.0	64.6	J	ug/L		129	70 - 130	10	20
Benzene	5.00	5.20		ug/L		104	70 - 130	11	20
Bromobenzene	5.00	5.98		ug/L		120	70 - 130	11	20
Bromochloromethane	5.00	5.10		ug/L		102	70 - 130	11	20
Bromodichloromethane	5.00	5.56		ug/L		111	70 - 130	2	20
Bromoform	5.00	4.60		ug/L		92	70 - 130	4	20
Bromomethane (Methyl Bromide)	5.00	6.44		ug/L		129	70 - 130	17	20
Carbon disulfide	5.00	7.57	*+	ug/L		151	70 - 130	11	20
Carbon tetrachloride	5.00	5.62		ug/L		112	70 - 130	11	20
Chlorobenzene	5.00	5.91		ug/L		118	70 - 130	7	20
Chlorodibromomethane	5.00	5.32		ug/L		106	70 - 130	5	20
cis-1,3-Dichloropropene	5.00	4.65		ug/L		93	70 - 130	0	20
Dichloromethane	5.00	6.43		ug/L		129	70 - 130	17	20
Ethylbenzene	5.00	5.96		ug/L		119	70 - 130	12	20
Hexachlorobutadiene	5.00	6.06		ug/L		121	70 - 130	13	20
Isopropy benzene	5.00	5.88		ug/L		118	70 - 130	10	20
m,p-Xylenes	10.0	13.1	*+	ug/L		131	70 - 130	11	20
m-Dichlorobenzene (1,3-DCB)	5.00	6.16		ug/L		123	70 - 130	11	20
Methyl-tert-butyl Ether (MTBE)	5.00	5.29		ug/L		106	70 - 130	8	20
Naphthalene	5.00	4.46		ug/L		89	70 - 130	15	20
n-Butylbenzene	5.00	5.29		ug/L		106	70 - 130	9	20
N-Propylbenzene	5.00	6.25		ug/L		125	70 - 130	14	20
o-Chlorotoluene	5.00	6.20		ug/L		124	70 - 130	11	20
o-Dichlorobenzene (1,2-DCB)	5.00	5.41		ug/L		108	70 - 130	10	20
o-Xylene	5.00	6.07		ug/L		121	70 - 130	11	20
p-Chlorotoluene	5.00	6.63	*+	ug/L		133	70 - 130	12	20
p-Dichlorobenzene (1,4-DCB)	5.00	6.40		ug/L		128	70 - 130	15	20
p-Isopropyltoluene	5.00	6.20		ug/L		124	70 - 130	12	20
sec-Butylbenzene	5.00	6.32		ug/L		126	70 - 130	11	20
Styrene	5.00	6.39		ug/L		128	70 - 130	13	20
Tert-amyl methyl ether	5.00	4.63		ug/L		93	70 - 130	8	20
1,3-Dichloropropene, Total	10.0	8.89		ug/L		89	70 - 130	1	20
Tert-butyl ethyl ether	5.00	5.82		ug/L		116	70 - 130	9	20
tert-Butylbenzene	5.00	6.02		ug/L		120	70 - 130	11	20
Tetrachloroethene (PCE)	5.00	5.74		ug/L		115	70 - 130	12	20
Toluene	5.00	6.20		ug/L		124	70 - 130	11	20
trans-1,2-Dichloroethylene	5.00	6.76	*+	ug/L		135	70 - 130	16	20
trans-1,3-Dichloropropene	5.00	4.24		ug/L		85	70 - 130	2	20
Trichloroethylene (TCE)	5.00	6.12		ug/L		122	70 - 130	10	20
Bromoethane	5.00	6.96	*+	ug/L		139	70 - 130	14	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-21256/4
Matrix: Water
Analysis Batch: 21256

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichlorofluoromethane (Freon 11)			5.00	5.40	*1	ug/L		108	70 - 130	33	20
Trichlorotrifluoroethane			5.00	6.62	*+	ug/L		132	70 - 130	13	20
Diisopropyl ether			5.00	6.17		ug/L		123	70 - 130	12	20
Vinyl Chloride (VC)			5.00	5.82	*1	ug/L		116	70 - 130	61	20
Xylenes, Total			15.0	19.2		ug/L		128	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*117*		*70 - 130*

Lab Sample ID: MB 380-21526/15
Matrix: Water
Analysis Batch: 21526

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/21/22 15:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/21/22 15:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/22 15:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/21/22 15:33	1
1,1-Dichloroethane	ND		0.50		ug/L			10/21/22 15:33	1
1,1-Dichlorethylene	ND		0.50		ug/L			10/21/22 15:33	1
1,1-Dichloropropene	ND		0.50		ug/L			10/21/22 15:33	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			10/21/22 15:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/21/22 15:33	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			10/21/22 15:33	1
1,2,4-Trimethy benzene	ND		0.50		ug/L			10/21/22 15:33	1
1,2-Dichloroethane	ND		0.50		ug/L			10/21/22 15:33	1
1,2-Dichloropropane	ND		0.50		ug/L			10/21/22 15:33	1
1,3,5-Trimethy benzene	ND		0.50		ug/L			10/21/22 15:33	1
1,3-Dichloropropane	ND		0.50		ug/L			10/21/22 15:33	1
2,2-Dichloropropane	ND		0.50		ug/L			10/21/22 15:33	1
2-Butanone (MEK)	ND		5.0		ug/L			10/21/22 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/21/22 15:33	1
Acetone	ND		500		ug/L			10/21/22 15:33	1
Benzene	ND		0.50		ug/L			10/21/22 15:33	1
Bromobenzene	ND		0.50		ug/L			10/21/22 15:33	1
Bromochloromethane	ND		0.50		ug/L			10/21/22 15:33	1
Bromodichloromethane	ND		0.50		ug/L			10/21/22 15:33	1
Bromoform	ND		0.50		ug/L			10/21/22 15:33	1
Bromomethane (Methyl Bromide)	ND		0.50		ug/L			10/21/22 15:33	1
Carbon disulfide	ND		0.50		ug/L			10/21/22 15:33	1
Carbon tetrachloride	ND		0.50		ug/L			10/21/22 15:33	1
Chlorobenzene	ND		0.50		ug/L			10/21/22 15:33	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/22 15:33	1
Chloroethane	ND		0.50		ug/L			10/21/22 15:33	1
Chloroform (Trichloromethane)	ND		0.50		ug/L			10/21/22 15:33	1
cis-1,2-Dichloroethylene	ND		0.50		ug/L			10/21/22 15:33	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-21526/15
Matrix: Water
Analysis Batch: 21526

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/21/22 15:33	1
Dibromomethane	ND		0.50		ug/L			10/21/22 15:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/21/22 15:33	1
Dichloromethane	ND		0.50		ug/L			10/21/22 15:33	1
Ethylbenzene	ND		0.50		ug/L			10/21/22 15:33	1
Hexachlorobutadiene	ND		0.50		ug/L			10/21/22 15:33	1
Isopropy benzene	ND		0.50		ug/L			10/21/22 15:33	1
m,p-Xylenes	ND		0.50		ug/L			10/21/22 15:33	1
m-Dichlorobenzene (1,3-DCB)	ND		0.50		ug/L			10/21/22 15:33	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50		ug/L			10/21/22 15:33	1
Naphthalene	ND		0.50		ug/L			10/21/22 15:33	1
n-Butylbenzene	ND		0.50		ug/L			10/21/22 15:33	1
N-Propylbenzene	ND		0.50		ug/L			10/21/22 15:33	1
o-Chlorotoluene	ND		0.50		ug/L			10/21/22 15:33	1
o-Dichlorobenzene (1,2-DCB)	ND		0.50		ug/L			10/21/22 15:33	1
o-Xylene	ND		0.50		ug/L			10/21/22 15:33	1
p-Chlorotoluene	ND		0.50		ug/L			10/21/22 15:33	1
p-Dichlorobenzene (1,4-DCB)	ND		0.50		ug/L			10/21/22 15:33	1
p-Isopropyltoluene	ND		0.50		ug/L			10/21/22 15:33	1
sec-Butylbenzene	ND		0.50		ug/L			10/21/22 15:33	1
Styrene	ND		0.50		ug/L			10/21/22 15:33	1
Tert-amyl methyl ether	ND		3.0		ug/L			10/21/22 15:33	1
1,3-Dichloropropene, Total	ND		0.50		ug/L			10/21/22 15:33	1
Tert-butyl ethyl ether	ND		3.0		ug/L			10/21/22 15:33	1
tert-Butylbenzene	ND		0.50		ug/L			10/21/22 15:33	1
Tetrachloroethene (PCE)	ND		0.50		ug/L			10/21/22 15:33	1
Toluene	ND		0.50		ug/L			10/21/22 15:33	1
trans-1,2-Dichloroethylene	ND		0.50		ug/L			10/21/22 15:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/21/22 15:33	1
Trichloroethylene (TCE)	ND		0.50		ug/L			10/21/22 15:33	1
Bromoethane	ND		0.50		ug/L			10/21/22 15:33	1
Trichlorofluoromethane (Freon 11)	ND		0.50		ug/L			10/21/22 15:33	1
Chloromethane (methyl chloride)	ND		0.50		ug/L			10/21/22 15:33	1
Trichlorotrifluoroethane	ND		0.50		ug/L			10/21/22 15:33	1
Diisopropyl ether	ND		3.0		ug/L			10/21/22 15:33	1
Vinyl Chloride (VC)	ND		0.30		ug/L			10/21/22 15:33	1
Xylenes, Total	ND		0.50		ug/L			10/21/22 15:33	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/21/22 15:33*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*10/21/22 15:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/21/22 15:33*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/21/22 15:33*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-21526/11
Matrix: Water
Analysis Batch: 21526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.61		ug/L		92	70 - 130
1,1,1-Trichloroethane	5.00	4.42		ug/L		88	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.56		ug/L		91	70 - 130
1,1,2-Trichloroethane	5.00	4.57		ug/L		91	70 - 130
1,1-Dichloroethane	5.00	4.34		ug/L		87	70 - 130
1,1-Dichlorethylene	5.00	4.39		ug/L		88	70 - 130
1,1-Dichloropropene	5.00	4.45		ug/L		89	70 - 130
1,2,3-Trichlorobenzene	5.00	5.59		ug/L		112	70 - 130
1,2,3-Trichloropropane	5.00	4.54		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	5.00	4.88		ug/L		98	70 - 130
1,2,4-Trimethy benzene	5.00	4.66		ug/L		93	70 - 130
1,2-Dichloroethane	5.00	4.53		ug/L		91	70 - 130
1,2-Dichloropropane	5.00	4.63		ug/L		93	70 - 130
1,3,5-Trimethy benzene	5.00	4.39		ug/L		88	70 - 130
1,3-Dichloropropane	5.00	4.63		ug/L		93	70 - 130
2,2-Dichloropropane	5.00	4.06		ug/L		81	70 - 130
2-Butanone (MEK)	50.0	45.7		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	53.6		ug/L		107	70 - 130
Acetone	50.0	48.6	J	ug/L		97	70 - 130
Benzene	5.00	4.47		ug/L		89	70 - 130
Bromobenzene	5.00	4.53		ug/L		91	70 - 130
Bromochloromethane	5.00	4.40		ug/L		88	70 - 130
Bromodichloromethane	5.00	4.29		ug/L		86	70 - 130
Bromoform	5.00	4.49		ug/L		90	70 - 130
Bromomethane (Methyl Bromide)	5.00	4.22		ug/L		84	70 - 130
Carbon disulfide	5.00	4.17		ug/L		83	70 - 130
Carbon tetrachloride	5.00	4.48		ug/L		90	70 - 130
Chlorobenzene	5.00	4.72		ug/L		94	70 - 130
Chlorodibromomethane	5.00	4.30		ug/L		86	70 - 130
cis-1,3-Dichloropropene	5.00	4.25		ug/L		85	70 - 130
Dichloromethane	5.00	4.37		ug/L		87	70 - 130
Ethylbenzene	5.00	4.59		ug/L		92	70 - 130
Hexachlorobutadiene	5.00	4.79		ug/L		96	70 - 130
Isopropy benzene	5.00	4.61		ug/L		92	70 - 130
m,p-Xylenes	10.0	9.65		ug/L		96	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	4.87		ug/L		97	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.68		ug/L		94	70 - 130
Naphthalene	5.00	5.78		ug/L		116	70 - 130
n-Butylbenzene	5.00	4.88		ug/L		98	70 - 130
N-Propylbenzene	5.00	4.91		ug/L		98	70 - 130
o-Chlorotoluene	5.00	4.75		ug/L		95	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	4.93		ug/L		99	70 - 130
o-Xylene	5.00	4.75		ug/L		95	70 - 130
p-Chlorotoluene	5.00	5.07		ug/L		101	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	4.88		ug/L		98	70 - 130
p-Isopropyltoluene	5.00	5.00		ug/L		100	70 - 130
sec-Butylbenzene	5.00	4.86		ug/L		97	70 - 130
Styrene	5.00	4.51		ug/L		90	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-21526/11
Matrix: Water
Analysis Batch: 21526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	5.00	4.62		ug/L		92	70 - 130
1,3-Dichloropropene, Total	10.0	8.28		ug/L		83	70 - 130
Tert-butyl ethyl ether	5.00	4.44		ug/L		89	70 - 130
tert-Butylbenzene	5.00	4.65		ug/L		93	70 - 130
Tetrachloroethene (PCE)	5.00	4.49		ug/L		90	70 - 130
Toluene	5.00	4.64		ug/L		93	70 - 130
trans-1,2-Dichloroethylene	5.00	4.51		ug/L		90	70 - 130
trans-1,3-Dichloropropene	5.00	4.03		ug/L		81	70 - 130
Trichloroethylene (TCE)	5.00	4.57		ug/L		91	70 - 130
Bromoethane	5.00	4.48		ug/L		90	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	4.42		ug/L		88	70 - 130
Trichlorotrifluoroethane	5.00	4.68		ug/L		94	70 - 130
Diisopropyl ether	5.00	4.39		ug/L		88	70 - 130
Vinyl Chloride (VC)	5.00	4.28		ug/L		86	70 - 130
Xylenes, Total	15.0	14.4		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 380-21526/12
Matrix: Water
Analysis Batch: 21526

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.26		ug/L		105	70 - 130	13	20
1,1,1-Trichloroethane	5.00	5.28		ug/L		106	70 - 130	18	20
1,1,2,2-Tetrachloroethane	5.00	5.21		ug/L		104	70 - 130	13	20
1,1,2-Trichloroethane	5.00	5.07		ug/L		101	70 - 130	10	20
1,1-Dichloroethane	5.00	5.18		ug/L		104	70 - 130	18	20
1,1-Dichlorethylene	5.00	4.98		ug/L		100	70 - 130	13	20
1,1-Dichloropropene	5.00	5.28		ug/L		106	70 - 130	17	20
1,2,3-Trichlorobenzene	5.00	5.88		ug/L		118	70 - 130	5	20
1,2,3-Trichloropropane	5.00	5.29		ug/L		106	70 - 130	15	20
1,2,4-Trichlorobenzene	5.00	5.27		ug/L		105	70 - 130	8	20
1,2,4-Trimethy benzene	5.00	5.61		ug/L		112	70 - 130	19	20
1,2-Dichloroethane	5.00	5.18		ug/L		104	70 - 130	13	20
1,2-Dichloropropane	5.00	5.31		ug/L		106	70 - 130	14	20
1,3,5-Trimethy benzene	5.00	5.47	*1	ug/L		109	70 - 130	22	20
1,3-Dichloropropane	5.00	5.22		ug/L		104	70 - 130	12	20
2,2-Dichloropropane	5.00	4.87		ug/L		97	70 - 130	18	20
2-Butanone (MEK)	50.0	53.4		ug/L		107	70 - 130	15	20
4-Methyl-2-pentanone (MIBK)	50.0	60.0		ug/L		120	70 - 130	11	20
Acetone	50.0	56.1	J	ug/L		112	70 - 130	14	20
Benzene	5.00	5.30		ug/L		106	70 - 130	17	20
Bromobenzene	5.00	5.22		ug/L		104	70 - 130	14	20
Bromochloromethane	5.00	5.20		ug/L		104	70 - 130	17	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-21526/12
Matrix: Water
Analysis Batch: 21526

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane			5.00	5.01		ug/L		100	70 - 130	15	20
Bromoform			5.00	5.42		ug/L		108	70 - 130	19	20
Bromomethane (Methyl Bromide)			5.00	5.27	*1	ug/L		105	70 - 130	22	20
Carbon disulfide			5.00	4.98		ug/L		100	70 - 130	18	20
Carbon tetrachloride			5.00	5.28		ug/L		106	70 - 130	16	20
Chlorobenzene			5.00	5.47		ug/L		109	70 - 130	15	20
Chlorodibromomethane			5.00	5.06		ug/L		101	70 - 130	16	20
cis-1,3-Dichloropropene			5.00	4.84		ug/L		97	70 - 130	13	20
Dichloromethane			5.00	4.77		ug/L		95	70 - 130	9	20
Ethylbenzene			5.00	5.45		ug/L		109	70 - 130	17	20
Hexachlorobutadiene			5.00	5.53		ug/L		111	70 - 130	14	20
Isopropy benzene			5.00	5.52		ug/L		110	70 - 130	18	20
m,p-Xylenes			10.0	11.8		ug/L		118	70 - 130	20	20
m-Dichlorobenzene (1,3-DCB)			5.00	5.57		ug/L		111	70 - 130	13	20
Methyl-tert-butyl Ether (MTBE)			5.00	5.19		ug/L		104	70 - 130	10	20
Naphthalene			5.00	6.06		ug/L		121	70 - 130	5	20
n-Butylbenzene			5.00	5.65		ug/L		113	70 - 130	15	20
N-Propylbenzene			5.00	5.68		ug/L		114	70 - 130	15	20
o-Chlorotoluene			5.00	5.47		ug/L		109	70 - 130	14	20
o-Dichlorobenzene (1,2-DCB)			5.00	5.48		ug/L		110	70 - 130	11	20
o-Xylene			5.00	5.56		ug/L		111	70 - 130	16	20
p-Chlorotoluene			5.00	5.76		ug/L		115	70 - 130	13	20
p-Dichlorobenzene (1,4-DCB)			5.00	5.71		ug/L		114	70 - 130	16	20
p-Isopropyltoluene			5.00	5.82		ug/L		116	70 - 130	15	20
sec-Butylbenzene			5.00	5.76		ug/L		115	70 - 130	17	20
Styrene			5.00	5.60	*1	ug/L		112	70 - 130	22	20
Tert-amyl methyl ether			5.00	5.37		ug/L		107	70 - 130	15	20
1,3-Dichloropropene, Total			10.0	9.34		ug/L		93	70 - 130	12	20
Tert-butyl ethyl ether			5.00	5.01		ug/L		100	70 - 130	12	20
tert-Butylbenzene			5.00	5.54		ug/L		111	70 - 130	18	20
Tetrachloroethene (PCE)			5.00	5.19		ug/L		104	70 - 130	14	20
Toluene			5.00	5.42		ug/L		108	70 - 130	15	20
trans-1,2-Dichloroethylene			5.00	5.09		ug/L		102	70 - 130	12	20
trans-1,3-Dichloropropene			5.00	4.50		ug/L		90	70 - 130	11	20
Trichloroethylene (TCE)			5.00	5.25		ug/L		105	70 - 130	14	20
Bromoethane			5.00	4.85		ug/L		97	70 - 130	8	20
Trichlorofluoromethane (Freon 11)			5.00	5.25		ug/L		105	70 - 130	17	20
Trichlorotrifluoroethane			5.00	5.46		ug/L		109	70 - 130	16	20
Diisopropyl ether			5.00	5.11		ug/L		102	70 - 130	15	20
Vinyl Chloride (VC)			5.00	4.60		ug/L		92	70 - 130	7	20
Xylenes, Total			15.0	17.4		ug/L		116	70 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-21526/10
Matrix: Water
Analysis Batch: 21526

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.500	0.455	J	ug/L		91	50 - 150
Vinyl Chloride (VC)	0.250	0.225	J	ug/L		90	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: MRL 380-21526/14
Matrix: Water
Analysis Batch: 21526

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.500	0.452	J	ug/L		90	50 - 150
1,1,1-Trichloroethane	0.500	0.439	J	ug/L		88	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.548		ug/L		110	50 - 150
1,1,2-Trichloroethane	0.500	0.504		ug/L		101	50 - 150
1,1-Dichloroethane	0.500	0.538		ug/L		108	50 - 150
1,1-Dichlorethylene	0.500	0.420	J	ug/L		84	50 - 150
1,1-Dichloropropene	0.500	0.481	J	ug/L		96	50 - 150
1,2,3-Trichlorobenzene	0.500	0.579		ug/L		116	50 - 150
1,2,3-Trichloropropane	0.500	0.518		ug/L		104	50 - 150
1,2,4-Trichlorobenzene	0.500	0.496	J	ug/L		99	50 - 150
1,2,4-Trimethy benzene	0.500	0.363	J	ug/L		73	50 - 150
1,2-Dichloroethane	0.500	0.509		ug/L		102	50 - 150
1,2-Dichloropropane	0.500	0.454	J	ug/L		91	50 - 150
1,3,5-Trimethy benzene	0.500	0.382	J	ug/L		76	50 - 150
1,3-Dichloropropane	0.500	0.484	J	ug/L		97	50 - 150
2,2-Dichloropropane	0.500	0.391	J	ug/L		78	50 - 150
2-Butanone (MEK)	5.00	5.51		ug/L		110	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	3.96	J	ug/L		79	50 - 150
Acetone	5.00	4.17	J	ug/L		83	50 - 150
Benzene	0.500	0.485	J	ug/L		97	50 - 150
Bromobenzene	0.500	0.438	J	ug/L		88	50 - 150
Bromochloromethane	0.500	0.527		ug/L		105	50 - 150
Bromodichloromethane	0.500	0.476	J	ug/L		95	50 - 150
Bromoform	0.500	0.604		ug/L		121	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.473	J	ug/L		95	50 - 150
Carbon disulfide	0.500	0.415	J	ug/L		83	50 - 150
Carbon tetrachloride	0.500	0.467	J	ug/L		93	50 - 150
Chlorobenzene	0.500	0.433	J	ug/L		87	50 - 150
Chlorodibromomethane	0.500	0.423	J	ug/L		85	50 - 150
cis-1,3-Dichloropropene	0.500	0.346	J	ug/L		69	50 - 150
Dichloromethane	0.500	0.341	J	ug/L		68	50 - 150
Ethylbenzene	0.500	0.378	J	ug/L		76	50 - 150
Hexachlorobutadiene	0.500	0.572		ug/L		114	50 - 150
Isopropy benzene	0.500	0.375	J	ug/L		75	50 - 150
m,p-Xylenes	1.00	0.767		ug/L		77	50 - 150

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-21526/14
Matrix: Water
Analysis Batch: 21526

