

ANALYTICAL REPORT

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Laboratory Job ID: 580-108952-1
Client Project/Site: CV22F0106
Revision: 2

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



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Case Narrative

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Job ID: 580-108952-1

Laboratory: Eurofins Seattle

Narrative

Report revised 1/13/2022 to provide the following additional information regarding the original DRO results:

For SDG 580-108952, the DRO analysis was inadvertently logged in using 1L containers when we received 250mL containers which were used for the analysis. The initial sample volume is a factor in the RL and MDL calculations so the limits were incorrectly elevated four times in the report. By revising the log in to reflect the correct initial sample volume, the calculation of both the RL and MDL were corrected.

Report revised 1/12/2022 to correct the DRO results - the incorrect container volume was used in the calculation (1L instead of 250 mL).

Job Narrative 580-108952-1

Comments

No additional comments.

Receipt

The samples were received on 1/5/2022 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270E: The following analyte have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Hexachlorocyclopentadiene. These analytes may have a %D >60%.

Method 8270E: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-377665 was outside criteria for the following analytes: Bis(2-chloroethyl)ether and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analytes is considered estimated.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-377587 and analytical batch 580-377665 recovered outside control limits. The individual recoveries of both the LCS and LCSD met the acceptance criteria.

Method 8270E: The following analyte has been identified, in the reference method and/or via historical data, to be a poor and/or erratic performer: Hexachlorocyclopentadiene. This analyte may have a %D <60%; the data have been qualified and reported. 20220104-F1-TY-02 (580-108952-2).

Method 8270E: Surrogate recovery for the following sample was outside control limits: 20220104-F1-TY-02 (580-108952-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

Organic Prep

Methods 3510C, CWA_Prep: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-377587, so a laboratory control sample/laboratory control sample duplicate were created and substituted for the MS/MSD/DUP.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-377700. Laboratory control sample/ laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

Case Narrative

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Job ID: 580-108952-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

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

VOA Prep

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

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Definitions/Glossary

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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.
Q	One or more quality control criteria failed.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-F1-TY-01

Lab Sample ID: 580-108952-1

Date Collected: 01/04/22 14:00

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	0.031	U	0.10	0.031	mg/L			01/05/22 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		69 - 133		01/05/22 15:02	1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.39	U	1.0	0.39	ug/L			01/05/22 15:02	1
1,1,2,2-Tetrachloroethane	0.52	U	1.0	0.52	ug/L			01/05/22 15:02	1
1,1,2-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/05/22 15:02	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			01/05/22 15:02	1
1,1-Dichloroethene	0.28	U	1.0	0.28	ug/L			01/05/22 15:02	1
1,2-Dichloroethane	0.42	U	1.0	0.42	ug/L			01/05/22 15:02	1
1,2-Dichloroethene, Total	0.39	U	1.0	0.39	ug/L			01/05/22 15:02	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			01/05/22 15:02	1
2-Hexanone	4.0	U	15	4.0	ug/L			01/05/22 15:02	1
4-Methyl-2-pentanone (MIBK)	2.5	U	5.0	2.5	ug/L			01/05/22 15:02	1
Acetone	3.2	U	15	3.2	ug/L			01/05/22 15:02	1
Benzene	0.24	U	1.0	0.24	ug/L			01/05/22 15:02	1
Dichlorobromomethane	0.29	U	1.0	0.29	ug/L			01/05/22 15:02	1
Bromoform	0.51	U	1.0	0.51	ug/L			01/05/22 15:02	1
Bromomethane	0.21	U	1.0	0.21	ug/L			01/05/22 15:02	1
Carbon disulfide	0.53	U	1.0	0.53	ug/L			01/05/22 15:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/05/22 15:02	1
trans-1,2-Dichloroethene	0.39	U	1.0	0.39	ug/L			01/05/22 15:02	1
Chlorobenzene	0.44	U	1.0	0.44	ug/L			01/05/22 15:02	1
Chloroform	0.26	U	1.0	0.26	ug/L			01/05/22 15:02	1
Chloromethane	0.28	U	1.0	0.28	ug/L			01/05/22 15:02	1
cis-1,3-Dichloropropene	0.20	U	1.0	0.20	ug/L			01/05/22 15:02	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			01/05/22 15:02	1
1,2-Dibromo-3-Chloropropane	0.57	U	3.0	0.57	ug/L			01/05/22 15:02	1
cis-1,2-Dichloroethene	0.35	U	1.0	0.35	ug/L			01/05/22 15:02	1
Methylene Chloride	1.4	U	3.0	1.4	ug/L			01/05/22 15:02	1
Chloroethane	0.35	U	1.0	0.35	ug/L			01/05/22 15:02	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			01/05/22 15:02	1
2-Butanone (MEK)	4.7	U	15	4.7	ug/L			01/05/22 15:02	1
m-Xylene & p-Xylene	0.53	U	2.0	0.53	ug/L			01/05/22 15:02	1
o-Xylene	0.39	U	1.0	0.39	ug/L			01/05/22 15:02	1
Styrene	0.53	U	1.0	0.53	ug/L			01/05/22 15:02	1
Tetrachloroethene	0.41	U	1.0	0.41	ug/L			01/05/22 15:02	1
Toluene	0.39	U	1.0	0.39	ug/L			01/05/22 15:02	1
trans-1,3-Dichloropropene	0.41	U	1.0	0.41	ug/L			01/05/22 15:02	1
Trichloroethene	0.26	U	1.0	0.26	ug/L			01/05/22 15:02	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			01/05/22 15:02	1
Xylenes, Total	0.53	U	2.0	0.53	ug/L			01/05/22 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		01/05/22 15:02	1
4-Bromofluorobenzene (Surr)	106		85 - 114		01/05/22 15:02	1
Dibromofluoromethane (Surr)	102		80 - 119		01/05/22 15:02	1

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Client Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-F1-TY-01

Lab Sample ID: 580-108952-1

Date Collected: 01/04/22 14:00

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Toluene-d8 (Surr)	99		89 - 112		01/05/22 15:02	1

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Client Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-F1-TY-02

Lab Sample ID: 580-108952-2

Date Collected: 01/04/22 14:05

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	0.031	U	0.10	0.031	mg/L			01/05/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		69 - 133					01/05/22 15:27	1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.39	U	1.0	0.39	ug/L			01/05/22 15:27	1
1,1,2,2-Tetrachloroethane	0.52	U	1.0	0.52	ug/L			01/05/22 15:27	1
1,1,2-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/05/22 15:27	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			01/05/22 15:27	1
1,1-Dichloroethene	0.28	U	1.0	0.28	ug/L			01/05/22 15:27	1
1,2-Dichloroethane	0.42	U	1.0	0.42	ug/L			01/05/22 15:27	1
1,2-Dichloroethene, Total	0.39	U	1.0	0.39	ug/L			01/05/22 15:27	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			01/05/22 15:27	1
2-Hexanone	4.0	U	15	4.0	ug/L			01/05/22 15:27	1
4-Methyl-2-pentanone (MIBK)	2.5	U	5.0	2.5	ug/L			01/05/22 15:27	1
Acetone	3.2	U	15	3.2	ug/L			01/05/22 15:27	1
Benzene	0.24	U	1.0	0.24	ug/L			01/05/22 15:27	1
Dichlorobromomethane	0.29	U	1.0	0.29	ug/L			01/05/22 15:27	1
Bromoform	0.51	U	1.0	0.51	ug/L			01/05/22 15:27	1
Bromomethane	0.21	U	1.0	0.21	ug/L			01/05/22 15:27	1
Carbon disulfide	0.53	U	1.0	0.53	ug/L			01/05/22 15:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/05/22 15:27	1
trans-1,2-Dichloroethene	0.39	U	1.0	0.39	ug/L			01/05/22 15:27	1
Chlorobenzene	0.44	U	1.0	0.44	ug/L			01/05/22 15:27	1
Chloroform	0.26	U	1.0	0.26	ug/L			01/05/22 15:27	1
Chloromethane	0.28	U	1.0	0.28	ug/L			01/05/22 15:27	1
cis-1,3-Dichloropropene	0.20	U	1.0	0.20	ug/L			01/05/22 15:27	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			01/05/22 15:27	1
1,2-Dibromo-3-Chloropropane	0.57	U	3.0	0.57	ug/L			01/05/22 15:27	1
cis-1,2-Dichloroethene	0.35	U	1.0	0.35	ug/L			01/05/22 15:27	1
Methylene Chloride	1.4	U	3.0	1.4	ug/L			01/05/22 15:27	1
Chloroethane	0.35	U	1.0	0.35	ug/L			01/05/22 15:27	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			01/05/22 15:27	1
2-Butanone (MEK)	4.7	U	15	4.7	ug/L			01/05/22 15:27	1
m-Xylene & p-Xylene	0.53	U	2.0	0.53	ug/L			01/05/22 15:27	1
o-Xylene	0.39	U	1.0	0.39	ug/L			01/05/22 15:27	1
Styrene	0.53	U	1.0	0.53	ug/L			01/05/22 15:27	1
Tetrachloroethene	0.41	U	1.0	0.41	ug/L			01/05/22 15:27	1
Toluene	0.39	U	1.0	0.39	ug/L			01/05/22 15:27	1
trans-1,3-Dichloropropene	0.41	U	1.0	0.41	ug/L			01/05/22 15:27	1
Trichloroethene	0.26	U	1.0	0.26	ug/L			01/05/22 15:27	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			01/05/22 15:27	1
Xylenes, Total	0.53	U	2.0	0.53	ug/L			01/05/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118					01/05/22 15:27	1
4-Bromofluorobenzene (Surr)	101		85 - 114					01/05/22 15:27	1
Dibromofluoromethane (Surr)	103		80 - 119					01/05/22 15:27	1