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
m-Dichlorobenzene (1,3-DCB)	0.500	0.487	J	ug/L		97	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.451	J	ug/L		90	50 - 150
Naphthalene	0.500	0.623		ug/L		125	50 - 150
n-Butylbenzene	0.500	0.420	J	ug/L		84	50 - 150
N-Propylbenzene	0.500	0.391	J	ug/L		78	50 - 150
o-Chlorotoluene	0.500	0.440	J	ug/L		88	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.477	J	ug/L		95	50 - 150
o-Xylene	0.500	0.355	J	ug/L		71	50 - 150
p-Chlorotoluene	0.500	0.424	J	ug/L		85	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.456	J	ug/L		91	50 - 150
p-Isopropyltoluene	0.500	0.366	J	ug/L		73	50 - 150
sec-Butylbenzene	0.500	0.373	J	ug/L		75	50 - 150
Styrene	0.500	0.311	J	ug/L		62	50 - 150
Tert-amyl methyl ether	0.500	0.467	J	ug/L		93	50 - 150
1,3-Dichloropropene, Total	1.00	0.710		ug/L		71	50 - 150
Tert-butyl ethyl ether	0.500	0.458	J	ug/L		92	50 - 150
tert-Butylbenzene	0.500	0.368	J	ug/L		74	50 - 150
Tetrachloroethene (PCE)	0.500	0.485	J	ug/L		97	50 - 150
Toluene	0.500	0.444	J	ug/L		89	50 - 150
trans-1,2-Dichloroethylene	0.500	0.546		ug/L		109	50 - 150
trans-1,3-Dichloropropene	0.500	0.364	J	ug/L		73	50 - 150
Trichloroethylene (TCE)	0.500	0.468	J	ug/L		94	50 - 150
Bromoethane	0.500	0.475	J	ug/L		95	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.443	J	ug/L		89	50 - 150
Trichlorotrifluoroethane	0.500	0.425	J	ug/L		85	50 - 150
Diisopropyl ether	0.500	0.508	J	ug/L		102	50 - 150
Vinyl Chloride (VC)	0.500	0.403		ug/L		81	50 - 150
Xylenes, Total	1.50	1.12		ug/L		75	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 380-21441/5
Matrix: Water
Analysis Batch: 21441

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	ND		2.0	ug/L			10/20/22 20:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/22 20:09*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/20/22 20:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*10/20/22 20:09*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 380-21441/2
Matrix: Water
Analysis Batch: 21441

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tertiary Butyl Alcohol (TBA)			5.00	5.90		ug/L		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 380-21441/3
Matrix: Water
Analysis Batch: 21441

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tertiary Butyl Alcohol (TBA)			5.00	5.90		ug/L		118	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*

Lab Sample ID: MRL 380-21441/4
Matrix: Water
Analysis Batch: 21441

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Tertiary Butyl Alcohol (TBA)			2.00	2.56		ug/L		128	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*50 - 150*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*115*		*50 - 150*

Lab Sample ID: MB 380-22279/5
Matrix: Water
Analysis Batch: 22279

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	ND		2.0		ug/L			10/27/22 16:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/27/22 16:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/27/22 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*10/27/22 16:20*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 380-22279/2
Matrix: Water
Analysis Batch: 22279

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tertiary Butyl Alcohol (TBA)			5.00	5.35		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 380-22279/3
Matrix: Water
Analysis Batch: 22279

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tertiary Butyl Alcohol (TBA)			5.00	5.56		ug/L		111	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*

Lab Sample ID: MRL 380-22279/4
Matrix: Water
Analysis Batch: 22279

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Tertiary Butyl Alcohol (TBA)			2.00	2.44		ug/L		122	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*50 - 150*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*118*		*50 - 150*

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

Lab Sample ID: MB 380-21477/1-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
2,4'-DDE	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
2,4'-DDT	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
2,4-Dinitrotoluene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
2,6-Dinitrotoluene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
4,4'-DDD	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
4,4'-DDE	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
4,4'-DDT	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Acenaphthene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Acenaphthylene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1

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

Lab Sample ID: MB 380-21477/1-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetochlor	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Alachlor	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
alpha-BHC	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
alpha-Chlordane	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Anthracene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 17:28	1
Atrazine	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Benz(a)anthracene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Benzo[a]pyrene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 17:28	1
Benzo[b]fluoranthene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 17:28	1
Benzo[g,h,i]perylene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Benzo[k]fluoranthene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 17:28	1
beta-BHC	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Bis(2-ethylhexyl) phthalate	ND		0.60		ug/L		10/21/22 07:31	10/24/22 17:28	1
Bromacil	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Butachlor	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Butylbenzylphthalate	ND		0.50		ug/L		10/21/22 07:31	10/24/22 17:28	1
Chlorobenzilate	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Chloroneb	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Chlorothalonil (Draconil, Bravo)	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Chlorpyrifos	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Chrysene	ND		0.020		ug/L		10/21/22 07:31	10/24/22 17:28	1
delta-BHC	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Di(2-ethylhexyl)adipate	ND		0.60		ug/L		10/21/22 07:31	10/24/22 17:28	1
Dibenz(a,h)anthracene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Diclorvos (DDVP)	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Dieldrin	ND		0.20		ug/L		10/21/22 07:31	10/24/22 17:28	1
Diethylphthalate	ND		0.50		ug/L		10/21/22 07:31	10/24/22 17:28	1
Dimethylphthalate	ND		0.50		ug/L		10/21/22 07:31	10/24/22 17:28	1
Di-n-butyl phthalate	ND		0.99		ug/L		10/21/22 07:31	10/24/22 17:28	1
Di-n-octyl phthalate	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Endosulfan I (Alpha)	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Endosulfan II (Beta)	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Endosulfan sulfate	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Endrin	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Endrin aldehyde	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
EPTC	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Fluoranthene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Fluorene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
gamma-BHC (Lindane)	ND		0.040		ug/L		10/21/22 07:31	10/24/22 17:28	1
gamma-Chlordane	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Heptachlor	ND		0.040		ug/L		10/21/22 07:31	10/24/22 17:28	1
Heptachlor epoxide (isomer B)	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Hexachlorobenzene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Hexachlorocyclopentadiene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Indeno[1,2,3-cd]pyrene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Isophorone	ND		0.50		ug/L		10/21/22 07:31	10/24/22 17:28	1
Malathion	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Methoxychlor	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Metolachlor	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1

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

Lab Sample ID: MB 380-21477/1-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Metribuzin	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Molinate	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Naphthalene	ND		0.30		ug/L		10/21/22 07:31	10/24/22 17:28	1
Parathion	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Pendimethalin (Penoxaline)	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Phenanthrene	ND		0.040		ug/L		10/21/22 07:31	10/24/22 17:28	1
Propachlor	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Pyrene	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Simazine	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Terbacil	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Terbuthylazine	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
Thiobencarb	ND		0.20		ug/L		10/21/22 07:31	10/24/22 17:28	1
Total Permethrin (mixed isomers)	ND		0.20		ug/L		10/21/22 07:31	10/24/22 17:28	1
trans-Nonachlor	ND		0.050		ug/L		10/21/22 07:31	10/24/22 17:28	1
Trifluralin	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
1-Methylnaphthalene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1
2-Methylnaphthalene	ND		0.099		ug/L		10/21/22 07:31	10/24/22 17:28	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.898*	*T J*	*ug/L*		*2.33*		*10/21/22 07:31*	*10/24/22 17:28*	*1*
Unknown	*1.64*	*T J*	*ug/L*		*2.55*		*10/21/22 07:31*	*10/24/22 17:28*	*1*
Unknown	*0.936*	*T J*	*ug/L*		*2.92*		*10/21/22 07:31*	*10/24/22 17:28*	*1*
9-Octadecenamide, (Z)-	*0.904*	*T J N*	*ug/L*		*7.96*	*301-02-0*	*10/21/22 07:31*	*10/24/22 17:28*	*1*
Squalene	*0.764*	*T J N*	*ug/L*		*10.76*	*111-02-4*	*10/21/22 07:31*	*10/24/22 17:28*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*96*		*70 - 130*	*10/21/22 07:31*	*10/24/22 17:28*	*1*
Perylene-d12	*93*		*70 - 130*	*10/21/22 07:31*	*10/24/22 17:28*	*1*
Triphenylphosphate	*109*		*70 - 130*	*10/21/22 07:31*	*10/24/22 17:28*	*1*

Lab Sample ID: LCS 380-21477/3-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.99	1.92		ug/L		97	70 - 130
2,4'-DDE	1.99	2.06		ug/L		104	70 - 130
2,4'-DDT	1.99	2.07		ug/L		104	70 - 130
2,4-Dinitrotoluene	1.99	1.95		ug/L		98	70 - 130
2,6-Dinitrotoluene	1.99	1.90		ug/L		95	70 - 130
4,4'-DDD	1.99	2.03		ug/L		102	70 - 130
4,4'-DDE	1.99	2.08		ug/L		105	70 - 130
4,4'-DDT	1.99	2.05		ug/L		103	70 - 130
Acenaphthene	1.99	1.80		ug/L		91	70 - 130
Acenaphthylene	1.99	1.83		ug/L		92	70 - 130
Acetochlor	1.99	1.99		ug/L		100	70 - 130
Alachlor	1.99	1.99		ug/L		100	70 - 130
alpha-BHC	1.99	1.94		ug/L		97	70 - 130

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

Lab Sample ID: LCS 380-21477/3-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	1.99	1.81		ug/L		91	70 - 130
Anthracene	1.99	1.81		ug/L		91	70 - 130
Atrazine	1.99	2.32		ug/L		117	70 - 130
Benz(a)anthracene	1.99	2.03		ug/L		102	70 - 130
Benzo[a]pyrene	1.99	1.90		ug/L		95	70 - 130
Benzo[b]fluoranthene	1.99	1.92		ug/L		96	70 - 130
Benzo[g,h,i]perylene	1.99	1.59		ug/L		80	70 - 130
Benzo[k]fluoranthene	1.99	1.99		ug/L		100	70 - 130
beta-BHC	1.99	2.05		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.81		ug/L		91	70 - 130
Bromacil	1.99	2.51		ug/L		126	70 - 130
Butachlor	1.99	2.08		ug/L		105	70 - 130
Butylbenzylphthalate	1.99	2.28		ug/L		115	70 - 130
Chlorobenzilate	1.99	2.32		ug/L		117	70 - 130
Chloroneb	1.99	1.92		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.01		ug/L		101	70 - 130
Chlorpyrifos	1.99	2.13		ug/L		107	70 - 130
Chrysene	1.99	1.95		ug/L		98	70 - 130
delta-BHC	1.99	1.98		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.25		ug/L		113	70 - 130
Dibenz(a,h)anthracene	1.99	1.60		ug/L		81	70 - 130
Diclorvos (DDVP)	1.99	1.98		ug/L		99	70 - 130
Dieldrin	1.99	2.10		ug/L		106	70 - 130
Diethylphthalate	1.99	1.97		ug/L		99	70 - 130
Dimethylphthalate	1.99	1.96		ug/L		98	70 - 130
Di-n-butyl phthalate	3.98	4.10		ug/L		103	70 - 130
Di-n-octyl phthalate	1.99	1.54		ug/L		77	70 - 130
Endosulfan I (Alpha)	1.99	1.78		ug/L		90	70 - 130
Endosulfan II (Beta)	1.99	2.09		ug/L		105	70 - 130
Endosulfan sulfate	1.99	2.06		ug/L		104	70 - 130
Endrin	1.99	1.93		ug/L		97	70 - 130
Endrin aldehyde	1.99	2.24		ug/L		113	70 - 130
EPTC	1.99	1.76		ug/L		89	70 - 130
Fluoranthene	1.99	2.12		ug/L		107	70 - 130
Fluorene	1.99	1.91		ug/L		96	70 - 130
gamma-BHC (Lindane)	1.99	2.00		ug/L		100	70 - 130
gamma-Chlordane	1.99	1.81		ug/L		91	70 - 130
Heptachlor	1.99	1.79		ug/L		90	70 - 130
Heptachlor epoxide (isomer B)	1.99	1.87		ug/L		94	70 - 130
Hexachlorobenzene	1.99	1.84		ug/L		93	70 - 130
Hexachlorocyclopentadiene	1.99	1.90		ug/L		95	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	1.59		ug/L		80	70 - 130
Isophorone	1.99	1.70		ug/L		86	70 - 130
Malathion	1.99	2.11		ug/L		106	70 - 130
Methoxychlor	1.99	2.01		ug/L		101	70 - 130
Metolachlor	1.99	2.13		ug/L		107	70 - 130
Metribuzin	1.99	2.16		ug/L		109	70 - 130
Molinate	1.99	1.84		ug/L		93	70 - 130
Naphthalene	1.99	1.79		ug/L		90	70 - 130

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

Lab Sample ID: LCS 380-21477/3-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21477

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Parathion			1.99	2.43		ug/L		122	70 - 130		
Pendimethalin (Penoxaline)			1.99	2.03		ug/L		102	70 - 130		
Phenanthrene			1.99	1.83		ug/L		92	70 - 130		
Propachlor			1.99	2.01		ug/L		101	70 - 130		
Pyrene			1.99	2.14		ug/L		108	70 - 130		
Simazine			1.99	2.35		ug/L		118	70 - 130		
Terbacil			1.99	2.34		ug/L		118	70 - 130		
Terbuthylazine			1.99	2.11		ug/L		106	70 - 130		
Thiobencarb			1.99	1.98		ug/L		100	70 - 130		
trans-Nonachlor			1.99	1.81		ug/L		91	70 - 130		
Trifluralin			1.99	1.96		ug/L		99	70 - 130		
1-Methylnaphthalene			1.99	1.81		ug/L		91	70 - 130		
2-Methylnaphthalene			1.99	1.80		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*97*		*70 - 130*
Perylene-d12	*92*		*70 - 130*
Triphenylphosphate	*112*		*70 - 130*

Lab Sample ID: LCSD 380-21477/4-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21477

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4'-DDD			1.99	1.98		ug/L		100	70 - 130	3	20
2,4'-DDE			1.99	2.14		ug/L		107	70 - 130	4	20
2,4'-DDT			1.99	2.15		ug/L		108	70 - 130	4	20
2,4-Dinitrotoluene			1.99	1.99		ug/L		100	70 - 130	2	20
2,6-Dinitrotoluene			1.99	1.93		ug/L		97	70 - 130	2	20
4,4'-DDD			1.99	2.13		ug/L		107	70 - 130	5	20
4,4'-DDE			1.99	2.11		ug/L		106	70 - 130	2	20
4,4'-DDT			1.99	2.10		ug/L		106	70 - 130	3	20
Acenaphthene			1.99	1.82		ug/L		92	70 - 130	1	20
Acenaphthylene			1.99	1.86		ug/L		93	70 - 130	2	20
Acetochlor			1.99	2.03		ug/L		102	70 - 130	2	20
Alachlor			1.99	2.02		ug/L		101	70 - 130	1	20
alpha-BHC			1.99	1.96		ug/L		99	70 - 130	1	20
alpha-Chlordane			1.99	1.85		ug/L		93	70 - 130	2	20
Anthracene			1.99	1.83		ug/L		92	70 - 130	1	20
Atrazine			1.99	2.36		ug/L		118	70 - 130	1	20
Benz(a)anthracene			1.99	2.11		ug/L		106	70 - 130	4	20
Benzo[a]pyrene			1.99	2.00		ug/L		101	70 - 130	5	20
Benzo[b]fluoranthene			1.99	2.04		ug/L		103	70 - 130	6	20
Benzo[g,h,i]perylene			1.99	1.68		ug/L		84	70 - 130	5	20
Benzo[k]fluoranthene			1.99	2.12		ug/L		106	70 - 130	6	20
beta-BHC			1.99	2.12		ug/L		106	70 - 130	3	20
Bis(2-ethylhexyl) phthalate			1.99	1.87		ug/L		94	70 - 130	4	20
Bromacil			1.99	2.61	*+	ug/L		131	70 - 130	4	20

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

Lab Sample ID: LCSD 380-21477/4-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21477

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Butachlor			1.99	2.16		ug/L		109	70 - 130	4	20
Butylbenzylphthalate			1.99	2.32		ug/L		117	70 - 130	2	20
Chlorobenzilate			1.99	2.42		ug/L		122	70 - 130	4	20
Chloroneb			1.99	1.97		ug/L		99	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)			1.99	2.02		ug/L		101	70 - 130	1	20
Chlorpyrifos			1.99	2.18		ug/L		110	70 - 130	2	20
Chrysene			1.99	2.07		ug/L		104	70 - 130	6	20
delta-BHC			1.99	2.02		ug/L		101	70 - 130	2	20
Di(2-ethylhexyl)adipate			1.99	2.26		ug/L		114	70 - 130	1	20
Dibenz(a,h)anthracene			1.99	1.67		ug/L		84	70 - 130	4	20
Diclorvos (DDVP)			1.99	2.04		ug/L		102	70 - 130	3	20
Dieldrin			1.99	2.11		ug/L		106	70 - 130	0	20
Diethylphthalate			1.99	1.99		ug/L		100	70 - 130	1	20
Dimethylphthalate			1.99	2.01		ug/L		101	70 - 130	3	20
Di-n-butyl phthalate			3.98	4.49		ug/L		113	70 - 130	9	20
Di-n-octyl phthalate			1.99	1.61		ug/L		81	70 - 130	5	20
Endosulfan I (Alpha)			1.99	1.83		ug/L		92	70 - 130	3	20
Endosulfan II (Beta)			1.99	2.17		ug/L		109	70 - 130	4	20
Endosulfan sulfate			1.99	2.11		ug/L		106	70 - 130	2	20
Endrin			1.99	2.04		ug/L		102	70 - 130	5	20
Endrin aldehyde			1.99	2.36		ug/L		118	70 - 130	5	20
EPTC			1.99	1.81		ug/L		91	70 - 130	3	20
Fluoranthene			1.99	2.16		ug/L		108	70 - 130	2	20
Fluorene			1.99	1.94		ug/L		98	70 - 130	2	20
gamma-BHC (Lindane)			1.99	2.04		ug/L		103	70 - 130	2	20
gamma-Chlordane			1.99	1.85		ug/L		93	70 - 130	2	20
Heptachlor			1.99	1.85		ug/L		93	70 - 130	3	20
Heptachlor epoxide (isomer B)			1.99	1.91		ug/L		96	70 - 130	2	20
Hexachlorobenzene			1.99	1.93		ug/L		97	70 - 130	5	20
Hexachlorocyclopentadiene			1.99	1.94		ug/L		98	70 - 130	2	20
Indeno[1,2,3-cd]pyrene			1.99	1.69		ug/L		85	70 - 130	6	20
Isophorone			1.99	1.76		ug/L		88	70 - 130	3	20
Malathion			1.99	2.16		ug/L		109	70 - 130	2	20
Methoxychlor			1.99	2.10		ug/L		105	70 - 130	4	20
Metolachlor			1.99	2.15		ug/L		108	70 - 130	1	20
Metribuzin			1.99	2.25		ug/L		113	70 - 130	4	20
Molinate			1.99	1.94		ug/L		97	70 - 130	5	20
Naphthalene			1.99	1.80		ug/L		91	70 - 130	1	20
Parathion			1.99	2.54		ug/L		128	70 - 130	4	20
Pendimethalin (Penoxaline)			1.99	2.09		ug/L		105	70 - 130	3	20
Phenanthrene			1.99	1.85		ug/L		93	70 - 130	1	20
Propachlor			1.99	2.08		ug/L		104	70 - 130	3	20
Pyrene			1.99	2.21		ug/L		111	70 - 130	3	20
Simazine			1.99	2.45		ug/L		123	70 - 130	4	20
Terbacil			1.99	2.46		ug/L		124	70 - 130	5	20
Terbuthylazine			1.99	2.24		ug/L		113	70 - 130	6	20
Thiobencarb			1.99	2.04		ug/L		102	70 - 130	3	20
trans-Nonachlor			1.99	1.86		ug/L		93	70 - 130	3	20
Trifluralin			1.99	2.02		ug/L		101	70 - 130	3	20

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

Lab Sample ID: LCSD 380-21477/4-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21477

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			1.99	1.85		ug/L		93	70 - 130	3	20
2-Methylnaphthalene			1.99	1.86		ug/L		93	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Nitro-m-xylene	*98*		*70 - 130*
Perylene-d12	*94*		*70 - 130*
Triphenylphosphate	*112*		*70 - 130*

Lab Sample ID: MRL 380-21477/2-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21477

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
2,4'-DDD			0.0995	0.108		ug/L		108	50 - 150		
2,4'-DDE			0.0995	0.0829	J	ug/L		83	50 - 150		
2,4'-DDT			0.0995	0.0741	J	ug/L		74	50 - 150		
2,4-Dinitrotoluene			0.0995	0.103		ug/L		103	50 - 150		
2,6-Dinitrotoluene			0.0995	0.0990	J	ug/L		99	50 - 150		
4,4'-DDD			0.0995	0.0793	J	ug/L		80	50 - 150		
4,4'-DDE			0.0995	0.0763	J	ug/L		77	50 - 150		
4,4'-DDT			0.0995	0.110		ug/L		111	50 - 150		
Acenaphthene			0.0995	0.0868	J	ug/L		87	50 - 150		
Acenaphthylene			0.0995	0.0849	J	ug/L		85	50 - 150		
Acetochlor			0.0498	0.0418	J	ug/L		84	50 - 150		
Alachlor			0.0498	0.0557		ug/L		112	50 - 150		
alpha-BHC			0.0995	0.0970	J	ug/L		98	50 - 150		
alpha-Chlordane			0.0249	ND		ug/L		82	50 - 150		
Anthracene			0.0199	0.0190	J	ug/L		95	50 - 150		
Atrazine			0.0498	ND		ug/L		86	50 - 150		
Benz(a)anthracene			0.0498	0.0659		ug/L		132	50 - 150		
Benzo[a]pyrene			0.0199	0.0141	J	ug/L		71	50 - 150		
Benzo[b]fluoranthene			0.0199	0.0147	J	ug/L		74	50 - 150		
Benzo[g,h,i]perylene			0.0498	0.0430	J	ug/L		86	50 - 150		
Benzo[k]fluoranthene			0.0199	ND		ug/L		77	50 - 150		
beta-BHC			0.0995	0.0976	J	ug/L		98	50 - 150		
Bis(2-ethylhexyl) phthalate			0.597	0.665		ug/L		111	50 - 150		
Bromacil			0.0995	0.187	^3+	ug/L		188	50 - 150		
Butachlor			0.0498	0.0516		ug/L		104	50 - 150		
Butylbenzylphthalate			0.149	0.182	J	ug/L		122	50 - 150		
Chlorobenzilate			0.0995	0.118		ug/L		118	50 - 150		
Chloroneb			0.0995	0.0941	J	ug/L		95	50 - 150		
Chlorothalonil (Draconil, Bravo)			0.0995	0.139		ug/L		140	50 - 150		
Chlorpyrifos			0.0498	0.0476	J	ug/L		96	50 - 150		
Chrysene			0.0199	0.0168	J	ug/L		84	50 - 150		
delta-BHC			0.0995	0.108		ug/L		108	50 - 150		
Di(2-ethylhexyl)adipate			0.299	0.355	J	ug/L		119	50 - 150		
Dibenz(a,h)anthracene			0.0498	0.0384	J	ug/L		77	50 - 150		
Diclorvos (DDVP)			0.0498	0.0521		ug/L		105	50 - 150		

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

Lab Sample ID: MRL 380-21477/2-A
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.0995	0.114	J	ug/L		114	50 - 150
Diethylphthalate	0.149	0.158	J	ug/L		106	50 - 150
Dimethylphthalate	0.299	0.274	J	ug/L		92	50 - 150
Di-n-butyl phthalate	0.299	0.323	J	ug/L		108	49 - 243
Di-n-octyl phthalate	0.0995	0.0966	J	ug/L		97	50 - 150
Endosulfan I (Alpha)	0.0995	0.0829	J	ug/L		83	50 - 150
Endosulfan II (Beta)	0.0995	0.114		ug/L		115	50 - 150
Endosulfan sulfate	0.0995	0.103		ug/L		104	50 - 150
Endrin	0.0995	0.123		ug/L		124	50 - 150
Endrin aldehyde	0.0995	ND		ug/L		80	50 - 150
EPTC	0.0995	0.0842	J	ug/L		85	50 - 150
Fluoranthene	0.0498	0.0459	J	ug/L		92	50 - 150
Fluorene	0.0498	ND		ug/L		85	50 - 150
gamma-BHC (Lindane)	0.0398	0.0458		ug/L		115	50 - 150
gamma-Chlordane	0.0249	0.0214	J	ug/L		86	50 - 150
Heptachlor	0.0398	0.0557		ug/L		140	50 - 150
Heptachlor epoxide (isomer B)	0.0498	0.0415	J	ug/L		83	50 - 150
Hexachlorobenzene	0.0498	0.0443	J	ug/L		89	50 - 150
Hexachlorocyclopentadiene	0.0498	0.0398	J	ug/L		80	50 - 150
Indeno[1,2,3-cd]pyrene	0.0498	0.0402	J	ug/L		81	50 - 150
Isophorone	0.0995	0.0875	J	ug/L		88	50 - 150
Malathion	0.0995	0.0892	J	ug/L		90	50 - 150
Methoxychlor	0.0995	0.116		ug/L		117	50 - 150
Metolachlor	0.0498	0.0561		ug/L		113	50 - 150
Metribuzin	0.0498	0.0364	J	ug/L		73	50 - 150
Molinate	0.0995	0.0837	J	ug/L		84	50 - 150
Naphthalene	0.0995	0.0904	J	ug/L		91	50 - 150
Parathion	0.0995	0.0977	J	ug/L		98	50 - 150
Pendimethalin (Penoxaline)	0.0995	0.113		ug/L		113	50 - 150
Phenanthrene	0.0199	0.0198	J	ug/L		99	50 - 150
Propachlor	0.0498	0.0484	J	ug/L		97	50 - 150
Pyrene	0.0498	0.0452	J	ug/L		91	50 - 150
Simazine	0.0498	0.0543		ug/L		109	50 - 150
Terbacil	0.0995	0.126		ug/L		127	50 - 150
Terbuthylazine	0.0995	0.0797	J	ug/L		80	50 - 150
Thiobencarb	0.0995	0.112	J	ug/L		113	50 - 150
trans-Nonachlor	0.0249	0.0267	J	ug/L		107	50 - 150
Trifluralin	0.0995	0.0761	J	ug/L		76	50 - 150
1-Methylnaphthalene	0.0995	0.0905	J	ug/L		91	50 - 150
2-Methylnaphthalene	0.0995	0.0869	J	ug/L		87	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*97*		*70 - 130*
Perylene-d12	*95*		*70 - 130*
Triphenylphosphate	*109*		*70 - 130*

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

Lab Sample ID: 380-24730-AK-1-A MS
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	ND		1.97	1.94		ug/L		98	70 - 130
2,4'-DDE	ND		1.97	2.04		ug/L		104	70 - 130
2,4'-DDT	ND		1.97	2.06		ug/L		104	70 - 130
2,4-Dinitrotoluene	ND		1.97	2.09		ug/L		106	70 - 130
2,6-Dinitrotoluene	ND		1.97	1.99		ug/L		101	70 - 130
4,4'-DDD	ND		1.97	2.02		ug/L		103	70 - 130
4,4'-DDE	ND		1.97	2.01		ug/L		102	70 - 130
4,4'-DDT	ND		1.97	2.02		ug/L		103	70 - 130
Acenaphthene	ND		1.97	1.83		ug/L		93	70 - 130
Acenaphthylene	ND		1.97	1.92		ug/L		98	70 - 130
Acetochlor	ND		1.97	1.98		ug/L		101	70 - 130
Alachlor	ND		1.97	2.01		ug/L		102	70 - 130
alpha-BHC	ND		1.97	1.94		ug/L		99	70 - 130
alpha-Chlordane	ND		1.97	1.76		ug/L		89	70 - 130
Anthracene	ND		1.97	1.66		ug/L		84	70 - 130
Atrazine	ND		1.97	2.33		ug/L		118	70 - 130
Benz(a)anthracene	ND		1.97	2.02		ug/L		102	70 - 130
Benzo[a]pyrene	ND		1.97	1.94		ug/L		98	70 - 130
Benzo[b]fluoranthene	ND		1.97	1.98		ug/L		100	70 - 130
Benzo[g,h,i]perylene	ND		1.97	1.71		ug/L		87	70 - 130
Benzo[k]fluoranthene	ND		1.97	2.05		ug/L		104	70 - 130
beta-BHC	ND		1.97	2.08		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	ND		1.97	1.71		ug/L		87	70 - 130
Bromacil	ND	^3+ *+ F1	1.97	2.75	F1	ug/L		140	70 - 130
Butachlor	ND		1.97	2.09		ug/L		106	70 - 130
Butylbenzylphthalate	ND		1.97	2.24		ug/L		114	70 - 130
Chlorobenzilate	ND		1.97	2.38		ug/L		121	70 - 130
Chloroneb	ND		1.97	1.95		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	ND		1.97	2.00		ug/L		102	70 - 130
Chlorpyrifos	ND		1.97	2.16		ug/L		109	70 - 130
Chrysene	ND		1.97	2.00		ug/L		102	70 - 130
delta-BHC	ND		1.97	1.95		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	ND		1.97	2.14		ug/L		109	70 - 130
Dibenz(a,h)anthracene	ND		1.97	1.72		ug/L		87	70 - 130
Diclorvos (DDVP)	ND		1.97	2.02		ug/L		102	70 - 130
Dieldrin	ND		1.97	1.98		ug/L		100	70 - 130
Diethylphthalate	ND		1.97	2.02		ug/L		103	70 - 130
Dimethylphthalate	ND		1.97	1.90		ug/L		97	70 - 130
Di-n-butyl phthalate	ND		3.94	4.16		ug/L		102	70 - 130
Di-n-octyl phthalate	ND		1.97	1.52		ug/L		77	70 - 130
Endosulfan I (Alpha)	ND		1.97	1.79		ug/L		91	70 - 130
Endosulfan II (Beta)	ND		1.97	2.10		ug/L		107	70 - 130
Endosulfan sulfate	ND		1.97	1.97		ug/L		100	70 - 130
Endrin	ND		1.97	1.94		ug/L		98	70 - 130
Endrin aldehyde	ND		1.97	1.72		ug/L		87	70 - 130
EPTC	ND		1.97	1.85		ug/L		94	70 - 130
Fluoranthene	ND		1.97	2.12		ug/L		108	70 - 130
Fluorene	ND		1.97	1.93		ug/L		98	70 - 130

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

Lab Sample ID: 380-24730-AK-1-A MS
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-BHC (Lindane)	ND		1.97	2.02		ug/L		102	70 - 130
gamma-Chlordane	ND		1.97	1.76		ug/L		89	70 - 130
Heptachlor	ND		1.97	1.83		ug/L		93	70 - 130
Heptachlor epoxide (isomer B)	ND		1.97	1.83		ug/L		93	70 - 130
Hexachlorobenzene	ND		1.97	1.90		ug/L		97	70 - 130
Hexachlorocyclopentadiene	ND		1.97	1.95		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	ND		1.97	1.73		ug/L		88	70 - 130
Isophorone	ND		1.97	1.75		ug/L		89	70 - 130
Malathion	ND		1.97	2.27		ug/L		115	70 - 130
Methoxychlor	ND		1.97	2.07		ug/L		105	70 - 130
Metolachlor	ND		1.97	2.17		ug/L		110	70 - 130
Metribuzin	ND		1.97	2.26		ug/L		115	70 - 130
Molinate	ND		1.97	2.02		ug/L		102	70 - 130
Naphthalene	ND		1.97	1.82		ug/L		92	70 - 130
Parathion	ND		1.97	2.57		ug/L		130	70 - 130
Pendimethalin (Penoxaline)	ND		1.97	2.14		ug/L		108	70 - 130
Phenanthrene	ND		1.97	1.84		ug/L		93	70 - 130
Propachlor	ND		1.97	2.10		ug/L		106	70 - 130
Pyrene	ND		1.97	2.16		ug/L		110	70 - 130
Simazine	ND		1.97	2.37		ug/L		120	70 - 130
Terbacil	ND		1.97	2.47		ug/L		125	70 - 130
Terbuthylazine	ND		1.97	2.20		ug/L		112	70 - 130
Thiobencarb	ND		1.97	2.00		ug/L		102	70 - 130
trans-Nonachlor	ND		1.97	1.78		ug/L		91	70 - 130
Trifluralin	ND		1.97	2.15		ug/L		109	70 - 130
1-Methylnaphthalene	ND		1.97	1.84		ug/L		93	70 - 130
2-Methylnaphthalene	ND		1.97	1.86		ug/L		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*98*		*70 - 130*
Perylene-d12	*94*		*70 - 130*
Triphenylphosphate	*109*		*70 - 130*

Lab Sample ID: 380-24799-E-1-A DU
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	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

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

Lab Sample ID: 380-24799-E-1-A DU
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
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
Bis(2-ethylhexyl) phthalate	ND			ND		ug/L				NC	20
Bromacil	ND	^3+ *+		ND	*+	ug/L				NC	20
Butachlor	ND			ND		ug/L				NC	20
Butylbenzylphthalate	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
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
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			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-BHC (Lindane)	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
Malathion	ND			ND		ug/L				NC	20
Methoxychlor	ND			ND		ug/L				NC	20
Metolachlor	ND			ND		ug/L				NC	20

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

Lab Sample ID: 380-24799-E-1-A DU
Matrix: Water
Analysis Batch: 21699

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 21477

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
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
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
Terbuthylazine	ND			ND		ug/L				NC	20
Thiobencarb	ND			ND		ug/L				NC	20
Total Permethrin (mixed isomers)	ND			ND		ug/L				NC	20
trans-Nonachlor	ND			ND		ug/L				NC	20
Trifluralin	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*95*		*70 - 130*
Perylene-d12	*94*		*70 - 130*
Triphenylphosphate	*118*		*70 - 130*

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MBL 380-21364/4-A
Matrix: Water
Analysis Batch: 21577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21364

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.040		ug/L		10/20/22 13:23	10/20/22 17:55	1
1,2-D bromo-3-Chloropropane	ND		0.010		ug/L		10/20/22 13:23	10/20/22 17:55	1
1,2-D bromoethane	ND		0.010		ug/L		10/20/22 13:23	10/20/22 17:55	1

Surrogate	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane (Surr)	*99*		*60 - 140*	*10/20/22 13:23*	*10/20/22 17:55*	*1*

Lab Sample ID: LCS 380-21364/3-A
Matrix: Water
Analysis Batch: 21577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21364

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.200	0.242		ug/L		121	70 - 130		
1,2-D bromo-3-Chloropropane			0.200	0.199		ug/L		100	70 - 130		
1,2-D bromoethane			0.200	0.227		ug/L		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*113*		*60 - 140*

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MRL 380-21364/1-A
Matrix: Water
Analysis Batch: 21577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21364

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.0400	0.0531		ug/L		133	60 - 140		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*114*		*60 - 140*

Lab Sample ID: MRL 380-21364/2-A
Matrix: Water
Analysis Batch: 21577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21364

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.0500	0.0651		ug/L		130	60 - 140		
1,2-D bromo-3-Chloropropane			0.0100	0.0137		ug/L		137	60 - 140		
1,2-D bromoethane			0.0100	0.0110		ug/L		110	60 - 140		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*111*		*60 - 140*

Lab Sample ID: 380-23978-F-1-A MS
Matrix: Water
Analysis Batch: 21577

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane	ND		1.25	1.29		ug/L		103	65 - 135		
1,2-D bromo-3-Chloropropane	ND		0.250	0.256		ug/L		103	65 - 135		
1,2-D bromoethane	ND		0.250	0.238		ug/L		95	65 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*111*		*60 - 140*

Lab Sample ID: 380-23978-M-2-A DU
Matrix: Water
Analysis Batch: 21577

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 21364

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2-D bromo-3-Chloropropane	ND			ND		ug/L				6	20
1,2-D bromoethane	ND			ND		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*115*		*60 - 140*

Lab Sample ID: MBL 380-22241/12-A
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22241

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.040		ug/L		10/27/22 12:27	10/27/22 22:33	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MBL 380-22241/12-A
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22241

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-D bromo-3-Chloropropane	ND		0.010		ug/L		10/27/22 12:27	10/27/22 22:33	1
1,2-D bromoethane	ND		0.010		ug/L		10/27/22 12:27	10/27/22 22:33	1

Surrogate	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane (Surr)	*121*		*60 - 140*	*10/27/22 12:27*	*10/27/22 22:33*	*1*

Lab Sample ID: LCS 380-22241/11-A
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.200	0.223		ug/L		111	70 - 130		
1,2-D bromo-3-Chloropropane			0.200	0.210		ug/L		105	70 - 130		
1,2-D bromoethane			0.200	0.205		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*106*		*60 - 140*

Lab Sample ID: MRL 380-22241/10-A
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22241

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.0500	0.0438		ug/L		88	60 - 140		
1,2-D bromo-3-Chloropropane			0.0100	0.0130		ug/L		130	60 - 140		
1,2-D bromoethane			0.0100	0.0106		ug/L		106	60 - 140		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*113*		*60 - 140*

Lab Sample ID: MRL 380-22241/9-A
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22241

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			0.0400	0.0445		ug/L		111	60 - 140		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dibromopropane (Surr)	*104*		*60 - 140*

Lab Sample ID: 380-24862-K-1-A MS
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane	ND		1.25	1.38		ug/L		110	65 - 135		
1,2-D bromo-3-Chloropropane	ND		0.251	0.274		ug/L		109	65 - 135		
1,2-D bromoethane	ND		0.251	0.235		ug/L		94	65 - 135		

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dibromopropane (Surr)	*105*		*60 - 140*

Lab Sample ID: 380-25483-K-1-A DU
Matrix: Water
Analysis Batch: 22648

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 22241

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2-D bromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-D bromoethane	ND			ND		ug/L				NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dibromopropane (Surr)	*113*		*60 - 140*

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 380-21407/7-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21407

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
Aldrin	ND		0.0020		ug/L		10/20/22 13:52	10/20/22 19:10	1
Chlordane (n.o.s.)	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
Dieldrin	ND		0.0020		ug/L		10/20/22 13:52	10/20/22 19:10	1
Endrin	ND		0.0099		ug/L		10/20/22 13:52	10/20/22 19:10	1
gamma-BHC (Lindane)	ND		0.0099		ug/L		10/20/22 13:52	10/20/22 19:10	1
Heptachlor	ND		0.0099		ug/L		10/20/22 13:52	10/20/22 19:10	1
Heptachlor epoxide	ND		0.0099		ug/L		10/20/22 13:52	10/20/22 19:10	1
Methoxychlor	ND		0.050		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1016	ND		0.069		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1221	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1232	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1242	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1248	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1254	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
PCB-1260	ND		0.069		ug/L		10/20/22 13:52	10/20/22 19:10	1
Polychlorinated biphenyls, Total	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1
Toxaphene	ND		0.099		ug/L		10/20/22 13:52	10/20/22 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*79*		*70 - 130*	*10/20/22 13:52*	*10/20/22 19:10*	*1*

Lab Sample ID: MRL 380-21407/2-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.00200	0.00268		ug/L		134	50 - 150		
Dieldrin			0.00200	0.00235		ug/L		118	50 - 150		

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MRL 380-21407/2-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Tetrachloro-m-xylene	83		70 - 130

Lab Sample ID: MRL 380-21407/3-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	0.100	0.0928	J	ug/L		93	50 - 150
Aldrin	0.0100	0.0105		ug/L		105	50 - 150
Dieldrin	0.0100	0.00917		ug/L		92	50 - 150
Endrin	0.0100	0.0131		ug/L		131	50 - 150
gamma-BHC (Lindane)	0.0100	0.0121		ug/L		121	50 - 150
Heptachlor	0.0100	0.0119		ug/L		119	50 - 150
Heptachlor epoxide	0.0100	0.0126		ug/L		126	50 - 150
Methoxychlor	0.0500	0.0678		ug/L		136	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Tetrachloro-m-xylene	88		70 - 130

Lab Sample ID: MRL 380-21407/4-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	0.100	0.108		ug/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Tetrachloro-m-xylene	94		70 - 130

Lab Sample ID: MRL 380-21407/5-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	0.507	0.495		ug/L		98	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Tetrachloro-m-xylene	87		70 - 130

Lab Sample ID: MRL 380-21407/6-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	0.101	0.123		ug/L		122	50 - 150

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MRL 380-21407/6-A
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Tetrachloro-m-xylene	91		70 - 130

Lab Sample ID: 380-24762-B-1-A MS
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	ND		0.997	0.852		ug/L		85	65 - 135
Aldrin	ND		0.0997	0.0941		ug/L		94	65 - 135
Dieldrin	ND		0.0997	0.0908		ug/L		91	65 - 135
Endrin	ND		0.0997	0.0876		ug/L		88	65 - 135
gamma-BHC (Lindane)	ND		0.0997	0.0815		ug/L		82	65 - 135
Heptachlor	ND		0.0997	0.0882		ug/L		88	65 - 135
Heptachlor epoxide	ND		0.0997	0.0867		ug/L		87	65 - 135
Methoxychlor	ND		0.499	0.494		ug/L		99	65 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	90		70 - 130

Lab Sample ID: 380-24762-C-1-A MS
Matrix: Water
Analysis Batch: 22249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	ND		0.499	0.492		ug/L		99	65 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	90		70 - 130

Lab Sample ID: 380-24805-1 MS
Matrix: Water
Analysis Batch: 22249

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	ND		0.199	0.173		ug/L		87	65 - 135
Aldrin	ND		0.0199	0.0189		ug/L		95	65 - 135
Dieldrin	0.0054		0.0199	0.0214		ug/L		80	65 - 135
Endrin	ND		0.0199	0.0202		ug/L		101	65 - 135
gamma-BHC (Lindane)	ND		0.0199	0.0187		ug/L		94	65 - 135
Heptachlor	ND		0.0199	0.0194		ug/L		97	65 - 135
Heptachlor epoxide	ND		0.0199	0.0204		ug/L		102	65 - 135
Methoxychlor	ND		0.0997	0.106		ug/L		106	65 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	89		70 - 130

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: 380-24805-1 MS
Matrix: Water
Analysis Batch: 22249

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	ND		2.51	2.45		ug/L		98	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-21137/4
Matrix: Water
Analysis Batch: 21137

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050		mg/L			10/18/22 09:42	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/18/22 09:42	1
Nitrite as N	ND		0.050		mg/L			10/18/22 09:42	1

Lab Sample ID: MB 380-21137/41
Matrix: Water
Analysis Batch: 21137

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050		mg/L			10/18/22 19:53	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/18/22 19:53	1
Nitrite as N	ND		0.050		mg/L			10/18/22 19:53	1

Lab Sample ID: LCS 380-21137/7
Matrix: Water
Analysis Batch: 21137

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N			2.50	2.52		mg/L		101	90 - 110
Nitrate Nitrite as N			3.50	3.50		mg/L		100	90 - 110
Nitrite as N			1.00	0.981		mg/L		98	90 - 110

Lab Sample ID: LCSD 380-21137/8
Matrix: Water
Analysis Batch: 21137

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			2.50	2.53		mg/L		101	90 - 110	1	20
Nitrate Nitrite as N			3.50	3.51		mg/L		100	90 - 110	0	20
Nitrite as N			1.00	0.984		mg/L		98	90 - 110	0	20

Lab Sample ID: MRL 380-21137/42
Matrix: Water
Analysis Batch: 21137

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N			0.0125	0.0129	J	mg/L		103	50 - 150

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 380-21137/42
Matrix: Water
Analysis Batch: 21137

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.0250	0.0239	J	mg/L		96	50 - 150
Nitrite as N	0.0125	0.0110	J	mg/L		88	50 - 150

Lab Sample ID: MRL 380-21137/5
Matrix: Water
Analysis Batch: 21137

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0104	J	mg/L		83	50 - 150
Nitrate Nitrite as N	0.0250	0.0200	J	mg/L		80	50 - 150
Nitrite as N	0.0125	0.00956	J	mg/L		76	50 - 150

Lab Sample ID: MRL 380-21137/6
Matrix: Water
Analysis Batch: 21137

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0576		mg/L		115	50 - 150
Nitrate Nitrite as N	0.100	0.104		mg/L		104	50 - 150
Nitrite as N	0.0500	0.0465	J	mg/L		93	50 - 150

Lab Sample ID: 380-24805-1 MS
Matrix: Water
Analysis Batch: 21137

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.49		2.50	3.03		mg/L		102	80 - 120
Nitrate Nitrite as N	0.49		3.50	3.89		mg/L		97	80 - 120
Nitrite as N	ND		1.00	0.858		mg/L		86	80 - 120

Lab Sample ID: 380-24805-1 MSD
Matrix: Water
Analysis Batch: 21137

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.49		2.50	3.03		mg/L		101	80 - 120	0	20
Nitrate Nitrite as N	0.49		3.50	3.88		mg/L		97	80 - 120	0	20
Nitrite as N	ND		1.00	0.853		mg/L		85	80 - 120	1	20

Lab Sample ID: MB 380-21138/4
Matrix: Water
Analysis Batch: 21138

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/18/22 09:42	1
Sulfate	ND		0.25		mg/L			10/18/22 09:42	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 380-21138/41
Matrix: Water
Analysis Batch: 21138

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/18/22 19:53	1
Sulfate	ND		0.25		mg/L			10/18/22 19:53	1

Lab Sample ID: LCS 380-21138/7
Matrix: Water
Analysis Batch: 21138

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	25.3		mg/L		101	90 - 110		
Sulfate			50.0	51.6		mg/L		103	90 - 110		

Lab Sample ID: LCSD 380-21138/8
Matrix: Water
Analysis Batch: 21138

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			25.0	25.4		mg/L		102	90 - 110	1	20
Sulfate			50.0	51.9		mg/L		104	90 - 110	1	20

Lab Sample ID: MRL 380-21138/42
Matrix: Water
Analysis Batch: 21138

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.125	0.100	J	mg/L		80	50 - 150		
Sulfate			0.250	0.229	J	mg/L		92	50 - 150		

Lab Sample ID: MRL 380-21138/5
Matrix: Water
Analysis Batch: 21138

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.125	0.105	J	mg/L		84	50 - 150		
Sulfate			0.250	0.222	J	mg/L		89	50 - 150		

Lab Sample ID: MRL 380-21138/6
Matrix: Water
Analysis Batch: 21138

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.420	J	mg/L		84	50 - 150		
Sulfate			1.00	0.893		mg/L		89	50 - 150		

Lab Sample ID: 380-24805-1 MS
Matrix: Water
Analysis Batch: 21138

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	71		25.0	94.3		mg/L		94	80 - 120		
Sulfate	9.7		50.0	62.4		mg/L		105	80 - 120		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 380-24805-1 MSD
Matrix: Water
Analysis Batch: 21138