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Client Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-F1-TY-02

Lab Sample ID: 580-108952-2

Date Collected: 01/04/22 14:05

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		89 - 112		01/05/22 15:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.052	U	0.41	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Acenaphthylene	0.062	U	1.0	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
Anthracene	0.052	U	1.0	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Benzo[a]anthracene	0.052	U *1	0.26	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Benzo[a]pyrene	0.041	U	0.26	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
Benzo[b]fluoranthene	0.041	U	0.26	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
Benzo[g,h,i]perylene	0.041	U	0.26	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
Benzo[k]fluoranthene	0.052	U *1	0.26	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Bis(2-chloroethoxy)methane	0.052	U	0.62	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Bis(2-chloroethyl)ether	0.031	U	0.10	0.031	ug/L		01/06/22 10:50	01/06/22 23:06	1
Bis(2-ethylhexyl) phthalate	0.76	U *1	3.1	0.76	ug/L		01/06/22 10:50	01/06/22 23:06	1
4-Bromophenyl phenyl ether	0.062	U	0.62	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
Butyl benzyl phthalate	0.28	U *1	4.1	0.28	ug/L		01/06/22 10:50	01/06/22 23:06	1
Carbazole	0.10	U	0.62	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
4-Chloroaniline	0.61	U	2.1	0.61	ug/L		01/06/22 10:50	01/06/22 23:06	1
4-Chloro-3-methylphenol	0.13	U	0.62	0.13	ug/L		01/06/22 10:50	01/06/22 23:06	1
2-Chloronaphthalene	0.072	U	1.0	0.072	ug/L		01/06/22 10:50	01/06/22 23:06	1
2-Chlorophenol	0.052	U	1.0	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
4-Chlorophenyl phenyl ether	0.052	U	0.62	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Chrysene	0.041	U *1	0.26	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
Dibenz(a,h)anthracene	0.072	U	0.26	0.072	ug/L		01/06/22 10:50	01/06/22 23:06	1
Dibenzofuran	0.10	U	0.41	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
Di-n-butyl phthalate	0.20	U	3.1	0.20	ug/L		01/06/22 10:50	01/06/22 23:06	1
1,2-Dichlorobenzene	0.052	U	0.41	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
1,3-Dichlorobenzene	0.041	U	0.41	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
1,4-Dichlorobenzene	0.041	U	0.41	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
3,3'-Dichlorobenzidine	0.27	U *1	1.0	0.27	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,4-Dichlorophenol	0.21	U *1	1.0	0.21	ug/L		01/06/22 10:50	01/06/22 23:06	1
Diethyl phthalate	0.15	U	1.0	0.15	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,4-Dimethylphenol	0.16	U	4.1	0.16	ug/L		01/06/22 10:50	01/06/22 23:06	1
Dimethyl phthalate	0.062	U	0.62	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
4,6-Dinitro-2-methylphenol	0.57	U	2.1	0.57	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,4-Dinitrophenol	1.6	U	5.2	1.6	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,4-Dinitrotoluene	0.10	U	1.0	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,6-Dinitrotoluene	0.10	U	0.41	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
Di-n-octyl phthalate	0.13	U	1.0	0.13	ug/L		01/06/22 10:50	01/06/22 23:06	1
Fluoranthene	0.062	U	0.26	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
Fluorene	0.052	U	0.26	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Hexachlorobenzene	0.041	U	0.62	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
Hexachlorobutadiene	0.062	U	1.0	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
Hexachlorocyclopentadiene	0.14	U Q	1.0	0.14	ug/L		01/06/22 10:50	01/06/22 23:06	1
Hexachloroethane	0.052	U	1.0	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
Indeno[1,2,3-cd]pyrene	0.13	U *1	0.41	0.13	ug/L		01/06/22 10:50	01/06/22 23:06	1
Isophorone	0.10	U	0.41	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
1-Methylnaphthalene	0.052	U	1.0	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1

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Client Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-F1-TY-02