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	71		25.0	94.4		mg/L		94	80 - 120	0	20
Sulfate	9.7		50.0	62.5		mg/L		106	80 - 120	0	20

Lab Sample ID: MB 380-21948/4
Matrix: Water
Analysis Batch: 21948

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.0		ug/L			10/24/22 20:23	1

Lab Sample ID: LCS 380-21948/5
Matrix: Water
Analysis Batch: 21948

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			100	100		ug/L		100	90 - 110		

Lab Sample ID: LCSD 380-21948/6
Matrix: Water
Analysis Batch: 21948

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide			100	100		ug/L		100	90 - 110	0	10

Lab Sample ID: MRL 380-21948/3
Matrix: Water
Analysis Batch: 21948

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			5.00	4.94	J	ug/L		99	75 - 125		

Lab Sample ID: 380-25485-A-1 MS
Matrix: Water
Analysis Batch: 21948

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	5.5		50.0	56.1		ug/L		101	80 - 120		

Lab Sample ID: 380-25485-A-1 MSD
Matrix: Water
Analysis Batch: 21948

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	5.5		50.0	56.9		ug/L		103	80 - 120	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 380-21742/18
Matrix: Water
Analysis Batch: 21742

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0		mg/L			10/24/22 13:45	1
Magnesium	ND		0.10		mg/L			10/24/22 13:45	1
Potassium	ND		1.0		mg/L			10/24/22 13:45	1
Sodium	ND		1.0		mg/L			10/24/22 13:45	1

Lab Sample ID: LCS 380-21742/20
Matrix: Water
Analysis Batch: 21742

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50.0	51.0		mg/L		102	85 - 115		
Magnesium			20.0	20.2		mg/L		101	85 - 115		
Potassium			20.0	20.0		mg/L		100	85 - 115		
Sodium			50.0	50.5		mg/L		101	85 - 115		

Lab Sample ID: LCSD 380-21742/21
Matrix: Water
Analysis Batch: 21742

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			50.0	50.9		mg/L		102	85 - 115	0	20
Magnesium			20.0	20.2		mg/L		101	85 - 115	0	20
Potassium			20.0	20.1		mg/L		101	85 - 115	1	20
Sodium			50.0	50.3		mg/L		101	85 - 115	0	20

Lab Sample ID: LLCS 380-21742/19
Matrix: Water
Analysis Batch: 21742

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			1.00	1.05		mg/L		105	50 - 150		
Magnesium			0.100	0.105		mg/L		105	50 - 150		
Potassium			1.00	0.685	J	mg/L		68	50 - 150		
Sodium			1.00	1.12		mg/L		112	50 - 150		

Lab Sample ID: 380-24710-C-39 MS
Matrix: Water
Analysis Batch: 21742

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	69		50.0	120		mg/L		101	70 - 130		
Magnesium	25		20.0	45.0		mg/L		100	70 - 130		
Potassium	4.6		20.0	26.6		mg/L		110	70 - 130		
Sodium	92		50.0	138		mg/L		92	70 - 130		

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 380-24710-C-39 MSD
Matrix: Water
Analysis Batch: 21742

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	69		50.0	120		mg/L		100	70 - 130	0	20
Magnesium	25		20.0	45.1		mg/L		101	70 - 130	0	20
Potassium	4.6		20.0	26.4		mg/L		109	70 - 130	1	20
Sodium	92		50.0	139		mg/L		93	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-21413/1-A
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Arsenic	ND		1.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Beryllium	ND		1.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Cadmium	ND		0.50		ug/L		10/20/22 14:15	10/21/22 14:38	1
Chromium	ND		1.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Copper	ND		2.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Lead	ND		0.50		ug/L		10/20/22 14:15	10/21/22 14:38	1
Nickel	ND		5.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Selenium	ND		5.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Silver	ND		0.50		ug/L		10/20/22 14:15	10/21/22 14:38	1
Thallium	ND		1.0		ug/L		10/20/22 14:15	10/21/22 14:38	1
Zinc	ND		20		ug/L		10/20/22 14:15	10/21/22 14:38	1

Lab Sample ID: LCS 380-21413/3-A
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	52.5		ug/L		105	85 - 115
Arsenic	50.0	50.6		ug/L		101	85 - 115
Beryllium	25.0	25.3		ug/L		101	85 - 115
Cadmium	25.0	25.7		ug/L		103	85 - 115
Chromium	50.0	51.9		ug/L		104	85 - 115
Copper	50.0	52.2		ug/L		104	85 - 115
Lead	50.0	52.5		ug/L		105	85 - 115
Nickel	50.0	51.0		ug/L		102	85 - 115
Selenium	50.0	53.5		ug/L		107	85 - 115
Silver	25.0	22.0		ug/L		88	85 - 115
Thallium	50.0	52.0		ug/L		104	85 - 115
Zinc	50.0	51.7		ug/L		103	85 - 115

Lab Sample ID: LCSD 380-21413/4-A
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	50.0	51.9		ug/L		104	85 - 115	1	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 380-21413/4-A
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	50.0	51.6		ug/L		103	85 - 115	2	20
Beryllium	25.0	24.9		ug/L		100	85 - 115	2	20
Cadmium	25.0	25.8		ug/L		103	85 - 115	0	20
Chromium	50.0	52.9		ug/L		106	85 - 115	2	20
Copper	50.0	53.0		ug/L		106	85 - 115	2	20
Lead	50.0	52.9		ug/L		106	85 - 115	1	20
Nickel	50.0	51.5		ug/L		103	85 - 115	1	20
Selenium	50.0	54.2		ug/L		108	85 - 115	1	20
Silver	25.0	22.7		ug/L		91	85 - 115	3	20
Thallium	50.0	51.8		ug/L		104	85 - 115	0	20
Zinc	50.0	52.4		ug/L		105	85 - 115	1	20

Lab Sample ID: LLCS 380-21413/2-A
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.945	J	ug/L		95	50 - 150
Arsenic	1.00	1.02		ug/L		102	50 - 150
Beryllium	1.00	0.935	J	ug/L		94	50 - 150
Cadmium	0.500	0.481	J	ug/L		96	50 - 150
Chromium	1.00	1.04		ug/L		104	50 - 150
Copper	2.00	2.03		ug/L		101	50 - 150
Lead	0.500	0.488	J	ug/L		98	50 - 150
Nickel	5.00	4.75	J	ug/L		95	50 - 150
Selenium	5.00	4.98	J	ug/L		100	50 - 150
Silver	0.500	0.405	J	ug/L		81	50 - 150
Thallium	1.00	0.977	J	ug/L		98	50 - 150
Zinc	20.0	19.8	J	ug/L		99	50 - 150

Lab Sample ID: 380-24931-Q-1-A MSD
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		50.0	53.5		ug/L		107	70 - 130	1	20
Arsenic	2.5		50.0	55.1		ug/L		105	70 - 130	1	20
Beryllium	ND		25.0	26.6		ug/L		106	70 - 130	2	20
Cadmium	ND		25.0	25.6		ug/L		102	70 - 130	0	20
Chromium	12		50.0	61.3		ug/L		98	70 - 130	0	20
Copper	ND		50.0	49.6		ug/L		98	70 - 130	1	20
Lead	ND		50.0	51.4		ug/L		103	70 - 130	1	20
Nickel	ND		50.0	53.1		ug/L		98	70 - 130	2	20
Selenium	8.4		50.0	62.1		ug/L		107	70 - 130	2	20
Silver	ND		25.0	20.8		ug/L		82	70 - 130	0	20
Thallium	ND		50.0	51.9		ug/L		104	70 - 130	4	20
Zinc	ND		50.0	54.1		ug/L		108	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 380-24931-AK-1-A MS
Matrix: Water
Analysis Batch: 21591

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 21413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		50.0	53.8		ug/L		108	70 - 130
Arsenic	2.5		50.0	54.5		ug/L		104	70 - 130
Beryllium	ND		25.0	26.1		ug/L		104	70 - 130
Cadmium	ND		25.0	25.5		ug/L		102	70 - 130
Chromium	12		50.0	61.3		ug/L		98	70 - 130
Copper	ND		50.0	49.0		ug/L		97	70 - 130
Lead	ND		50.0	50.7		ug/L		101	70 - 130
Nickel	ND		50.0	52.3		ug/L		96	70 - 130
Selenium	8.4		50.0	61.1		ug/L		105	70 - 130
Silver	ND		25.0	20.8		ug/L		83	70 - 130
Thallium	ND		50.0	49.8		ug/L		100	70 - 130
Zinc	ND		50.0	53.6		ug/L		107	70 - 130

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 810-37635/1-A
Matrix: Water
Analysis Batch: 37693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37635

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		ug/L		11/07/22 10:10	11/07/22 15:03	1

Lab Sample ID: LCS 810-37635/3-A
Matrix: Water
Analysis Batch: 37693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			1.00	1.10		ug/L		110	85 - 115

Lab Sample ID: LLCS 810-37635/2-A
Matrix: Water
Analysis Batch: 37693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37635

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.100	0.137		ug/L		137	50 - 150

Lab Sample ID: 380-24931-AX-1-B MSD
Matrix: Water
Analysis Batch: 37693

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 37635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		1.00	1.03		ug/L		103	70 - 130	8	20

Lab Sample ID: 380-24931-BR-1-B MS
Matrix: Water
Analysis Batch: 37693

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 37635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		1.00	1.11		ug/L		111	70 - 130

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 380-22035/7
Matrix: Water
Analysis Batch: 22035

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
A kalinity	ND		2.0		mg/L			10/25/22 21:17	1
Bicarbonate Alkalinity as CaCO3	2.44	B	2.0		mg/L			10/25/22 21:17	1
Carbonate Alkalinity as CaCO3	ND		2.0		mg/L			10/25/22 21:17	1

Lab Sample ID: LCS 380-22035/5
Matrix: Water
Analysis Batch: 22035

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
A kalinity			100	80.9	*-	mg/L		81	90 - 110		

Lab Sample ID: LCSD 380-22035/22
Matrix: Water
Analysis Batch: 22035

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
A kalinity			100	99.0		mg/L		99	90 - 110	20	20

Lab Sample ID: LLCS 380-22035/6
Matrix: Water
Analysis Batch: 22035

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
A kalinity			20.0	17.1	*-	mg/L		85	90 - 110		

Lab Sample ID: MRL 380-22035/8
Matrix: Water
Analysis Batch: 22035

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
A kalinity			2.00	2.68		mg/L		134	50 - 150		

Lab Sample ID: 380-24662-C-1 MS
Matrix: Water
Analysis Batch: 22035

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
A kalinity			100	142		mg/L					

Lab Sample ID: 380-24662-C-1 MSD
Matrix: Water
Analysis Batch: 22035

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
A kalinity			100	143		mg/L					

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 380-24662-C-1 DU
Matrix: Water
Analysis Batch: 22035

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
A kalinity				119	*-	mg/L					
Bicarbonate Alkalinity as CaCO3				119	B	mg/L					
Carbonate Alkalinity as CaCO3				ND		mg/L					

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 380-22036/7
Matrix: Water
Analysis Batch: 22036

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0		umhos/cm			10/25/22 21:17	1

Lab Sample ID: LCS 380-22036/10
Matrix: Water
Analysis Batch: 22036

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1000	1000		umhos/cm		100	90 - 110		

Lab Sample ID: LCSD 380-22036/22
Matrix: Water
Analysis Batch: 22036

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance			1000	996		umhos/cm		100	90 - 110	0	10

Lab Sample ID: MRL 380-22036/8
Matrix: Water
Analysis Batch: 22036

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			2.00	1.90	J	umhos/cm		95	50 - 150		

Lab Sample ID: 380-24662-C-1 DU
Matrix: Water
Analysis Batch: 22036

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	970			966		umhos/cm				0.09	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-21094/1
Matrix: Water
Analysis Batch: 21094

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			10/18/22 16:10	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: HLCS 380-21094/5
Matrix: Water
Analysis Batch: 21094

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	700		mg/L		100	80 - 114

Lab Sample ID: LCS 380-21094/4
Matrix: Water
Analysis Batch: 21094

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	168		mg/L		96	80 - 114

Lab Sample ID: MRL 380-21094/2
Matrix: Water
Analysis Batch: 21094

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	10.0		mg/L		100	50 - 150

Lab Sample ID: MRL 380-21094/3
Matrix: Water
Analysis Batch: 21094

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	11.0		mg/L		110	50 - 150

Lab Sample ID: 380-24662-G-1 DU
Matrix: Water
Analysis Batch: 21094

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	620		610		mg/L		2	10

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 380-22034/40
Matrix: Water
Analysis Batch: 22034

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.050	mg/L			10/25/22 23:28	1

Lab Sample ID: MB 380-22034/6
Matrix: Water
Analysis Batch: 22034

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.050	mg/L			10/25/22 20:48	1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 380-22034/42
Matrix: Water
Analysis Batch: 22034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.07		mg/L		107	90 - 110

Lab Sample ID: LCS 380-22034/8
Matrix: Water
Analysis Batch: 22034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: LCSD 380-22034/43
Matrix: Water
Analysis Batch: 22034

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.00	1.04		mg/L					

Lab Sample ID: LCSD 380-22034/9
Matrix: Water
Analysis Batch: 22034

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.00	1.02		mg/L		102	90 - 110	6	10

Lab Sample ID: MRL 380-22034/41
Matrix: Water
Analysis Batch: 22034

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.0500	0.0476	J	mg/L		95	50 - 150

Lab Sample ID: MRL 380-22034/7
Matrix: Water
Analysis Batch: 22034

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.0500	0.0506		mg/L		101	50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 380-22037/9
Matrix: Water
Analysis Batch: 22037

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	6.3				SU			10/25/22 21:17	1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: LCS 380-22037/10
Matrix: Water
Analysis Batch: 22037

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			6.00	5.9		SU		98	98 - 102		

Lab Sample ID: LCSD 380-22037/23
Matrix: Water
Analysis Batch: 22037

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			6.00	5.9		SU		98	98 - 102	0	2

Lab Sample ID: 380-24662-C-1 DU
Matrix: Water
Analysis Batch: 22037

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.9			8.0		SU				0.9	2

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 380-21120/1
Matrix: Water
Analysis Batch: 21120

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050		mg/L			10/18/22 20:31	1

Lab Sample ID: LCS 380-21120/4
Matrix: Water
Analysis Batch: 21120

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			0.250	0.240		mg/L		96	90 - 110		

Lab Sample ID: LCSD 380-21120/11
Matrix: Water
Analysis Batch: 21120

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			0.250	0.235		mg/L		94	90 - 110	2	20

Lab Sample ID: MRL 380-21120/10
Matrix: Water
Analysis Batch: 21120

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			0.0500	0.0530		mg/L		106	50 - 150		

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: MRL 380-21120/2
Matrix: Water
Analysis Batch: 21120

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			0.0500	0.0560		mg/L		112	50 - 150		

Lab Sample ID: 810-41254-AD-1 MS
Matrix: Water
Analysis Batch: 21120

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	ND		0.250	0.205		mg/L		82	80 - 120		

Lab Sample ID: 810-41254-AD-1 MSD
Matrix: Water
Analysis Batch: 21120

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.250	0.205		mg/L		82	80 - 120	0	20

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

Lab Sample ID: 100921-B1
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: O-40006_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
1-Methylphenanthrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,4,5-Trichlorophenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,4,6-Trichlorophenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,4-Dichlorophenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,4-Dinitrophenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,6-Dichlorophenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,6-Di-tert-butyl-4-methylphenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2,6-Di-tert-butylphenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Chloronaphthalene	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Chlorophenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Methyl-4,6-dinitrophenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Methylnaphthalene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Methylphenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Nitroaniline	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
2-Nitrophenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
3+4-Methylphenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
3-Nitroaniline	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
4-Bromophenylphenyl ether	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
4-Chloro-3-methylphenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
4-Chloroaniline	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
4-Chlorophenylphenyl ether	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
4-Nitroaniline	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
4-Nitrophenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1

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

Lab Sample ID: 100921-B1
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: O-40006_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6-tert-butyl-2,4-dimethylphenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Acenaphthene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Acenaphthylene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Aniline	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Anthracene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benz[a]anthracene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzidine	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzo[a]pyrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzo[b]fluoranthene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzo[e]pyrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzo[g,h,i]perylene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzo[k]fluoranthene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzoic Acid	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
Benzyl Alcohol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
Biphenyl	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Bis(2-Chloroethoxy) methane	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Bis(2-Chloroethyl) ether	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Bis(2-Chloroisopropyl) ether	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Chrysene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Dibenz[a,h]anthracene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Dibenzofuran	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Dibenzothiophene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Disalicylidenepropanediamine	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Fluoranthene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Fluorene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Hexachloroethane	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Naphthalene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Nitrobenzene	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
N-Nitrosodi-n-propylamine	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
N-Nitrosodiphenylamine	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Pentachlorophenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Perylene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Phenanthrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1
Phenol	ND		0.2	0.1	µg/L		10/18/22 00:00	11/13/22 18:11	1
p-tert-Butylphenol	ND		0.1	0.05	µg/L		10/18/22 00:00	11/13/22 18:11	1
Pyrene	ND		0.005	0.001	µg/L		10/18/22 00:00	11/13/22 18:11	1

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
(2,4,6-Tribromophenol)	*73*		*30 - 130*	*10/18/22 00:00*	*11/13/22 18:11*	*1*
(d10-Acenaphthene)	*92*		*27 - 133*	*10/18/22 00:00*	*11/13/22 18:11*	*1*
(d10-Phenanthrene)	*92*		*43 - 129*	*10/18/22 00:00*	*11/13/22 18:11*	*1*
(d12-Chrysene)	*82*		*52 - 144*	*10/18/22 00:00*	*11/13/22 18:11*	*1*
(d12-Perylene)	*84*		*36 - 161*	*10/18/22 00:00*	*11/13/22 18:11*	*1*
(d5-Phenol)	*115*		*0 - 130*	*10/18/22 00:00*	*11/13/22 18:11*	*1*
(d8-Naphthalene)	*91*		*25 - 125*	*10/18/22 00:00*	*11/13/22 18:11*	*1*

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

Lab Sample ID: 100921-BS1
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40006_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.5	0.404		µg/L		81	31 - 128
1-Methylphenanthrene	0.5	0.46		µg/L		92	66 - 127
2,3,5-Trimethylnaphthalene	0.5	0.425		µg/L		85	55 - 122
2,4,5-Trichlorophenol	1	0.756		µg/L		76	30 - 130
2,4,6-Trichlorophenol	1	0.778		µg/L		78	30 - 130
2,4-Dichlorophenol	1	0.787		µg/L		79	51 - 117
2,4-Dinitrophenol	1	0.495		µg/L		50	0 - 152
2,6-Dichlorophenol	1	0.783		µg/L		78	30 - 130
2,6-Dimethylnaphthalene	0.5	0.416		µg/L		83	48 - 120
2,6-Di-tert-butyl-4-methylphenol	1	0.626		µg/L		63	50 - 150
2,6-Di-tert-butylphenol	1	0.688		µg/L		69	50 - 150
2-Chloronaphthalene	1	0.827		µg/L		83	53 - 130
2-Chlorophenol	1	0.794		µg/L		79	41 - 120
2-Methyl-4,6-dinitrophenol	1	0.706		µg/L		71	0 - 141
2-Methylnaphthalene	1.5	1.29		µg/L		86	47 - 130
2-Methylphenol	1	0.898		µg/L		90	40 - 117
2-Nitroaniline	1	0.824		µg/L		82	69 - 114
2-Nitrophenol	1	0.591		µg/L		59	40 - 117
3+4-Methylphenol	1	0.804		µg/L		80	0 - 130
3-Nitroaniline	1	0.735		µg/L		74	23 - 137
4-Bromophenylphenyl ether	1	0.931		µg/L		93	61 - 132
4-Chloro-3-methylphenol	1	0.716		µg/L		72	51 - 128
4-Chloroaniline	1	1.18		µg/L		118	50 - 150
4-Chlorophenylphenyl ether	1	0.921		µg/L		92	63 - 130
4-Nitroaniline	1	1.06		µg/L		106	10 - 159
4-Nitrophenol	1	0.423		µg/L		42	10 - 164
6-tert-butyl-2,4-dimethylphenol	1	0.68		µg/L		68	50 - 150
Acenaphthene	1.5	1.34		µg/L		89	53 - 131
Acenaphthylene	1.5	1.37		µg/L		91	43 - 140
Aniline	1	1.06		µg/L		106	50 - 150
Anthracene	1.5	1.47		µg/L		98	58 - 135
Benz[a]anthracene	1.5	1.53		µg/L		102	55 - 145
Benzo[a]pyrene	1.5	1.45		µg/L		97	51 - 143
Benzo[b]fluoranthene	1.5	1.51		µg/L		101	46 - 165
Benzo[e]pyrene	0.5	0.469		µg/L		94	42 - 152
Benzo[g,h,i]perylene	1.5	1.54		µg/L		103	63 - 133
Benzo[k]fluoranthene	1.5	1.41		µg/L		94	56 - 145
Benzyl Alcohol	1	0.816		µg/L		82	43 - 148
Biphenyl	0.5	0.434		µg/L		87	56 - 119
Bis(2-Chloroethoxy) methane	1	0.875		µg/L		88	66 - 122
Bis(2-Chloroethyl) ether	1	0.802		µg/L		80	43 - 127
Bis(2-Chloroisopropyl) ether	2	1.63		µg/L		81	49 - 128
Chrysene	1.5	1.46		µg/L		97	56 - 141
Dibenz[a,h]anthracene	1.5	1.53		µg/L		102	55 - 150
Dibenzo[a,l]pyrene	0.25	0.171		µg/L		68	50 - 150
Dibenzofuran	1	0.89		µg/L		89	50 - 150
Dibenzothiophene	0.5	0.457		µg/L		91	75 - 113
Disalicylidenepropanediamine	25	20.7		µg/L		83	50 - 150

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

Lab Sample ID: 100921-BS1
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40006_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoranthene			1.5	1.59		µg/L		106	60 - 146		
Fluorene			1.5	1.42		µg/L		95	58 - 131		
Hexachloroethane			1	0.928		µg/L		93	27 - 130		
Indeno[1,2,3-cd]pyrene			1.5	1.59		µg/L		106	50 - 151		
Naphthalene			1.5	1.23		µg/L		82	41 - 126		
Nitrobenzene			1	0.845		µg/L		85	54 - 111		
N-Nitrosodi-n-propylamine			1	0.775		µg/L		77	61 - 152		
N-Nitrosodiphenylamine			1	0.81		µg/L		81	49 - 142		
Pentachlorophenol			1	0.525		µg/L		52	36 - 111		
Perylene			0.5	0.476		µg/L		95	48 - 141		
Phenanthrene			1.5	1.45		µg/L		97	67 - 127		
Phenol			1	0.779		µg/L		78	29 - 114		
p-tert-Butylphenol			1	0.798		µg/L		80	50 - 150		
Pyrene			1.5	1.6		µg/L		107	54 - 156		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
(2,4,6-Tribromophenol)	*79*		*30 - 130*
(d10-Acenaphthene)	*85*		*27 - 133*
(d10-Phenanthrene)	*91*		*43 - 129*
(d12-Chrysene)	*91*		*52 - 144*
(d12-Perylene)	*92*		*36 - 161*
(d5-Phenol)	*78*		*0 - 130*
(d8-Naphthalene)	*78*		*25 - 125*

Lab Sample ID: 100921-BS2
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40006_P

Analyte			Spike Added	LCS DUP Result	LCS DUP Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			0.5	0.383		µg/L		77	31 - 128	5	30
1-Methylphenanthrene			0.5	0.465		µg/L		93	66 - 127	1	30
2,3,5-Trimethylnaphthalene			0.5	0.366		µg/L		73	55 - 122	15	30
2,4,5-Trichlorophenol			1	0.64		µg/L		64	30 - 130	17	30
2,4,6-Trichlorophenol			1	0.703		µg/L		70	30 - 130	11	30
2,4-Dichlorophenol			1	0.649		µg/L		65	51 - 117	19	30
2,4-Dinitrophenol			1	0.533		µg/L		53	0 - 152	6	30
2,6-Dichlorophenol			1	0.676		µg/L		68	30 - 130	14	30
2,6-Dimethylnaphthalene			0.5	0.399		µg/L		80	48 - 120	4	30
2,6-Di-tert-butyl-4-methylphenol			1	0.513		µg/L		51	50 - 150	21	30
2,6-Di-tert-butylphenol			1	0.598		µg/L		60	50 - 150	14	30
2-Chloronaphthalene			1	0.774		µg/L		77	53 - 130	8	30
2-Chlorophenol			1	0.629		µg/L		63	41 - 120	23	30
2-Methyl-4,6-dinitrophenol			1	0.743		µg/L		74	0 - 141	4	30
2-Methylnaphthalene			1.5	1.15		µg/L		77	47 - 130	11	30
2-Methylphenol			1	0.769		µg/L		77	40 - 117	16	30
2-Nitroaniline			1	0.815		µg/L		81	69 - 114	0	30
2-Nitrophenol			1	0.528		µg/L		53	40 - 117	11	30
3+4-Methylphenol			1	0.642		µg/L		64	0 - 130	22	30

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

Lab Sample ID: 100921-BS2
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40006_P

Analyte			Spike Added	LCS DUP Result	LCS DUP Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3-Nitroaniline			1	0.63		µg/L		63	23 - 137	16	30
4-Bromophenylphenyl ether			1	0.917		µg/L		92	61 - 132	1	30
4-Chloro-3-methylphenol			1	0.673		µg/L		67	51 - 128	7	30
4-Chloroaniline			1	0.989		µg/L		99	50 - 150	18	30
4-Chlorophenylphenyl ether			1	0.788		µg/L		79	63 - 130	15	30
4-Nitroaniline			1	1.06		µg/L		106	10 - 159	0	30
4-Nitrophenol			1	0.375		µg/L		38	10 - 164	10	30
6-tert-butyl-2,4-dimethylphenol			1	0.671		µg/L		67	50 - 150	1	30
Acenaphthene			1.5	1.13		µg/L		75	53 - 131	17	30
Acenaphthylene			1.5	1.17		µg/L		78	43 - 140	15	30
Aniline			1	0.889		µg/L		89	50 - 150	17	30
Anthracene			1.5	1.52		µg/L		101	58 - 135	3	30
Benz[a]anthracene			1.5	1.55		µg/L		103	55 - 145	1	30
Benzo[a]pyrene			1.5	1.53		µg/L		102	51 - 143	5	30
Benzo[b]fluoranthene			1.5	1.53		µg/L		102	46 - 165	1	30
Benzo[e]pyrene			0.5	0.487		µg/L		97	42 - 152	3	30
Benzo[g,h,i]perylene			1.5	1.57		µg/L		105	63 - 133	2	30
Benzo[k]fluoranthene			1.5	1.42		µg/L		95	56 - 145	1	30
Benzyl Alcohol			1	0.625		µg/L		62	43 - 148	28	30
Biphenyl			0.5	0.418		µg/L		84	56 - 119	4	30
Bis(2-Chloroethoxy) methane			1	0.723		µg/L		72	66 - 122	20	30
Bis(2-Chloroethyl) ether			1	0.611		µg/L		61	43 - 127	27	30
Bis(2-Chloroisopropyl) ether			2	1.24		µg/L		62	49 - 128	28	30
Chrysene			1.5	1.46		µg/L		97	56 - 141	0	30
Dibenz[a,h]anthracene			1.5	1.58		µg/L		105	55 - 150	3	30
Dibenzo[a,l]pyrene			0.25	0.185		µg/L		74	50 - 150	8	30
Dibenzofuran			1	0.689		µg/L		69	50 - 150	25	30
Dibenzothiophene			0.5	0.478		µg/L		96	75 - 113	5	30
Disalicylidenepropanediamine			25	24		µg/L		96	50 - 150	15	30
Fluoranthene			1.5	1.63		µg/L		109	60 - 146	3	30
Fluorene			1.5	1.25		µg/L		83	58 - 131	13	30
Hexachloroethane			1	0.715		µg/L		71	27 - 130	25	30
Indeno[1,2,3-cd]pyrene			1.5	1.67		µg/L		111	50 - 151	5	30
Naphthalene			1.5	1.06		µg/L		71	41 - 126	14	30
Nitrobenzene			1	0.656		µg/L		66	54 - 111	24	30
N-Nitrosodi-n-propylamine			1	0.662		µg/L		66	61 - 152	17	30
N-Nitrosodiphenylamine			1	0.775		µg/L		77	49 - 142	4	30
Pentachlorophenol			1	0.563		µg/L		56	36 - 111	7	30
Perylene			0.5	0.505		µg/L		101	48 - 141	6	30
Phenanthrene			1.5	1.48		µg/L		99	67 - 127	2	30
Phenol			1	0.59		µg/L		59	29 - 114	28	30
p-tert-Butylphenol			1	0.718		µg/L		72	50 - 150	11	30
Pyrene			1.5	1.6		µg/L		107	54 - 156	0	30

Surrogate	*LCS DUP %Recovery*	*LCS DUP Qualifier*	*Limits*
(2,4,6-Tribromophenol)	*77*		*30 - 130*
(d10-Acenaphthene)	*71*		*27 - 133*
(d10-Phenanthrene)	*93*		*43 - 129*

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

Lab Sample ID: 100921-BS2
Matrix: BlankMatrix
Analysis Batch: O-40006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40006_P

Surrogate	*LCS DUP %Recovery*	*LCS DUP Qualifier*	*Limits*
(d12-Chrysene)	*93*		*52 - 144*
(d12-Perylene)	*97*		*36 - 161*
(d5-Phenol)	*60*		*0 - 130*
(d8-Naphthalene)	*68*		*25 - 125*

Method: 8015 Ethanol - SW846 8015B Gasoline Range Organics

Lab Sample ID: 22MEJ004WB
Matrix: WATER
Analysis Batch: 22MEJ004W

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ETHANOL	ND	U	2000		ug/L			10/21/22 13:33	1

Lab Sample ID: 22MEJ004WL
Matrix: WATER
Analysis Batch: 22MEJ004W

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
ETHANOL	10000	10300		ug/L		103	60 - 130

Lab Sample ID: 22J272-01M
Matrix: WATER
Analysis Batch: 22MEJ004W

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
ETHANOL	ND		10000	10000		ug/L		100	60 - 130

Lab Sample ID: 22J272-01S
Matrix: WATER
Analysis Batch: 22MEJ004W

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
ETHANOL	ND		10000	11100		ug/L		111	60 - 130	10	30

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

Lab Sample ID: 22VGH7J11B
Matrix: WATER
Analysis Batch: 22VGH7J11

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.020		mg/L			10/21/22 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOFLUOROBENZENE					*10/21/22 12:47*	*1*

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

Lab Sample ID: 22VGH7J11L
Matrix: WATER
Analysis Batch: 22VGH7J11

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
GASOLINE			0.500	0.453		mg/L		91	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BROMOFLUOROBENZENE	*110*		*70 - 130*

Lab Sample ID: 22J272-01M
Matrix: WATER
Analysis Batch: 22VGH7J11

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
GASOLINE	ND		0.500	0.478		mg/L		96	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
BROMOFLUOROBENZENE	*115*		*60 - 140*

Lab Sample ID: 22J272-01S
Matrix: WATER
Analysis Batch: 22VGH7J11

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GASOLINE	ND		0.500	0.464		mg/L		93	50 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
BROMOFLUOROBENZENE	*117*		*60 - 140*

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

Lab Sample ID: 22DSJ049WB
Matrix: WATER
Analysis Batch: 22DSJ049W

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.025		mg/L			10/24/22 19:18	1
JP5	ND	U	0.050		mg/L			10/24/22 19:18	1
JP8	ND	U	0.050		mg/L			10/24/22 19:18	1
MOTOR OIL	ND	U	0.050		mg/L			10/24/22 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOBENZENE					*10/24/22 19:18*	*1*
HEXACOSANE					*10/24/22 19:18*	*1*

Lab Sample ID: 22DSJ049WL
Matrix: WATER
Analysis Batch: 22DSJ049W

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	2.70		mg/L		108	50 - 130		

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

Lab Sample ID: 22DSJ049WL
Matrix: WATER
Analysis Batch: 22DSJ049W

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BROMOBENZENE	*103*		*60 - 130*
HEXACOSANE	*99*		*60 - 130*

Lab Sample ID: 22J5J049WL
Matrix: WATER
Analysis Batch: 22DSJ049W

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	2.20		mg/L		88	30 - 160		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BROMOBENZENE	*102*		*60 - 130*
HEXACOSANE	*94*		*60 - 130*

Lab Sample ID: 22J8J049WL
Matrix: WATER
Analysis Batch: 22DSJ049W

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	2.50		mg/L		100	30 - 160		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BROMOBENZENE	*99*		*60 - 130*
HEXACOSANE	*101*		*60 - 130*

GC/MS VOA

Analysis Batch: 21167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-21167/8	Method Blank	Total/NA	Water	524.2	
LCS 380-21167/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-21167/5	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-21167/3	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-21167/7	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 21256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	524.2	
MB 380-21256/5	Method Blank	Total/NA	Water	524.2	
LCS 380-21256/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-21256/4	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 21441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	524.2	
MB 380-21441/5	Method Blank	Total/NA	Water	524.2	
LCS 380-21441/2	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-21441/3	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-21441/4	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 21526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	524.2	
MB 380-21526/15	Method Blank	Total/NA	Water	524.2	
LCS 380-21526/11	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-21526/12	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-21526/10	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-21526/14	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 22279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	524.2	
MB 380-22279/5	Method Blank	Total/NA	Water	524.2	
LCS 380-22279/2	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-22279/3	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-22279/4	Lab Control Sample	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 21477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	525.2	
MB 380-21477/1-A	Method Blank	Total/NA	Water	525.2	
LCS 380-21477/3-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-21477/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-21477/2-A	Lab Control Sample	Total/NA	Water	525.2	
380-24730-AK-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-24799-E-1-A DU	Duplicate	Total/NA	Water	525.2	

GC/MS Semi VOA

Analysis Batch: 21699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	525.2	21477
MB 380-21477/1-A	Method Blank	Total/NA	Water	525.2	21477
LCS 380-21477/3-A	Lab Control Sample	Total/NA	Water	525.2	21477
LCSD 380-21477/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	21477
MRL 380-21477/2-A	Lab Control Sample	Total/NA	Water	525.2	21477
380-24730-AK-1-A MS	Matrix Spike	Total/NA	Water	525.2	21477
380-24799-E-1-A DU	Duplicate	Total/NA	Water	525.2	21477

GC Semi VOA

Prep Batch: 21364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	504.1	
MBL 380-21364/4-A	Method Blank	Total/NA	Water	504.1	
LCS 380-21364/3-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-21364/1-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-21364/2-A	Lab Control Sample	Total/NA	Water	504.1	
380-23978-F-1-A MS	Matrix Spike	Total/NA	Water	504.1	
380-23978-M-2-A DU	Duplicate	Total/NA	Water	504.1	

Prep Batch: 21407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	505	
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	505	
MB 380-21407/7-A	Method Blank	Total/NA	Water	505	
MRL 380-21407/2-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-21407/3-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-21407/4-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-21407/5-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-21407/6-A	Lab Control Sample	Total/NA	Water	505	
380-24762-B-1-A MS	Matrix Spike	Total/NA	Water	505	
380-24762-C-1-A MS	Matrix Spike	Total/NA	Water	505	
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	505	
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	505	

Analysis Batch: 21577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	504.1	21364
MBL 380-21364/4-A	Method Blank	Total/NA	Water	504.1	21364
LCS 380-21364/3-A	Lab Control Sample	Total/NA	Water	504.1	21364
MRL 380-21364/1-A	Lab Control Sample	Total/NA	Water	504.1	21364
MRL 380-21364/2-A	Lab Control Sample	Total/NA	Water	504.1	21364
380-23978-F-1-A MS	Matrix Spike	Total/NA	Water	504.1	21364
380-23978-M-2-A DU	Duplicate	Total/NA	Water	504.1	21364

Prep Batch: 22241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	504.1	
MBL 380-22241/12-A	Method Blank	Total/NA	Water	504.1	
LCS 380-22241/11-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-22241/10-A	Lab Control Sample	Total/NA	Water	504.1	

GC Semi VOA (Continued)

Prep Batch: 22241 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-22241/9-A	Lab Control Sample	Total/NA	Water	504.1	
380-24862-K-1-A MS	Matrix Spike	Total/NA	Water	504.1	
380-25483-K-1-A DU	Duplicate	Total/NA	Water	504.1	

Analysis Batch: 22249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	505	21407
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	505	21407
MB 380-21407/7-A	Method Blank	Total/NA	Water	505	21407
MRL 380-21407/2-A	Lab Control Sample	Total/NA	Water	505	21407
MRL 380-21407/3-A	Lab Control Sample	Total/NA	Water	505	21407
MRL 380-21407/4-A	Lab Control Sample	Total/NA	Water	505	21407
MRL 380-21407/5-A	Lab Control Sample	Total/NA	Water	505	21407
MRL 380-21407/6-A	Lab Control Sample	Total/NA	Water	505	21407
380-24762-B-1-A MS	Matrix Spike	Total/NA	Water	505	21407
380-24762-C-1-A MS	Matrix Spike	Total/NA	Water	505	21407
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	505	21407
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	505	21407

Analysis Batch: 22648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	504.1	22241
MBL 380-22241/12-A	Method Blank	Total/NA	Water	504.1	22241
LCS 380-22241/11-A	Lab Control Sample	Total/NA	Water	504.1	22241
MRL 380-22241/10-A	Lab Control Sample	Total/NA	Water	504.1	22241
MRL 380-22241/9-A	Lab Control Sample	Total/NA	Water	504.1	22241
380-24862-K-1-A MS	Matrix Spike	Total/NA	Water	504.1	22241
380-25483-K-1-A DU	Duplicate	Total/NA	Water	504.1	22241

HPLC/IC

Analysis Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	
MB 380-21137/4	Method Blank	Total/NA	Water	300.0	
MB 380-21137/41	Method Blank	Total/NA	Water	300.0	
LCS 380-21137/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-21137/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-21137/42	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-21137/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-21137/6	Lab Control Sample	Total/NA	Water	300.0	
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	
380-24805-1 MSD	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	

Analysis Batch: 21138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	
MB 380-21138/4	Method Blank	Total/NA	Water	300.0	
MB 380-21138/41	Method Blank	Total/NA	Water	300.0	
LCS 380-21138/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-21138/8	Lab Control Sample Dup	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 21138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-21138/42	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-21138/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-21138/6	Lab Control Sample	Total/NA	Water	300.0	
380-24805-1 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	
380-24805-1 MSD	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	

Analysis Batch: 21948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	300.0	
MB 380-21948/4	Method Blank	Total/NA	Water	300.0	
LCS 380-21948/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-21948/6	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-21948/3	Lab Control Sample	Total/NA	Water	300.0	
380-25485-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-25485-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 21413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total Recoverable	Water	200.8	
MB 380-21413/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-21413/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-21413/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-21413/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
380-24931-Q-1-A MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
380-24931-AK-1-A MS	Matrix Spike	Total Recoverable	Water	200.8	

Analysis Batch: 21591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total Recoverable	Water	200.8	21413
MB 380-21413/1-A	Method Blank	Total Recoverable	Water	200.8	21413
LCS 380-21413/3-A	Lab Control Sample	Total Recoverable	Water	200.8	21413
LCSD 380-21413/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	21413
LLCS 380-21413/2-A	Lab Control Sample	Total Recoverable	Water	200.8	21413
380-24931-Q-1-A MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	21413
380-24931-AK-1-A MS	Matrix Spike	Total Recoverable	Water	200.8	21413

Analysis Batch: 21742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	200.7 Rev 4.4	
MB 380-21742/18	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 380-21742/20	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LCSD 380-21742/21	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	
LLCS 380-21742/19	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
380-24710-C-39 MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	
380-24710-C-39 MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	

Prep Batch: 37635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 37635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-37635/1-A	Method Blank	Total/NA	Water	245.1	
LCS 810-37635/3-A	Lab Control Sample	Total/NA	Water	245.1	
LLCS 810-37635/2-A	Lab Control Sample	Total/NA	Water	245.1	
380-24931-AX-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	
380-24931-BR-1-B MS	Matrix Spike	Total/NA	Water	245.1	

Analysis Batch: 37693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	245.1	37635
MB 810-37635/1-A	Method Blank	Total/NA	Water	245.1	37635
LCS 810-37635/3-A	Lab Control Sample	Total/NA	Water	245.1	37635
LLCS 810-37635/2-A	Lab Control Sample	Total/NA	Water	245.1	37635
380-24931-AX-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	37635
380-24931-BR-1-B MS	Matrix Spike	Total/NA	Water	245.1	37635

General Chemistry

Analysis Batch: 21094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	SM 2540C	
MB 380-21094/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-21094/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-21094/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-21094/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-21094/3	Lab Control Sample	Total/NA	Water	SM 2540C	
380-24662-G-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 21120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	SM 4500 S2 D	
MB 380-21120/1	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 380-21120/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 380-21120/11	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
MRL 380-21120/10	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
MRL 380-21120/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
810-41254-AD-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
810-41254-AD-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 22034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	SM 4500 F C	
MB 380-22034/40	Method Blank	Total/NA	Water	SM 4500 F C	
MB 380-22034/6	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 380-22034/42	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 380-22034/8	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCSD 380-22034/43	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
LCSD 380-22034/9	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
MRL 380-22034/41	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 380-22034/7	Lab Control Sample	Total/NA	Water	SM 4500 F C	

General Chemistry

Analysis Batch: 22035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	SM 2320B	
MB 380-22035/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 380-22035/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 380-22035/22	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 380-22035/6	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 380-22035/8	Lab Control Sample	Total/NA	Water	SM 2320B	
380-24662-C-1 MS	Matrix Spike	Total/NA	Water	SM 2320B	
380-24662-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2320B	
380-24662-C-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 22036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	SM 2510B	
MB 380-22036/7	Method Blank	Total/NA	Water	SM 2510B	
LCS 380-22036/10	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 380-22036/22	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
MRL 380-22036/8	Lab Control Sample	Total/NA	Water	SM 2510B	
380-24662-C-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 22037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	SM 4500 H+ B	
MB 380-22037/9	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCS 380-22037/10	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 380-22037/23	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
380-24662-C-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Subcontract

Analysis Batch: O-40006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625 Acid/Base/PAH + TICs	O-40006_P
100921-B1	Method Blank	Total/NA	BlankMatrix	625 Acid/Base/PAH + TICs	O-40006_P
100921-BS1	Lab Control Sample	Total/NA	BlankMatrix	625 Acid/Base/PAH + TICs	O-40006_P
100921-BS2	Lab Control Sample Dup	Total/NA	BlankMatrix	625 Acid/Base/PAH + TICs	O-40006_P

Analysis Batch: 22DSJ049W

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015 LL DRO/MRO/JP5/JP8	
22DSJ049WB	Method Blank	Total/NA	WATER	8015 LL DRO/MRO/JP5/JP8	

Subcontract (Continued)

Analysis Batch: 22DSJ049W (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
22DSJ049WL	Lab Control Sample	Total/NA	WATER	8015 LL DRO/MRO/JP5/JP8	
22J5J049WL	Lab Control Sample	Total/NA	WATER	8015 LL DRO/MRO/JP5/JP8	
22J8J049WL	Lab Control Sample	Total/NA	WATER	8015 LL DRO/MRO/JP5/JP8	

Analysis Batch: 22MEJ004W

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015 Ethanol	
22MEJ004WB	Method Blank	Total/NA	WATER	8015 Ethanol	
22MEJ004WL	Lab Control Sample	Total/NA	WATER	8015 Ethanol	
22J272-01M	Matrix Spike	Total/NA	WATER	8015 Ethanol	
22J272-01S	Matrix Spike Duplicate	Total/NA	WATER	8015 Ethanol	

Analysis Batch: 22VGH7J11

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015 Gas (Purgeable) LL (EAL)	
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015 Gas (Purgeable) LL (EAL)	
22VGH7J11B	Method Blank	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	
22VGH7J11L	Lab Control Sample	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	
22J272-01M	Matrix Spike	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	
22J272-01S	Matrix Spike Duplicate	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL)	

Prep Batch: O-40006_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	EPA_625	
100921-B1	Method Blank	Total/NA	BlankMatrix	EPA_625	
100921-BS1	Lab Control Sample	Total/NA	BlankMatrix	EPA_625	
100921-BS2	Lab Control Sample Dup	Total/NA	BlankMatrix	EPA_625	

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

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

Lab Sample ID: 380-24805-1

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	21526	AAE8	EA MON	10/21/22 16:58
Total/NA	Analysis	524.2		1	21441	P3EE	EA MON	10/20/22 23:34
Total/NA	Prep	525.2			21477	OTM3	EA MON	10/21/22 07:31
Total/NA	Analysis	525.2		1	21699	UJC9	EA MON	10/24/22 23:51
Total/NA	Prep	504.1			21364	K9GY	EA MON	10/20/22 13:23 - 10/20/22 14:28 [1]
Total/NA	Analysis	504.1		1	21577	K9GY	EA MON	10/21/22 05:34
Total/NA	Prep	505			21407	DR5R	EA MON	10/20/22 13:52 - 10/20/22 16:00 [1]
Total/NA	Analysis	505		1	22249	ULRL	EA MON	10/20/22 19:33
Total/NA	Analysis	300.0		1	21948	UNJR	EA MON	10/24/22 23:54
Total/NA	Analysis	300.0		2	21137	LM8C	EA MON	10/18/22 16:52
Total/NA	Analysis	300.0		2	21138	LM8C	EA MON	10/18/22 16:52
Total/NA	Analysis	200.7 Rev 4.4		1	21742	UNSI	EA MON	10/24/22 14:11
Total Recoverable	Prep	200.8			21413	NQM8	EA MON	10/20/22 14:15
Total Recoverable	Analysis	200.8		1	21591	DHX7	EA MON	10/21/22 15:03
Total/NA	Prep	245.1			37635	AC	EA SB	11/07/22 10:10
Total/NA	Analysis	245.1		1	37693	AC	EA SB	11/07/22 16:00
Total/NA	Analysis	SM 2320B		1	22035	ZYV7	EA MON	10/26/22 01:56
Total/NA	Analysis	SM 2510B		1	22036	ZYV7	EA MON	10/26/22 01:56
Total/NA	Analysis	SM 2540C		1	21094	XLG4	EA MON	10/18/22 16:10
Total/NA	Analysis	SM 4500 F C		1	22034	ZYV7	EA MON	10/25/22 22:53
Total/NA	Analysis	SM 4500 H+ B		1	22037	ZYV7	EA MON	10/26/22 01:56
Total/NA	Analysis	SM 4500 S2 D		1	21120	PK4Q	EA MON	10/18/22 20:31
Total/NA	Prep	EPA_625		1	O-40006_P			10/20/22 00:00
Total/NA	Analysis	625 Acid/Base/PAH + TICs		1	O-40006	YC		11/14/22 15:54
Total/NA	Analysis	8015 Ethanol		1	22MEJ004W	ASitu		10/21/22 14:13
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	22VGH7J11	SCerva		10/21/22 15:54
Total/NA	Analysis	8015 LL DRO/MRO/JP5/JP8		1	22DSJ049W	SDees		10/25/22 01:08

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-24805-2

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	21256	AAE8	EA MON	10/20/22 01:31
Total/NA	Analysis	524.2		1	22279	P3EE	EA MON	10/27/22 16:43
Total/NA	Prep	504.1			22241	K9GY	EA MON	10/27/22 12:27 - 10/27/22 13:49 [1]
Total/NA	Analysis	504.1		1	22648	K9GY	EA MON	10/27/22 23:09
Total/NA	Prep	505			21407	DR5R	EA MON	10/20/22 13:52 - 10/20/22 16:00 [1]
Total/NA	Analysis	505		1	22249	ULRL	EA MON	10/20/22 20:42

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Date Collected: 10/17/22 11:04
Date Received: 10/18/22 09:40

Lab Sample ID: 380-24805-2

Matrix: Water

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	22VGH7J11	SCerva		10/21/22 17:46

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

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

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

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

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
300.0		Water	Nitrate Nitrite as N
505	505	Water	Polychlorinated biphenyls, Total
524.2		Water	1,3-Dichloropropene, Total
524.2		Water	2-Butanone (MEK)
524.2		Water	4-Methyl-2-pentanone (MIBK)
524.2		Water	Acetone
524.2		Water	Bromoethane
524.2		Water	m,p-Xylenes
524.2		Water	o-Xylene
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acenaphthene
525.2	525.2	Water	Acenaphthylene
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	Anthracene
525.2	525.2	Water	Benz(a)anthracene
525.2	525.2	Water	Benzo[b]fluoranthene
525.2	525.2	Water	Benzo[g,h,i]perylene
525.2	525.2	Water	Benzo[k]fluoranthene
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Bromacil
525.2	525.2	Water	Butylbenzylphthalate
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	Chrysene
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Dibenz(a,h)anthracene
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Diethylphthalate
525.2	525.2	Water	Dimethylphthalate
525.2	525.2	Water	Di-n-butyl phthalate
525.2	525.2	Water	Di-n-octyl phthalate
525.2	525.2	Water	Endosulfan I (Alpha)

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

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	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	Fluoranthene
525.2	525.2	Water	Fluorene
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Indeno[1,2,3-cd]pyrene
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Molinate
525.2	525.2	Water	Naphthalene
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Phenanthrene
525.2	525.2	Water	Pyrene
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbuthylazine
525.2	525.2	Water	Thiobencarb
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor
525.2	525.2	Water	Trifluralin
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 S2 D		Water	Sulfide

Laboratory: Eurofins Eaton South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-24
Alabama	State	40700	06-30-23
Alaska	State	IN00035	06-30-23
Arizona	State	AZ0432	07-26-23
Arkansas (DW)	State	EPA IN00035	06-30-23
California	State	2920	06-30-23
Colorado	State	IN00035	02-28-23
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-23
Florida	NELAP	E87775	06-30-23
Georgia (DW)	State	929	06-30-23
Hawaii	State	IN035	06-30-23
Idaho (DW)	State	IN00035	12-31-22
IL Dept. of Public Health (Micro)	State	17767	12-31-22
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Laboratory: Eurofins Eaton South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA014	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-23
Massachusetts	State	M-IN035	06-30-23
MI - RadChem Recognition	State	9926	06-30-23
Michigan	State	9926	12-31-22
Minnesota	NELAP	1989807	11-14-22
Mississippi	State	IN00035	06-30-22 *
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-23
Nevada	State	IN000352021-2	07-31-23
New Hampshire	NELAP	2124	11-05-23
New Jersey	NELAP	IN598	06-30-23
New Mexico	State	IN00035	06-30-23
New York	NELAP	11398	04-01-23
North Carolina (DW)	State	18700	07-31-23
North Dakota	State	R-035	06-30-23
Ohio	State	87775	06-30-23
Oklahoma	NELAP	D9508	08-31-23
Oregon	NELAP	4156	09-16-23
Pennsylvania	NELAP	68-00466	04-30-23
Puerto Rico	State	IN00035	04-01-23
Rhode Island	State	LAO00343	12-30-22
South Carolina	State	95005001	06-30-23
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-23
Texas	NELAP	T104704187-22-16	12-31-22
Texas	TCEQ Water Supply	TX207	06-30-23
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-23
Vermont	State	VT-8775	11-14-22
Virginia	NELAP	460275	03-14-23
Washington	State	C837	01-01-23
West Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-23
Wisconsin (Micro)	State	10121	12-31-22
Wyoming	State	8TMS-L	06-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS SIM)	EPA-DW	EA MON
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA MON
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA MON
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW2	EA MON
505	Organochlorine Pesticides/PCBs (GC)	EPA	EA MON
300.0	Anions, Ion Chromatography	EPA	EA MON
200.7 Rev 4.4	Metals (ICP)	EPA	EA MON
200.8	Metals (ICP/MS)	EPA	EA MON
245.1	Mercury (CVAA)	EPA	EA SB
SM 2320B	Alkalinity	SM	EA MON
SM 2510B	Conductivity, Specific Conductance	SM	EA MON
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA MON
SM 4500 F C	Fluoride	SM	EA MON
SM 4500 H+ B	pH	SM	EA MON
SM 4500 S2 D	Sulfide, Total	SM	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	
200.8	Preparation, Total Recoverable Metals	EPA	EA MON
245.1	Preparation, Mercury	EPA	EA SB
504.1	Microextraction	EPA-DW	EA MON
505	Extraction, Organochlorine Pesticides/PCBs	EPA	EA MON
525.2	Extraction of Semivolatile Compounds	EPA	EA MON
None	Autocomplete Prep - Metals - No Digestion required	None	EA MON

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

EPA-DW2 = "Methods For The Determination of Organic Compounds in Drinking Water - Supplement III ",, EPA/600/R-95-131, August 1995

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

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

Sample Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-24805-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-24805-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	10/17/22 11:04	10/18/22 09:40
380-24805-2	TB: AIEA GULCH WELLS PUMP 2	Water	10/17/22 11:04	10/18/22 09:40

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

Date: 11-10-2022
EMAX Batch No.: 22J272

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 380-24805

Enclosed is the Laboratory report for samples received on 10/19/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
380-24805-1	J272-01	10/17/22	WATER	TPH GASOLINE
				TPH
				ETHANOL
380-24805-2	J272-02	10/17/22	WATER	TPH GASOLINE
380-24805-1MS	J272-01M	10/17/22	WATER	TPH GASOLINE
				ETHANOL
380-24805-1MSD	J272-01S	10/17/22	WATER	TPH GASOLINE
				ETHANOL

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Pang
Laboratory Director

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

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

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

22J272

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-24905.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: EMAX Laboratories Inc		Accreditations Required (See note): State - Hawaii		Job #: 380-24805-1
Address: 3051 Fujita Street, ,	Due Date Requested: 11/1/2022			
City: Torrance	TAT Requested (days):			
State, Zip: CA, 90505	PO #:			
Phone:	WO #:			
Email:	Project #: 38001111			
Project Name: RED-HILL	SSOW#:			
Site: Honolulu BWS Sites				

Analysis Requested

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 - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8015 Gas (Purgeable) LL (EAL))/ 8015 Gas (Purgeable) LL (EAL)	SUB (8015 LL DRO/MRO/JP5/JP8)/ 8015 LL DRO/MRO/JP5/JP8	SUB (8015 Ethanol)/ 8015 Ethanol	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
1 AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-24805-1)	10/17/22	11:04 Hawaiian		Water			X	X	X	12	See Attached Instructions
2 TB: AIEA GULCH WELLS PUMP 2 (380-24805-2)	10/17/22	11:04 Hawaiian		Water			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/tests/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 complicance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/19/22 1058	EMAX		10/19/22 1058	EMAX
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: Temp. 2.4

EMAX LABORATORIES, INC.

REFERENCE: EMAX-SM02 Rev. 12

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 22J272
☐ Fedex ☐ UPS ☐ GSO ☐ Others		Recipient Johwin Zamora
☐ EMAX Courier ☒ Client Delivery		Date 10/19/22 Time 10:58

COC INSPECTION

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

Note: _____

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 2.4 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 210760237	*C - S/N* _____	(D) *S/N* 210760272	

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

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
2	13,14	D22	2nd Date reads 09/21/22	R1

10/19/22

NB 10/26/22

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

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? ☐ YES ☐ NO

LEGEND:

☐ Continue to next page.

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

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
(D22)	2nd Date on label is incorrect
D23	_____
D24	_____

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

REVIEWS:

Sample Labeling: Maria Rivera Date 10/19/22 | 10/19/22

SRF: Date 10/19/22

PM: NB Date 10/26/22

REPORTING CONVENTIONS

DATA QUALIFIERS:

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

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

ACRONYMS AND ABBREVIATIONS:

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

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-24805

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

SDG#: 22J272

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-24805

SDG : 22J272

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

A total of two(2) water samples were received on 10/19/22 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. VGH7J11B - 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. VGH7J11L/VGH7J11C 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 J272-01M/J272-01S. 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 : 380-24805

SDG NO. : 22J272
Instrument ID : H7

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VGH7J11B	1	NA	10/21/2212:47	10/21/2212:47	AJ21005A	AJ21004A	22VGH7J11	Method Blank
LCS1W	VGH7J11L	1	NA	10/21/2214:40	10/21/2214:40	AJ21008A	AJ21004A	22VGH7J11	Lab Control Sample (LCS)
LCD1W	VGH7J11C	1	NA	10/21/2215:17	10/21/2215:17	AJ21009A	AJ21004A	22VGH7J11	LCS Duplicate
380-24805-1	J272-01	1	NA	10/21/2215:54	10/21/2215:54	AJ21010A	AJ21004A	22VGH7J11	Field Sample
380-24805-1MS	J272-01M	1	NA	10/21/2216:32	10/21/2216:32	AJ21011A	AJ21004A	22VGH7J11	Matrix Spike Sample (MS)
380-24805-1MSD	J272-01S	1	NA	10/21/2217:09	10/21/2217:09	AJ21012A	AJ21004A	22VGH7J11	MS Duplicate (MSD)
380-24805-2	J272-02	1	NA	10/21/2217:46	10/21/2217:46	AJ21013A	AJ21004A	22VGH7J11	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

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

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/17/22 11:04
Project	: 380-24805	Date Received:	10/19/22
Batch No.	: 22J272	Date Extracted:	10/21/22 15:54
Sample ID	: 380-24805-1	Date Analyzed:	10/21/22 15:54
Lab Samp ID:	J272-01	Dilution Factor:	1
Lab File ID:	AJ21010A	Matrix:	WATER
Ext Btch ID:	22VGH7J11	% Moisture:	NA
Calib. Ref.:	AJ21004A	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:	10/17/22 11:04
Project	: 380-24805	Date Received:	10/19/22
Batch No.	: 22J272	Date Extracted:	10/21/22 17:46
Sample ID	: 380-24805-2	Date Analyzed:	10/21/22 17:46
Lab Samp ID:	J272-02	Dilution Factor:	1
Lab File ID:	AJ21013A	Matrix:	WATER
Ext Btch ID:	22VGH7J11	% Moisture:	NA
Calib. Ref.:	AJ21004A	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	0.0367	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

QC SUMMARIES

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

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/21/22 12:47
Project	: 380-24805	Date Received:	10/21/22
Batch No.	: 22J272	Date Extracted:	10/21/22 12:47
Sample ID	: MBLK1W	Date Analyzed:	10/21/22 12:47
Lab Samp ID:	VGH7J11B	Dilution Factor:	1
Lab File ID:	AJ21005A	Matrix:	WATER
Ext Btch ID:	22VGH7J11	% Moisture:	NA
Calib. Ref.:	AJ21004A	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	0.0313	0.0400	78	60-140

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

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-24805
BATCH NO. : 22J272
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VGH7J11B	VGH7J11L	VGH7J11C
LAB FILE ID	: AJ21005A	AJ21008A	AJ21009A
DATE PREPARED	: 10/21/22 12:47	10/21/22 14:40	10/21/22 15:17
DATE ANALYZED	: 10/21/22 12:47	10/21/22 14:40	10/21/22 15:17
PREP BATCH	: 22VGH7J11	22VGH7J11	22VGH7J11
CALIBRATION REF	: AJ21004A	AJ21004A	AJ21004A

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	0.453	91	0.500	0.460	92	2	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0439	110	0.0400	0.0418	105	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 : 380-24805
BATCH NO. : 22J272
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 380-24805-1	380-24805-1MS	380-24805-1MSD
LAB SAMPLE ID	: J272-01	J272-01M	J272-01S
LAB FILE ID	: AJ21010A	AJ21011A	AJ21012A
DATE PREPARED	: 10/21/22 15:54	10/21/22 16:32	10/21/22 17:09
DATE ANALYZED	: 10/21/22 15:54	10/21/22 16:32	10/21/22 17:09
PREP BATCH	: 22VGH7J11	22VGH7J11	22VGH7J11
CALIBRATION REF	: AJ21004A	AJ21004A	AJ21004A

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	0.478	96	0.500	0.464	93	3	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0461	115	0.0400	0.0467	117	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-24805

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22J272

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-24805

SDG : 22J272

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 10/19/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSJ049WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSJ049WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22J162-01M/22J162-01S. Refer to Matrix QC summary form for details.

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

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

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-24805

SDG : 22J272

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 10/19/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSJ049WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for JP5 was within LCS QC limits in J5J049WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22J162-01M/22J162-01S. Refer to Matrix QC summary form for details.

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

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

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-24805

SDG : 22J272

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 10/19/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSJ049WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for JP8 was within LCS QC limits in J8J049WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22J197-01M/22J197-01S. Refer to Matrix QC summary form for details.

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

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 380-24805

SDG NO. : 22J272
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSJ049WB	1	NA	10/24/2219:18	10/22/2213:30	LJ24029A	LJ24023A	22DSJ049W	Method Blank
LCS1W	DSJ049WL	1	NA	10/24/2219:36	10/22/2213:30	LJ24030A	LJ24023A	22DSJ049W	Lab Control Sample (LCS)
380-24805-1	J272-01	1	NA	10/25/2201:08	10/22/2213:30	LJ24048A	LJ24023A	22DSJ049W	Field Sample

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 380-24805

SDG NO. : 22J272
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSJ049WB	1	NA	10/24/2219:18	10/22/2213:30	LJ24029A	LJ24024A	22DSJ049W	Method Blank
LCS1W	J5J049WL	1	NA	10/24/2219:55	10/22/2213:30	LJ24031A	LJ24024A	22DSJ049W	Lab Control Sample (LCS)
380-24805-1	J272-01	1	NA	10/25/2201:08	10/22/2213:30	LJ24048A	LJ24024A	22DSJ049W	Field Sample

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 380-24805

SDG NO. : 22J272
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSJ049WB	1	NA	10/24/2219:18	10/22/2213:30	LJ24029A	LJ24025A	22DSJ049W	Method Blank
LCS1W	J8J049WL	1	NA	10/24/2220:13	10/22/2213:30	LJ24032A	LJ24025A	22DSJ049W	Lab Control Sample (LCS)
380-24805-1	J272-01	1	NA	10/25/2201:08	10/22/2213:30	LJ24048A	LJ24025A	22DSJ049W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/17/22 11:04
Project	: 380-24805	Date Received:	10/19/22
Batch No.	: 22J272	Date Extracted:	10/22/22 13:30
Sample ID	: 380-24805-1	Date Analyzed:	10/25/22 01:08
Lab Samp ID:	22J272-01	Dilution Factor:	1
Lab File ID:	LJ24048A	Matrix:	WATER
Ext Btch ID:	22DSJ049W	% Moisture:	NA
Calib. Ref.:	LJ24023A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.030	0.015
Motor Oil	ND	0.059	0.030

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.570	0.595	96	60-130
Hexacosane	0.149	0.149	100	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	: 840ml	Final Volume	: 5ml
Prepared by	: DLi	Analyzed by	: SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/17/22 11:04
Project	: 380-24805	Date Received:	10/19/22
Batch No.	: 22J272	Date Extracted:	10/22/22 13:30
Sample ID	: 380-24805-1	Date Analyzed:	10/25/22 01:08
Lab Samp ID:	22J272-01	Dilution Factor:	1
Lab File ID:	LJ24048A	Matrix:	WATER
Ext Btch ID:	22DSJ049W	% Moisture:	NA
Calib. Ref.:	LJ24024A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.059	0.030

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.570	0.595	96	60-130
Hexacosane	0.149	0.149	100	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 : 840ml Final Volume : 5ml
Prepared by : DLi Analyzed by : SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/17/22 11:04
Project	: 380-24805	Date Received:	10/19/22
Batch No.	: 22J272	Date Extracted:	10/22/22 13:30
Sample ID	: 380-24805-1	Date Analyzed:	10/25/22 01:08
Lab Samp ID:	22J272-01	Dilution Factor:	1
Lab File ID:	LJ24048A	Matrix:	WATER
Ext Btch ID:	22DSJ049W	% Moisture:	NA
Calib. Ref.:	LJ24025A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.059	0.030

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.570	0.595	96	60-130
Hexacosane	0.149	0.149	100	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 : 840ml Final Volume : 5ml
Prepared by : DLi Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/22/22 13:30
Project	: 380-24805	Date Received:	10/22/22
Batch No.	: 22J272	Date Extracted:	10/22/22 13:30
Sample ID	: MBLK1W	Date Analyzed:	10/24/22 19:18
Lab Samp ID:	DSJ049WB	Dilution Factor:	1
Lab File ID:	LJ24029A	Matrix:	WATER
Ext Btch ID:	22DSJ049W	% Moisture:	NA
Calib. Ref.:	LJ24023A	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	0.493	0.500	99	60-130
Hexacosane	0.132	0.125	106	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	: DLi	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-24805
BATCH NO. : 22J272
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSJ049WB	DSJ049WL
LAB FILE ID	: LJ24029A	LJ24030A
DATE PREPARED	: 10/22/22 13:30	10/22/22 13:30
DATE ANALYZED	: 10/24/22 19:18	10/24/22 19:36
PREP BATCH	: 22DSJ049W	22DSJ049W
CALIBRATION REF	: LJ24023A	LJ24023A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.70	108	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.517	103	60-130
Hexacosane	0.125	0.124	99	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-23784
BATCH NO. : 22J162
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 380-23784-1	380-23784-1MS	380-23784-1MSD
LAB SAMPLE ID	: 22J162-01	22J162-01M	22J162-01S
LAB FILE ID	: LJ24033A	LJ24034A	LJ24035A
DATE PREPARED	: 10/22/22 13:30	10/22/22 13:30	10/22/22 13:30
DATE ANALYZED	: 10/24/22 20:32	10/24/22 20:50	10/24/22 21:09
PREP BATCH	: 22DSJ049W	22DSJ049W	22DSJ049W
CALIBRATION REF	: LJ24023A	LJ24023A	LJ24023A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.38	2.64	111	2.40	2.69	112	2	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.475	0.435	92	0.480	0.513	107	60-130
Hexacosane	0.119	0.122	103	0.120	0.129	108	60-130

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

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/22/22 13:30
Project	: 380-24805	Date Received:	10/22/22
Batch No.	: 22J272	Date Extracted:	10/22/22 13:30
Sample ID	: MBLK1W	Date Analyzed:	10/24/22 19:18
Lab Samp ID:	DSJ049WB	Dilution Factor:	1
Lab File ID:	LJ24029A	Matrix:	WATER
Ext Btch ID:	22DSJ049W	% Moisture:	NA
Calib. Ref.:	LJ24024A	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	0.493	0.500	99	60-130
Hexacosane	0.132	0.125	106	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	: DLi	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-24805
BATCH NO. : 22J272
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSJ049WB	J5J049WL
LAB FILE ID	: LJ24029A	LJ24031A
DATE PREPARED	: 10/22/22 13:30	10/22/22 13:30
DATE ANALYZED	: 10/24/22 19:18	10/24/22 19:55
PREP BATCH	: 22DSJ049W	22DSJ049W
CALIBRATION REF	: LJ24024A	LJ24024A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.20	88	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.510	102	60-130
Hexacosane	0.125	0.118	94	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-23784
BATCH NO. : 22J162
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 380-23784-1	380-23784-1MS	380-23784-1MSD
LAB SAMPLE ID	: 22J162-01	22J162-01M	22J162-01S
LAB FILE ID	: LJ24033A	LJ24036A	LJ24037A
DATE PREPARED	: 10/22/22 13:30	10/22/22 13:30	10/22/22 13:30
DATE ANALYZED	: 10/24/22 20:32	10/24/22 21:27	10/24/22 21:46
PREP BATCH	: 22DSJ049W	22DSJ049W	22DSJ049W
CALIBRATION REF	: LJ24024A	LJ24024A	LJ24024A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.65	2.19	83	2.72	2.40	88	9	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.530	0.562	106	0.545	0.581	107	60-130
Hexacosane	0.132	0.131	99	0.136	0.129	95	60-130

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

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/22/22 13:30
Project	: 380-24805	Date Received:	10/22/22
Batch No.	: 22J272	Date Extracted:	10/22/22 13:30
Sample ID	: MBLK1W	Date Analyzed:	10/24/22 19:18
Lab Samp ID:	DSJ049WB	Dilution Factor:	1
Lab File ID:	LJ24029A	Matrix:	WATER
Ext Btch ID:	22DSJ049W	% Moisture:	NA
Calib. Ref.:	LJ24025A	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	0.493	0.500	99	60-130
Hexacosane	0.132	0.125	106	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 : DLi Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-24805
BATCH NO. : 22J272
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR	: 1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSJ049WB	J8J049WL
LAB FILE ID	: LJ24029A	LJ24032A
DATE PREPARED	: 10/22/22 13:30	10/22/22 13:30
DATE ANALYZED	: 10/24/22 19:18	10/24/22 20:13
PREP BATCH	: 22DSJ049W	22DSJ049W
CALIBRATION REF	: LJ24025A	LJ24025A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	2.50	100	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.494	99	60-130
Hexacosane	0.125	0.127	102	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-24009
BATCH NO. : 22J197
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: 380-24009-1	380-24009-1MS	380-24009-1MSD
LAB SAMPLE ID	: 22J197-01	22J197-01M	22J197-01S
LAB FILE ID	: LJ24044A	LJ24045A	LJ24046A
DATE PREPARED	: 10/22/22 13:30	10/22/22 13:30	10/22/22 13:30
DATE ANALYZED	: 10/24/22 23:55	10/25/22 00:13	10/25/22 00:32
PREP BATCH	: 22DSJ049W	22DSJ049W	22DSJ049W
CALIBRATION REF	: LJ24025A	LJ24025A	LJ24025A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	2.71	102	2.80	2.97	106	9	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.530	0.540	102	0.560	0.534	95	60-130
Hexacosane	0.132	0.147	111	0.140	0.152	109	60-130

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-24805

METHOD SW8015C
ALCOHOLS BY GC

SDG#: 22J272

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-24805

SDG : 22J272

METHOD SW8015C
ALCOHOLS BY GC

One(1) water sample was received on 10/19/22 to be analyzed for Alcohols by GC in accordance with Method SW8015C and project specific requirements.

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

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

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. MEJ004WB - 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. MEJ004WL/MEJ004WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Ethanol was within MS QC limits in J272-01M/J272-01S. Refer to Matrix QC summary form for details.

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

LAB CHRONICLE
ALCOHOLS BY GC

Client : EUROFINS EATON ANALYTICAL
Project : 380-24805

SDG NO. : 22J272
Instrument ID : GCT050

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	MEJ004WB	1	NA	10/21/2213:33	NA	TJ21004A	TJ21002A	MEJ004W	Method Blank
LCS1W	MEJ004WL	1	NA	10/21/2213:47	NA	TJ21005A	TJ21002A	MEJ004W	Lab Control Sample (LCS)
LCD1W	MEJ004WC	1	NA	10/21/2214:00	NA	TJ21006A	TJ21002A	MEJ004W	LCS Duplicate
380-24805-1	J272-01	1	NA	10/21/2214:13	NA	TJ21007A	TJ21002A	MEJ004W	Field Sample
380-24805-1MS	J272-01M	1	NA	10/21/2214:40	NA	TJ21008A	TJ21002A	MEJ004W	Matrix Spike Sample (MS)
380-24805-1MSD	J272-01S	1	NA	10/21/2214:56	NA	TJ21009A	TJ21002A	MEJ004W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW8015C
ALCOHOLS BY GC

Client : EUROFINS EATON ANALYTICAL	Date Collected: 10/17/22
Project : 380-24805	Date Received: 10/19/22
Batch No. : 22J272	Date Extracted: NA
Sample ID: 380-24805-1	Date Analyzed: 10/21/22 14:13
Lab Samp ID: J272-01	Dilution Factor: 1
Lab File ID: TJ21007A	Matrix : WATER
Ext Btch ID: MEJ004W	% Moisture : NA
Calib. Ref.: TJ21002A	Instrument ID : GCT050

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

RL : Reporting Limit

QC SUMMARIES

METHOD SW8015C
ALCOHOLS BY GC

Client : EUROFINS EATON ANALYTICAL	Date Collected: NA
Project : 380-24805	Date Received: NA
Batch No. : 22J272	Date Extracted: NA
Sample ID: MBLK1W	Date Analyzed: 10/21/22 13:33
Lab Samp ID: MEJ004WB	Dilution Factor: 1
Lab File ID: TJ21004A	Matrix : WATER
Ext Btch ID: MEJ004W	% Moisture : NA
Calib. Ref.: TJ21002A	Instrument ID : GCT050

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

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 380-24805
BATCH NO.: 22J272
METHOD: METHOD SW8015C

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	MEJ004WB	MEJ004WL	MEJ004WC		
LAB FILE ID:	TJ21004A	TJ21005A	TJ21006A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	10/21/2213:33	10/21/2213:47	10/21/2214:00	DATE RECEIVED:	NA
PREP. BATCH:	MEJ004W	MEJ004W	MEJ004W		
CALIB. REF:	TJ21002A	TJ21002A	TJ21002A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethanol	ND	10000	10300	103	10000	10300	103	0	60-130	30

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 380-24805
BATCH NO.: 22J272
METHOD: METHOD SW8015C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: 380-24805-1
LAB SAMP ID: J272-01 J272-01M J272-01S
LAB FILE ID: TJ21007A TJ21008A TJ21009A
DATE EXTRACTED: NA NA NA DATE COLLECTED: 10/17/22
DATE ANALYZED: 10/21/2214:13 10/21/2214:40 10/21/2214:56 DATE RECEIVED: 10/19/22
PREP. BATCH: MEJ004W MEJ004W MEJ004W
CALIB. REF: TJ21002A TJ21002A TJ21002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethanol	ND	10000	10000	100	10000	11100	111	10	60-130	30

December 07, 2022

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

Project Name: RED-HILL Project # 38001111 Job # 380-24805-1
Physis Project ID: 1407003-322

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 10/19/2022. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

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

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

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

Regards,

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

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-322

RED-HILL Project # 38001111 Job # 380-24805-1

Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
100922	AIEA GULCH WELLS PUMP 2	31-202-TP072 (380-24805-1)	10/17/2022	11:04	Samplewater	Not Specified

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ABBREVIATIONS and ACRONYMS

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

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QUALITY ASSURANCE SUMMARY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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PHYSIS QUALIFIER CODES

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

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CASE NARRATIVE

QUALIFIER NOTES

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

ND

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

ANALYTICAL REPORT

PHYSIS Project ID: 1407003-322
Client: Eurofins Eaton Analytical
Project: RED-HILL Project # 38001111 Job # 380-24805-1

Acid Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 100922-R1	**AIEA GULCH WELLS PUMP 2 331-20 Matrix: Samplewater**						**Sampled:**	**17-Oct-22 11:04**		**Received:**	**19-Oct-22**
(2,4,6-Tribromophenol)	EPA 625.1	% Recovery	95	1			Total		O-40006	20-Oct-22	14-Nov-22
(d5-Phenol)	EPA 625.1	% Recovery	33	1			Total		O-40006	20-Oct-22	14-Nov-22
2,4,5-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2,4,6-Trichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2,4-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2,4-Dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
2,6-Dichlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2,6-Di-tert-butyl-4-methylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2,6-Di-tert-butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2-Chlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2-Methyl-4,6-dinitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
2-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
2-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
3+4-Methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
4-Chloro-3-methylphenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
4-Nitrophenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
6-tert-butyl-2,4-dimethylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Benzoic Acid	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
Benzyl Alcohol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
Pentachlorophenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Phenol	EPA 625.1	µg/L	ND	1	0.1	0.2	Total		O-40006	20-Oct-22	14-Nov-22
p-tert-Butylphenol	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22

Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 100922-R1	**AIEA GULCH WELLS PUMP 2 331-20 Matrix: Samplewater**						**Sampled:**	**17-Oct-22 11:04**		**Received:**	**19-Oct-22**
2-Chloronaphthalene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
2-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
3-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
4-Bromophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
4-Chloroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
4-Chlorophenylphenyl ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
4-Nitroaniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Aniline	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Benzidine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Bis(2-Chloroethoxy) methane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Bis(2-Chloroethyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
D benzofuran	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Hexachloroethane	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
Nitrobenzene	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
N-Nitrosodi-n-propylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22
N-Nitrosodiphenylamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-40006	20-Oct-22	14-Nov-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 100922-R1	**AIEA GULCH WELLS PUMP 2 331-20 Matrix: Samplewater**						**Sampled:**	**17-Oct-22 11:04**		**Received:**	**19-Oct-22**
(d10-Acenaphthene)	EPA 625.1	% Recovery	78	1			Total		O-40006	20-Oct-22	14-Nov-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	94	1			Total		O-40006	20-Oct-22	14-Nov-22
(d12-Chrysene)	EPA 625.1	% Recovery	106	1			Total		O-40006	20-Oct-22	14-Nov-22
(d12-Perylene)	EPA 625.1	% Recovery	97	1			Total		O-40006	20-Oct-22	14-Nov-22
(d8-Naphthalene)	EPA 625.1	% Recovery	69	1			Total		O-40006	20-Oct-22	14-Nov-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
D benz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
D benzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
D benzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22

PHYSIS Project ID: 1407003-322
Client: Eurofins Eaton Analytical
Project: RED-HILL Project # 38001111 Job # 380-24805-1

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-40006	20-Oct-22	14-Nov-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-40006	20-Oct-22	14-Nov-22

QUALITY CONTROL REPORT

ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

PHYSIS Project ID: 1407003-322
Client: Eurofins Eaton Analytical
Project: RED-HILL Project # 38001111 Job # 380-24805-1

Acid Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-40006		Prepared: 18-Oct-22				Analyzed: 13-Nov-22	
(2,4,6-Tribromophenol)	Total	73	1			% Recovery	100	73	30 - 130%	PASS			
(d5-Phenol)	Total	115	1			% Recovery	100	115	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 LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
	Method: EPA 625.1					Batch ID: O-40006		Prepared: 18-Oct-22				Analyzed: 13-Nov-22	
(2,4,6-Tribromophenol)	Total	79	1			% Recovery	100	0	79	30 - 130%		PASS	
(d5-Phenol)	Total	78	1			% Recovery	100	0	78	0 - 130%		PASS	
2,4,5-Trichlorophenol	Total	0.756	1	0.05	0.1	µg/L	1	0	76	30 - 130%		PASS	
2,4,6-Trichlorophenol	Total	0.778	1	0.05	0.1	µg/L	1	0	78	56 - 118%		PASS	
2,4-Dichlorophenol	Total	0.787	1	0.05	0.1	µg/L	1	0	79	51 - 117%		PASS	
2,4-Dinitrophenol	Total	0.495	1	0.1	0.2	µg/L	1	0	50	0 - 152%		PASS	
2,6-Dichlorophenol	Total	0.783	1	0.05	0.1	µg/L	1	0	78	30 - 130%		PASS	
2,6-Di-tert-butyl-4-methylphenol	Total	0.626	1	0.05	0.1	µg/L	1	0	63	50 - 150%		PASS	
2,6-Di-tert-butylphenol	Total	0.688	1	0.05	0.1	µg/L	1	0	69	50 - 150%		PASS	
2-Chlorophenol	Total	0.794	1	0.05	0.1	µg/L	1	0	79	41 - 110%		PASS	
2-Methyl-4,6-dinitrophenol	Total	0.706	1	0.1	0.2	µg/L	1	0	71	0 - 141%		PASS	
2-Methylphenol	Total	0.898	1	0.1	0.2	µg/L	1	0	90	40 - 117%		PASS	
2-Nitrophenol	Total	0.591	1	0.1	0.2	µg/L	1	0	59	40 - 117%		PASS	
3+4-Methylphenol	Total	0.804	1	0.1	0.2	µg/L	1	0	80	0 - 130%		PASS	
4-Chloro-3-methylphenol	Total	0.716	1	0.1	0.2	µg/L	1	0	72	51 - 128%		PASS	
4-Nitrophenol	Total	0.423	1	0.1	0.2	µg/L	1	0	42	10 - 164%		PASS	
6-tert-butyl-2,4-dimethylphenol	Total	0.68	1	0.05	0.1	µg/L	1	0	68	50 - 150%		PASS	
Benzyl Alcohol	Total	0.816	1	0.1	0.2	µg/L	1	0	82	43 - 148%		PASS	
Pentachlorophenol	Total	0.525	1	0.05	0.1	µg/L	1	0	52	36 - 111%		PASS	
Phenol	Total	0.779	1	0.1	0.2	µg/L	1	0	78	29 - 114%		PASS	
p-tert-Butylphenol	Total	0.798	1	0.05	0.1	µg/L	1	0	80	50 - 150%		PASS	

Acid Extractable Compounds — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**				**Received:**			
		Method: EPA 625.1				Batch ID: O-40006			Prepared: 18-Oct-22			Analyzed: 13-Nov-22		
(2,4,6-Tribromophenol)	Total	77	1			% Recovery	100	0	77	30 - 130%	PASS	3	30	PASS
(d5-Phenol)	Total	60	1			% Recovery	100	0	60	0 - 130%	PASS	26	30	PASS
2,4,5-Trichlorophenol	Total	0.64	1	0.05	0.1	µg/L	1	0	64	30 - 130%	PASS	17	30	PASS
2,4,6-Trichlorophenol	Total	0.703	1	0.05	0.1	µg/L	1	0	70	56 - 118%	PASS	11	30	PASS
2,4-Dichlorophenol	Total	0.649	1	0.05	0.1	µg/L	1	0	65	51 - 117%	PASS	19	30	PASS
2,4-Dinitrophenol	Total	0.533	1	0.1	0.2	µg/L	1	0	53	0 - 152%	PASS	6	30	PASS
2,6-Dichlorophenol	Total	0.676	1	0.05	0.1	µg/L	1	0	68	30 - 130%	PASS	14	30	PASS
2,6-Di-tert-butyl-4-methylphenol	Total	0.513	1	0.05	0.1	µg/L	1	0	51	50 - 150%	PASS	21	30	PASS
2,6-Di-tert-butylphenol	Total	0.598	1	0.05	0.1	µg/L	1	0	60	50 - 150%	PASS	14	30	PASS
2-Chlorophenol	Total	0.629	1	0.05	0.1	µg/L	1	0	63	41 - 110%	PASS	23	30	PASS
2-Methyl-4,6-dinitrophenol	Total	0.743	1	0.1	0.2	µg/L	1	0	74	0 - 141%	PASS	4	30	PASS
2-Methylphenol	Total	0.769	1	0.1	0.2	µg/L	1	0	77	40 - 117%	PASS	16	30	PASS
2-Nitrophenol	Total	0.528	1	0.1	0.2	µg/L	1	0	53	40 - 117%	PASS	11	30	PASS
3+4-Methylphenol	Total	0.642	1	0.1	0.2	µg/L	1	0	64	0 - 130%	PASS	22	30	PASS
4-Chloro-3-methylphenol	Total	0.673	1	0.1	0.2	µg/L	1	0	67	51 - 128%	PASS	7	30	PASS
4-Nitrophenol	Total	0.375	1	0.1	0.2	µg/L	1	0	38	10 - 164%	PASS	10	30	PASS
6-tert-butyl-2,4-dimethylphenol	Total	0.671	1	0.05	0.1	µg/L	1	0	67	50 - 150%	PASS	1	30	PASS
Benzyl Alcohol	Total	0.625	1	0.1	0.2	µg/L	1	0	62	43 - 148%	PASS	28	30	PASS
Pentachlorophenol	Total	0.563	1	0.05	0.1	µg/L	1	0	56	36 - 111%	PASS	7	30	PASS
Phenol	Total	0.59	1	0.1	0.2	µg/L	1	0	59	29 - 114%	PASS	28	30	PASS
p-tert-Butylphenol	Total	0.718	1	0.05	0.1	µg/L	1	0	72	50 - 150%	PASS	11	30	PASS

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-40006	Prepared: 18-Oct-22					Analyzed: 13-Nov-22	
2-Chloronaphthalene	Total	ND	1	0.05	0.1	µg/L							
2-Nitroaniline	Total	ND	1	0.05	0.1	µg/L							
3-Nitroaniline	Total	ND	1	0.05	0.1	µg/L							
4-Bromophenylphenyl ether	Total	ND	1	0.05	0.1	µg/L							
4-Chloroaniline	Total	ND	1	0.05	0.1	µg/L							
4-Chlorophenylphenyl ether	Total	ND	1	0.05	0.1	µg/L							
4-Nitroaniline	Total	ND	1	0.05	0.1	µg/L							
Aniline	Total	ND	1	0.05	0.1	µg/L							
Benzidine	Total	ND	1	0.05	0.1	µg/L							
Bis(2-Chloroethoxy) methane	Total	ND	1	0.05	0.1	µg/L							
Bis(2-Chloroethyl) ether	Total	ND	1	0.05	0.1	µg/L							
Bis(2-Chloroisopropyl) ether	Total	ND	1	0.05	0.1	µg/L							
Dibenzofuran	Total	ND	1	0.05	0.1	µg/L							
Disalicylidenepropanediamin	Total	ND	1	0.05	0.1	µg/L							
Hexachloroethane	Total	ND	1	0.05	0.1	µg/L							
Nitrobenzene	Total	ND	1	0.05	0.1	µg/L							
N-Nitrosodi-n-propylamine	Total	ND	1	0.05	0.1	µg/L							
N-Nitrosodiphenylamine	Total	ND	1	0.05	0.1	µg/L							

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-40006		Prepared: 18-Oct-22				Analyzed: 13-Nov-22	
2-Chloronaphthalene	Total	0.827	1	0.05	0.1	µg/L	1	0	83	53 - 130%	PASS		
2-Nitroaniline	Total	0.824	1	0.05	0.1	µg/L	1	0	82	69 - 114%	PASS		
3-Nitroaniline	Total	0.735	1	0.05	0.1	µg/L	1	0	74	23 - 137%	PASS		
4-Bromophenylphenyl ether	Total	0.931	1	0.05	0.1	µg/L	1	0	93	61 - 132%	PASS		
4-Chloroaniline	Total	1.18	1	0.05	0.1	µg/L	1	0	118	50 - 150%	PASS		
4-Chlorophenylphenyl ether	Total	0.921	1	0.05	0.1	µg/L	1	0	92	63 - 130%	PASS		
4-Nitroaniline	Total	1.06	1	0.05	0.1	µg/L	1	0	106	10 - 159%	PASS		
Aniline	Total	1.06	1	0.05	0.1	µg/L	1	0	106	50 - 150%	PASS		
Bis(2-Chloroethoxy) methane	Total	0.875	1	0.05	0.1	µg/L	1	0	88	66 - 122%	PASS		
Bis(2-Chloroethyl) ether	Total	0.802	1	0.05	0.1	µg/L	1	0	80	43 - 127%	PASS		
Bis(2-Chloroisopropyl) ether	Total	1.63	1	0.05	0.1	µg/L	2	0	81	49 - 128%	PASS		
Dibenzofuran	Total	0.89	1	0.05	0.1	µg/L	1	0	89	50 - 150%	PASS		
Disalicylidenepropanediamin e	Total	20.7	1	0.05	0.1	µg/L	25	0	83	50 - 150%	PASS		
Hexachloroethane	Total	0.928	1	0.05	0.1	µg/L	1	0	93	27 - 130%	PASS		
Nitrobenzene	Total	0.845	1	0.05	0.1	µg/L	1	0	85	54 - 111%	PASS		
N-Nitrosodi-n-propylamine	Total	0.775	1	0.05	0.1	µg/L	1	0	77	61 - 152%	PASS		
N-Nitrosodiphenylamine	Total	0.81	1	0.05	0.1	µg/L	1	0	81	49 - 142%	PASS		

Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**				**Received:**			
		Method: EPA 625.1				Batch ID: O-40006			Prepared: 18-Oct-22			Analyzed: 13-Nov-22		
2-Chloronaphthalene	Total	0.774	1	0.05	0.1	µg/L	1	0	77	53 - 130%	PASS	8	30	PASS
2-Nitroaniline	Total	0.815	1	0.05	0.1	µg/L	1	0	81	69 - 114%	PASS	0	30	PASS
3-Nitroaniline	Total	0.63	1	0.05	0.1	µg/L	1	0	63	23 - 137%	PASS	16	30	PASS
4-Bromophenylphenyl ether	Total	0.917	1	0.05	0.1	µg/L	1	0	92	61 - 132%	PASS	1	30	PASS
4-Chloroaniline	Total	0.989	1	0.05	0.1	µg/L	1	0	99	50 - 150%	PASS	18	30	PASS
4-Chlorophenylphenyl ether	Total	0.788	1	0.05	0.1	µg/L	1	0	79	63 - 130%	PASS	15	30	PASS
4-Nitroaniline	Total	1.06	1	0.05	0.1	µg/L	1	0	106	10 - 159%	PASS	0	30	PASS
Aniline	Total	0.889	1	0.05	0.1	µg/L	1	0	89	50 - 150%	PASS	17	30	PASS
Bis(2-Chloroethoxy) methane	Total	0.723	1	0.05	0.1	µg/L	1	0	72	66 - 122%	PASS	20	30	PASS
Bis(2-Chloroethyl) ether	Total	0.611	1	0.05	0.1	µg/L	1	0	61	43 - 127%	PASS	27	30	PASS
Bis(2-Chloroisopropyl) ether	Total	1.24	1	0.05	0.1	µg/L	2	0	62	49 - 128%	PASS	28	30	PASS
Dibenzofuran	Total	0.689	1	0.05	0.1	µg/L	1	0	69	50 - 150%	PASS	25	30	PASS
Disalicylidenepropanediamin	Total	24	1	0.05	0.1	µg/L	25	0	96	50 - 150%	PASS	15	30	PASS
Hexachloroethane	Total	0.715	1	0.05	0.1	µg/L	1	0	71	27 - 130%	PASS	25	30	PASS
Nitrobenzene	Total	0.656	1	0.05	0.1	µg/L	1	0	66	54 - 111%	PASS	24	30	PASS
N-Nitrosodi-n-propylamine	Total	0.662	1	0.05	0.1	µg/L	1	0	66	61 - 152%	PASS	17	30	PASS
N-Nitrosodiphenylamine	Total	0.775	1	0.05	0.1	µg/L	1	0	77	49 - 142%	PASS	4	30	PASS

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1				Batch ID: O-40006		Prepared: 18-Oct-22				Analyzed: 13-Nov-22	
(d10-Acenaphthene)	Total	92	1			% Recovery	100	92	27 - 133%	PASS			
(d10-Phenanthrene)	Total	92	1			% Recovery	100	92	43 - 129%	PASS			
(d12-Chrysene)	Total	82	1			% Recovery	100	82	52 - 144%	PASS			
(d12-Perylene)	Total	84	1			% Recovery	100	84	36 - 161%	PASS			
(d8-Naphthalene)	Total	91	1			% Recovery	100	91	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							

PHYSIS Project ID: 1407003-322
Client: Eurofins Eaton Analytical
Project: RED-HILL Project # 38001111 Job # 380-24805-1

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

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

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 100921-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1				Batch ID: O-40006		Prepared: 18-Oct-22				Analyzed: 13-Nov-22	
(d10-Acenaphthene)	Total	85	1			% Recovery	100	0	85	27 - 133%	PASS		
(d10-Phenanthrene)	Total	91	1			% Recovery	100	0	91	43 - 129%	PASS		
(d12-Chrysene)	Total	91	1			% Recovery	100	0	91	52 - 144%	PASS		
(d12-Perylene)	Total	92	1			% Recovery	100	0	92	36 - 161%	PASS		
(d8-Naphthalene)	Total	78	1			% Recovery	100	0	78	25 - 125%	PASS		
1-Methylnaphthalene	Total	0.404	1	0.001	0.005	µg/L	0.5	0	81	31 - 128%	PASS		
1-Methylphenanthrene	Total	0.46	1	0.001	0.005	µg/L	0.5	0	92	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	0.425	1	0.001	0.005	µg/L	0.5	0	85	55 - 122%	PASS		
2,6-Dimethylnaphthalene	Total	0.416	1	0.001	0.005	µg/L	0.5	0	83	48 - 120%	PASS		
2-Methylnaphthalene	Total	1.29	1	0.001	0.005	µg/L	1.5	0	86	47 - 130%	PASS		
Acenaphthene	Total	1.34	1	0.001	0.005	µg/L	1.5	0	89	53 - 131%	PASS		
Acenaphthylene	Total	1.37	1	0.001	0.005	µg/L	1.5	0	91	43 - 140%	PASS		
Anthracene	Total	1.47	1	0.001	0.005	µg/L	1.5	0	98	58 - 135%	PASS		
Benz[a]anthracene	Total	1.53	1	0.001	0.005	µg/L	1.5	0	102	55 - 145%	PASS		
Benzo[a]pyrene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	1.51	1	0.001	0.005	µg/L	1.5	0	101	46 - 165%	PASS		
Benzo[e]pyrene	Total	0.469	1	0.001	0.005	µg/L	0.5	0	94	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	1.41	1	0.001	0.005	µg/L	1.5	0	94	56 - 145%	PASS		
Biphenyl	Total	0.434	1	0.001	0.005	µg/L	0.5	0	87	56 - 119%	PASS		
Chrysene	Total	1.46	1	0.001	0.005	µg/L	1.5	0	97	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	1.53	1	0.001	0.005	µg/L	1.5	0	102	55 - 150%	PASS		
Dibenzo[a,l]pyrene	Total	0.171	1	0.001	0.005	µg/L	0.25	0	68	50 - 150%	PASS		
Dibenzothiophene	Total	0.457	1	0.001	0.005	µg/L	0.5	0	91	75 - 113%	PASS		

PHYSIS Project ID: 1407003-322
Client: Eurofins Eaton Analytical
Project: RED-HILL Project # 38001111 Job # 380-24805-1

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Fluoranthene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	60 - 146%	PASS			
Fluorene	Total	1.42	1	0.001	0.005	µg/L	1.5	0	95	58 - 131%	PASS			
Indeno[1,2,3-cd]pyrene	Total	1.59	1	0.001	0.005	µg/L	1.5	0	106	50 - 151%	PASS			
Naphthalene	Total	1.23	1	0.001	0.005	µg/L	1.5	0	82	41 - 126%	PASS			
Perylene	Total	0.476	1	0.001	0.005	µg/L	0.5	0	95	48 - 141%	PASS			
Phenanthrene	Total	1.45	1	0.001	0.005	µg/L	1.5	0	97	67 - 127%	PASS			
Pyrene	Total	1.6	1	0.001	0.005	µg/L	1.5	0	107	54 - 156%	PASS			

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODEc
Sample ID: 100921-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**					**Received:**		
		Method: EPA 625.1				Batch ID: O-40006		Prepared: 18-Oct-22					Analyzed: 13-Nov-22		
(d10-Acenaphthene)	Total	71	1			% Recovery	100	0	71	27 - 133%	PASS	18	30	PASS	
(d10-Phenanthrene)	Total	93	1			% Recovery	100	0	93	43 - 129%	PASS	2	30	PASS	
(d12-Chrysene)	Total	93	1			% Recovery	100	0	93	52 - 144%	PASS	2	30	PASS	
(d12-Perylene)	Total	97	1			% Recovery	100	0	97	36 - 161%	PASS	5	30	PASS	
(d8-Naphthalene)	Total	68	1			% Recovery	100	0	68	25 - 125%	PASS	14	30	PASS	
1-Methylnaphthalene	Total	0.383	1	0.001	0.005	µg/L	0.5	0	77	31 - 128%	PASS	5	30	PASS	
1-Methylphenanthrene	Total	0.465	1	0.001	0.005	µg/L	0.5	0	93	66 - 127%	PASS	1	30	PASS	
2,3,5-Trimethylnaphthalene	Total	0.366	1	0.001	0.005	µg/L	0.5	0	73	55 - 122%	PASS	15	30	PASS	
2,6-Dimethylnaphthalene	Total	0.399	1	0.001	0.005	µg/L	0.5	0	80	48 - 120%	PASS	4	30	PASS	
2-Methylnaphthalene	Total	1.15	1	0.001	0.005	µg/L	1.5	0	77	47 - 130%	PASS	11	30	PASS	
Acenaphthene	Total	1.13	1	0.001	0.005	µg/L	1.5	0	75	53 - 131%	PASS	17	30	PASS	
Acenaphthylene	Total	1.17	1	0.001	0.005	µg/L	1.5	0	78	43 - 140%	PASS	15	30	PASS	
Anthracene	Total	1.52	1	0.001	0.005	µg/L	1.5	0	101	58 - 135%	PASS	3	30	PASS	
Benz[a]anthracene	Total	1.55	1	0.001	0.005	µg/L	1.5	0	103	55 - 145%	PASS	1	30	PASS	
Benzo[a]pyrene	Total	1.53	1	0.001	0.005	µg/L	1.5	0	102	51 - 143%	PASS	5	30	PASS	
Benzo[b]fluoranthene	Total	1.53	1	0.001	0.005	µg/L	1.5	0	102	46 - 165%	PASS	1	30	PASS	
Benzo[e]pyrene	Total	0.487	1	0.001	0.005	µg/L	0.5	0	97	42 - 152%	PASS	3	30	PASS	
Benzo[g,h,i]perylene	Total	1.57	1	0.001	0.005	µg/L	1.5	0	105	63 - 133%	PASS	2	30	PASS	
Benzo[k]fluoranthene	Total	1.42	1	0.001	0.005	µg/L	1.5	0	95	56 - 145%	PASS	1	30	PASS	
Biphenyl	Total	0.418	1	0.001	0.005	µg/L	0.5	0	84	56 - 119%	PASS	4	30	PASS	
Chrysene	Total	1.46	1	0.001	0.005	µg/L	1.5	0	97	56 - 141%	PASS	0	30	PASS	
Dibenz[a,h]anthracene	Total	1.58	1	0.001	0.005	µg/L	1.5	0	105	55 - 150%	PASS	3	30	PASS	
Dibenzo[a,l]pyrene	Total	0.185	1	0.001	0.005	µg/L	0.25	0	74	50 - 150%	PASS	8	30	PASS	
Dibenzothiophene	Total	0.478	1	0.001	0.005	µg/L	0.5	0	96	75 - 113%	PASS	5	30	PASS	

PHYSIS Project ID: 1407003-322
Client: Eurofins Eaton Analytical
Project: RED-HILL Project # 38001111 Job # 380-24805-1

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODEc
Fluoranthene	Total	1.63	1	0.001	0.005	µg/L	1.5	0	109	60 - 146%	PASS	3	30	PASS	
Fluorene	Total	1.25	1	0.001	0.005	µg/L	1.5	0	83	58 - 131%	PASS	13	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	1.67	1	0.001	0.005	µg/L	1.5	0	111	50 - 151%	PASS	5	30	PASS	
Naphthalene	Total	1.06	1	0.001	0.005	µg/L	1.5	0	71	41 - 126%	PASS	14	30	PASS	
Perylene	Total	0.505	1	0.001	0.005	µg/L	0.5	0	101	48 - 141%	PASS	6	30	PASS	
Phenanthrene	Total	1.48	1	0.001	0.005	µg/L	1.5	0	99	67 - 127%	PASS	2	30	PASS	
Pyrene	Total	1.6	1	0.001	0.005	µg/L	1.5	0	107	54 - 156%	PASS	0	30	PASS	

TENTATIVELY IDENTIFIED COMPOUNDS

Sample ID: 100922

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
32.2430	7.5826	1111	Anthracene-D10-	1517-22-2	96
29.2433	4.4005	645	Benzoic acid, 2-ethylhexyl ester	5444-75-7	99
41.3279	1.5052	221	Cyclic octaatomic sulfur	10544-50-0	98

Concentration estimated using the response for Anthracene-d10

Sample ID: Lab Blank B1_40006

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
32.2467	6.6606	1111	Anthracene-D10-	1517-22-2	96
			No TICs met the search criteria in this sample		

Concentration estimated using the response for Anthracene-d10

CHAIN OF CUSTODY

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

Chain of Custody Record

eurofins | Environment Testing America

12/16/2022

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-24908.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Physis Environmental Laboratories		Accreditations Required (See note): State - Hawaii		Job #: 380-24805-1
Address: 1904 Wright Circle, ,	Due Date Requested: 11/1/2022			
City: Anaheim	TAT Requested (days):			
State, Zip: CA, 92806				
Phone:	PO #:			
Email:	WO #:			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#:			

Analysis Requested

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 - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (625 Acid/Base/PAH + TICs)/ 625 Acid/Base/PAH + TICs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-24805-1)	10/17/22	11:04 Hawaiian		Water			X	6	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/tests/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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/19/22 1349	EEA	Ashley Gonzalez	10/19/22 13:50	Physis
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:

Ver: 06/08/2021

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS

Project Iteration ID: 1407003-322
Client Name: Eurofins Eaton Analytical
Project Name: RED-HILL Project # 38001111 Job # 380-24805-1
COC Page Number: 2 of 2
Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: AG
2. Date Received: 10/19/22
3. Time Received: MS 13:49
4. Client Name: Eurofins (Red Hill)
5. Courier Information: (Please circle)
   - (Client)
   - UPS
   - Area Fast
   - DRS
   - FedEx
   - GSO/GLS
   - Ontrac
   - PAMS
   - PHYSIS Driver:
     - i. Start Time:_____
     - ii. End Time:_____
     - iii. Total Mileage:_____
     - iv. Number of Pickups:_____
6. Container Information: (Please put the # of containers or circle none)
   - 1 Cooler
   - ___ Styrofoam Cooler
   - ___ Boxes
   - None
   - ___ Carboy(s)
   - ___ Carboy Trash Can(s)
   - ___ Carboy Cap(s)
   - Other _____
7. What type of ice was used: (Please circle any that apply)
   - (Wet Ice)
   - Blue Ice
   - Dry Ice
   - Water
   - None
8. Randomly Selected Samples Temperature (°C): 1.8 Used I/R Thermometer # 1

Inspection Info

1. Initials Inspected By: RGH

Sample Integrity Upon Receipt:

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

Notes:

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: BAILEY	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-15739-1845.1
Client Contact: Dr. Ron Fenstemacher	Phone: 1-808-748-5840	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin:	Page: Page 1 of 3
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5091(Tel)	PO #: C20525101 exp 05312023			
Email: RFENSTEMACHER@hbws.org	WO #:			
Project Name: RED-HILL	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

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 - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	504.1_PREC, 505_LL_PREC	2320B, 2510B, SM4500_H+	200.7, 200.8	2540C_Calcd - Total Dissolved Solids (TDS)	SM4500_S2_D - Sulfide, Total	524.2_Pres_PREC, 524.2_SIM_PREC	525.2_PREC - 525plus Plus TICs	300_OF_28D_B, 300_OF_28D_PREC, 300_OF_48H_PREC, 4500_F_C	245.1 - Local Method	SUBCONTRACT - 8015 Jet Fuel 8 (JP8)	SUBCONTRACT - 8015 Jet Fuel 5 (JP5)	SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	N	D	N	CB	HA		N	D	RA	RA	RA	R		
AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Oct.17,2022	1104	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X		COOLER 1 OF 4 FEDEX 7702 2954 7767 751A 3.3-3.1/GEL ICE-FROZEN
AIEA GULCH WELLS PUMP 2 (331-202-TP072)				Water																	
AIEA WELLS P___ (260) (331-00___-WL10__)				Water																	COOLER 2 OF 4 FEDEX 7702 2954 7046 630A 5.2-5.1/GEL ICE-FROZEN
HALAWA WELLS UNITS 1 & 2 (331-206-TP065)				Water																	
MOANALUA WELLS (331-223-TP202)				Water																	COOLER 3 OF 4 FEDEX 7702 2954 7859 630A 5.7-5.6/GEL ICE-FROZEN
HALAWA SHAFT VIEW POOL (331-241-TP401)				Water																	
KAAMILO WELLS (331-261-TP008)				Water																	COOLER 4 OF 4 FEDEX 7702 2954 7642 630A 5.8-5.7/GEL ICE-FROZEN
TB: AIEA GULCH WELLS PUMP 1				Water																	
TB: AIEA GULCH WELLS PUMP 2	Oct.17,2022	1104		Water			X					X							X		
TB: AIEA WELLS PUMPS1&2(260)				Water																	
TB: HALAWA WELLS UNITS 1 & 2				Water																	

380-24805 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx 7702 2954 7767

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: [redacted]	Oct.17,2022 1400	HBWS		10/18/22 0940	FEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 751A/3.3~3.1/Gel Ice

Ver: 06/08/2021

12/16/2022

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: BAILEY	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-15739-1845.2
Client Contact: Dr. Ron Fenstemacher	Phone: 1-808 748 5840	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin:	Page: Page 2 of 3
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5091(Tel)	PO #: C20525101 exp 05312023			
Email: RFENSTEMACHER@hbws.org	WO #:			
Project Name: RED-HILL	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

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 - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - 8015 Ethanol	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	SUBCONTRACT - 625 Base Neutral LL (EAL) Physis	SUBCONTRACT - 625 Acid LL (EAL) Physis	524.3_SIM_PREC - Low Level TCP/EDB/DBCP	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	504.1_PREC - Local Method							Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	R	R	R	R		RA	R							X	
AIEA GULCH WELLS PUMP 1 (331-201-TP071)				Water																	COOLER 1 OF 4 FED EX 7702 2954 7767
AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Oct. 17, 2022	1104	G	Water				X	X	X	X	X	X								751A 3.3-3.1 / GEL ICE - FROZEN
AIEA WELLS P___ (260) (331-00___-WL10__)				Water																	COOLER 2 OF 4 FED EX 7702 2954 7046
HALAWA WELLS UNITS 1 & 2 (331-206-TP085)				Water																	630A 5.2-5.1 / GEL ICE - FROZEN
MOANALUA WELLS (331-223-TP202)				Water																	COOLER 3 OF 4 FED EX 7702 2954 7859
HALAWA SHAFT VIEW POOL (331-241-TP401)				Water																	630A 5.7-5.6 / GEL ICE - FROZEN
KAAMILO WELLS (331-261-TP008)				Water																	COOLER 4 OF 4 FED EX 7702 2954 7642
TB: AIEA GULCH WELLS PUMP 1				Water																	630A 5.8-5.7 / GEL ICE - FROZEN
TB: AIEA GULCH WELLS PUMP 2	Oct. 17, 2022	1104		Water							X										
TB: AIEA WELLS PUMPS1&2(260)				Water																	
TB: HALAWA WELLS UNITS 1 & 2				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	BAILEY	Oct. 17, 2022 1400	HBWS		10/18/22 0940	EEA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 751A / 3.3 ~ 3.1 / GEL ICE

Ver: 06/08/2021

Bottle Order Information

Bottle Order: RED-HILL - Quarterly
Bottle Order #: 1845
Request From Client: 9/14/2022
Date Order Posted: 6/23/2022 7:29:27AM
Order Status: Ready To Process
Prepared By: Davis Haley
Deliver By Date: ***9/23/2022 11:59:00PM***
Lab Project Number: 38001111
PWSID: HI00000331-201-TP071, HI00000331-202-TP072, HI0000

Order Completion Information

Creator: Michelle Do
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
7	6	42	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	504.1_PREC - Local Method	Water	Normal		
					505_LL_PREC - (MOD) ML505 +505-EAL Aldrin Dieldrin Tox	Water	Normal		
7	1	7	Plastic 250ml - unpreserved	None	2320B - (MOD) Total Alkalinity	Water	Normal		
					SM4500_H+ - Local Method	Water	Normal		
					2510B - Conductivity	Water	Normal		
7	1	7	Plastic 500ml - with Nitric Acid	Nitric Acid	200.8 - Metals, Priority Pollutant by 200.8	Water	Normal		
					200.7 - (MOD) Custom	Water	Normal		
7	1	7	Plastic 500ml - unpreserved	None	2540C_Calcd - Total Dissolved Solids (TDS)	Water	Normal		
7	1	7	Plastic 250ml - with Zinc Acetate & NaOH	Zinc Acetate and Sodium Hydroxide	SM4500_S2_D - Sulfide, Total	Water	Normal		
7	6	42	Voa Vial 40ml Amber - Ascor. Acid & HCL	Ascorbic Acid and Hydrochloric Acid	524.2_Pres_PREC - VOASDWA plus TICs + Acetone	Water	Normal		
					524.2_SIM_PREC - TBA by 524.2 SIM	Water	Normal		
7	3	21	Amber Glass 1 Liter- Sodium Sulfite/HCl	Sodium Sulfite w/HCl	525.2_PREC - 525plus Plus TICs	Water	Normal		
7	2	14	Plastic 125mL - unpreserved	None	300_OF_28D_B - Bromide	Water	Normal		
					4500_F_C - Fluoride	Water	Normal		
					300_OF_28D_PREC - Chloride and Sulfate	Water	Normal		
					300_OF_48H_PREC - Nitrite, Nitrate, and Nitrite+Nitrate	Water	Normal		
7	1	7	Plastic 250ml - with Nitric Acid	Nitric Acid	245.1 - Local Method	Water	Normal		

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

7	2	14	Amber Glass 1 L - NaThiosulfate 8mL HCL	Sodium Thiosulfate/Hydrochloric Acid	SUBCONTRACT - 8015 Jet Fuel 8 (JP8)	Water	Normal		
7	2	14	Amber Glass 1 L - NaThiosulfate 8mL HCL	Sodium Thiosulfate/Hydrochloric Acid	SUBCONTRACT - 8015 Jet Fuel 5 (JP5)	Water	Normal		
7	2	14	Amber Glass 1 L - NaThiosulfate 8mL HCL	Sodium Thiosulfate/Hydrochloric Acid	SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil	Water	Normal		
7	3	21	Voa Vial 40ml - SodiumThio w/HCl-dropper	Sodium Thiosulfate	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Water	Normal		
7	3	21	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 8015 Ethanol	Water	Normal		
7	2	14	Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	Water	Normal		
7	2	14	Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 625 Base Neutral LL (EAL) Physis	Water	Normal		
7	2	14	Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 625 Acid LL (EAL) Physis	Water	Normal		
7	3	21	Voa Vial 40ml Amber - Ascorbic & Maleic	Ascorbic Acid/Maleic	524.3_SIM_PREC - Low Level TCP/EDB/DBCP	Water	Normal		
7	2	14	VOA Vial 40mL - NaThiosulfate/HCL	Sodium Thiosulfate/Hydrochloric Acid	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	Water	Trip Blank		
7	6	42	Voa Vial 40ml Amber - Ascor. Acid & HCL	Ascorbic Acid and Hydrochloric Acid	524.2_Pres_PREC - VOASDWA plus TICs + Acetone	Water	Trip Blank		
					524.2_SIM_PREC - TBA by 524.2 SIM	Water	Trip Blank		
7	3	21	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	504.1_PREC - Local Method	Water	Trip Blank		
7	2	14	Voa Vial 40ml Amber - Ascorbic & Maleic	Ascorbic Acid/Maleic	524.3_SIM_PREC - Low Level TCP/EDB/DBCP	Water	Trip Blank		

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Total Bottle Summary

Bottle Type Description	Preservative	Bottle Count
Amber Glass 1 L - NaThiosulfate 8mL HCL	Sodium Thiosulfate/Hydrochloric Acic	42
Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	42
Amber Glass 1 Liter- Sodium Sulfite/HCl	Sodium Sulfite w/HCl	21
Plastic 125mL - unpreserved	None	14
Plastic 250ml - unpreserved	None	7
Plastic 250ml - with Nitric Acid	Nitric Acid	7
Plastic 250ml - with Zinc Acetate & NaOH	Zinc Acetate and Sodium Hydroxide	7
Plastic 500ml - unpreserved	None	7
Plastic 500ml - with Nitric Acid	Nitric Acid	7
VOA Vial 40mL - NaThiosulfate/HCL	Sodium Thiosulfate/Hydrochloric Acic	14
Voa Vial 40ml - SodiumThio w/HCl-dropper	Sodium Thiosulfate	21
Voa Vial 40ml Amber - Ascor. Acid & HCL	Ascorbic Acid and Hydrochloric Acid	84
Voa Vial 40ml Amber - Ascorbic & Maleic	Ascorbic Acid/Maleic	35
Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	84
	Total Bottles:	392

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 625, 8015, 524.2, and 525.2

FOLLOW 2 STAGE FIELD PRESERVATION FOR 8015, 525.2, 524.2
USE ALTERNATE SAMPLING POINTS FOR:
(331-203-TP400) AIEA WELLS PUMPS 1&2 (260) AIEA WELLS P__ (260)-331-00__-WL10__ UPDATE BLANKS WITH APPROPRIATE SAMPLE POINT DESCRIPTORS. USE FULL CORRECT ID ON CHAIN OF CUSTODY
AIEA WELLS P1 (260)-331-003-WL102
AIEA WELLS P2 (260)-331-004-WL103
(331-241-TP401) HALAWA SHAFT
Halawa Shaft Viewing Pool

Health and Safety Notes:

Preservative	Comment
Ascorbic Acid and Hydrochloric Acid	Contains 25mg/ml Ascorbic Acid. May cause mild irritation to skin and eyes. CAUTION! CONTAINS 1:1 HYDROCHLORIC ACID. Avoid skin and eye contact. If conta made, FLUSH IMMEDIATELY with water.
Ascorbic Acid/Maleic	CAUTION! May cause eye, skin, and respiratory tract irritation
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye cont If contact is made, FLUSH IMMEDIATELY with water.
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 w
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 w 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 conta made, FLUSH IMMEDIATELY with water.
Zinc Acetate and Sodium Hydroxide	Contains 2N Zinc Acetate. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water. CAUTION! STRONG CAUSTIC! CONTAINS SODIUM HYDROXIDE PELLETS. Avoid sk and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

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.

Shipping Order Form - Bottle Order

eurofins | Environment Testing America

S380-15739

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

Shipping Order ID: 15739 | **Ship Via: FedEx** | **Due On: 9/23/2022 11:59:00PM**

Ship To Information

Project Manager: Rachelle Arada
Tel: (626) 386-1106 Em: Rachelle.Arada@et.eurofinsus.com
Company Name: City & County of Honolulu
Attention: Ron Fenstemacher
Address 1: 630 South Beretania Street
Address 2: Chemistry Lab
Address 3:
City: Honolulu
State: HI
Zip: 96843
Phone #: +1-808-748-5841
Project Ref: RED-HILL

Notes to Bottle/Shipping Department

Pack with Gel Ice
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 bottle labels (with one full set of tests per sample ID)
Send only medium to large coolers
Travel Blanks must be packed in same cooler with their respective field test (524 travel blanks must be packed with 524 vials)

CALL ROBERT DEAN IF THERE ARE QUESTIONS.

Shipping Method: **Pack by sample set (affixed TALS labels)**

- ☑ Ready to Fill
- ☑ Preprinted COC
  - 1 Number of COC Copies
- ☐ Seals on Bottle
- ☐ Seals on Coolers
- ☐ Priority
- ☐ Return Shipment Labels
  - ☐ Prepaid Return
  - Monrovia, CA (Suite 100)
- ☐ Short Hold Times
- ☑ Temperature Control
- ☐ Rush

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

Shipping Assets

Assets	Quantity	Description	Filled
Gel Ice	1	Pack with Gel Ice	☐

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-24898.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Eaton Analytical		Accreditations Required (See note): State - Hawaii		Job #: 380-24805-1
Address: 110 S Hill Street, ,	Due Date Requested: 11/7/2022			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#:			

Analysis Requested

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 - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.3_SIM_PREC/ Low Level TCP/EDB/DBCP	245.1/245.1_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-24805-1)	10/17/22	11:04 Hawaiian		Water			X	X	4	✓
TB: AIEA GULCH WELLS PUMP 2 (380-24805-2)	10/17/22	11:04 Hawaiian		Water			X		2	✓

pH Acceptable

Client Provided Sample Container

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/tests/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 complicance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-19-22 733	EEA		10-20-22 0545	EEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0 wet

Rev. 06/08/2021

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-24805-1

Login Number: 24805
List Number: 1
Creator: Elyas, Matthew

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	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-24805-1

Login Number: 24805
List Number: 2
Creator: Spurgeon, Sheri

List Source: Eurofins Eaton South Bend
List Creation: 10/20/22 01:34 PM

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