Lab Sample ID: 580-108952-2

Date Collected: 01/04/22 14:05

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.062	U	0.41	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
2-Methylphenol	0.052	U	0.62	0.052	ug/L		01/06/22 10:50	01/06/22 23:06	1
3 & 4 Methylphenol	0.10	U	0.62	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
Naphthalene	0.16	U	0.41	0.16	ug/L		01/06/22 10:50	01/06/22 23:06	1
2-Nitroaniline	0.10	U	1.0	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
3-Nitroaniline	0.16	U	3.1	0.16	ug/L		01/06/22 10:50	01/06/22 23:06	1
4-Nitroaniline	0.22	U	2.1	0.22	ug/L		01/06/22 10:50	01/06/22 23:06	1
Nitrobenzene	0.041	U	1.0	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
4-Nitrophenol	1.8	U	10	1.8	ug/L		01/06/22 10:50	01/06/22 23:06	1
N-Nitrosodi-n-propylamine	0.062	U *1	0.41	0.062	ug/L		01/06/22 10:50	01/06/22 23:06	1
N-Nitrosodiphenylamine	0.072	U	1.0	0.072	ug/L		01/06/22 10:50	01/06/22 23:06	1
Pentachlorophenol	0.53	U	10	0.53	ug/L		01/06/22 10:50	01/06/22 23:06	1
Phenanthrene	0.12	U	1.0	0.12	ug/L		01/06/22 10:50	01/06/22 23:06	1
Phenol	0.37	U	1.0	0.37	ug/L		01/06/22 10:50	01/06/22 23:06	1
Pyrene	0.041	U	1.0	0.041	ug/L		01/06/22 10:50	01/06/22 23:06	1
1,2,4-Trichlorobenzene	0.093	U	0.41	0.093	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,4,5-Trichlorophenol	0.10	U	0.41	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1
2,4,6-Trichlorophenol	0.10	U	0.62	0.10	ug/L		01/06/22 10:50	01/06/22 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		44 - 119	01/06/22 10:50	01/06/22 23:06	1
2-Fluorophenol (Surr)	0.2	S1-	19 - 119	01/06/22 10:50	01/06/22 23:06	1
Nitrobenzene-d5 (Surr)	65		44 - 120	01/06/22 10:50	01/06/22 23:06	1
Phenol-d5 (Surr)	0.1	S1-	10 - 120	01/06/22 10:50	01/06/22 23:06	1
Terphenyl-d14	100		50 - 134	01/06/22 10:50	01/06/22 23:06	1
2,4,6-Tribromophenol	41	S1-	43 - 140	01/06/22 10:50	01/06/22 23:06	1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C25	0.089	U	0.11	0.089	mg/L		01/07/22 14:03	01/08/22 00:33	1
C24-C40	0.18	U	0.34	0.18	mg/L		01/07/22 14:03	01/08/22 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		56 - 125	01/07/22 14:03	01/08/22 00:33	1

Client Sample Results

Client: AECOM
 Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-A1-ZT02

Lab Sample ID: 580-108952-3

Date Collected: 01/04/22 10:45

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	0.031	U	0.10	0.031	mg/L			01/05/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		69 - 133					01/05/22 15:52	1



Client Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-A1-ZT03

Lab Sample ID: 580-108952-4

Date Collected: 01/04/22 10:50

Matrix: Water

Date Received: 01/05/22 07:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	0.031	U	0.10	0.031	mg/L			01/05/22 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		69 - 133					01/05/22 16:17	1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C25	0.092	U	0.11	0.092	mg/L		01/07/22 14:03	01/08/22 00:53	1
C24-C40	0.18	U	0.36	0.18	mg/L		01/07/22 14:03	01/08/22 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		56 - 125				01/07/22 14:03	01/08/22 00:53	1

QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-377704/5
Matrix: Water
Analysis Batch: 377704

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	0.031	U	0.10	0.031	mg/L			01/05/22 12:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		69 - 133					01/05/22 12:58	1

Lab Sample ID: LCS 580-377704/8
Matrix: Water
Analysis Batch: 377704

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (C6-C12)	1.00	1.04		mg/L		104	78 - 122
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		69 - 133				

Lab Sample ID: LCSD 580-377704/9
Matrix: Water
Analysis Batch: 377704

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
Gasoline Range Organics (C6-C12)	1.00	1.03		mg/L		103	78 - 122	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		69 - 133						

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-377707/5
Matrix: Water
Analysis Batch: 377707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.39	U	1.0	0.39	ug/L			01/05/22 12:58	1
1,1,2,2-Tetrachloroethane	0.52	U	1.0	0.52	ug/L			01/05/22 12:58	1
1,1,2-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/05/22 12:58	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			01/05/22 12:58	1
1,1-Dichloroethene	0.28	U	1.0	0.28	ug/L			01/05/22 12:58	1
1,2-Dichloroethane	0.42	U	1.0	0.42	ug/L			01/05/22 12:58	1
1,2-Dichloroethene, Total	0.39	U	1.0	0.39	ug/L			01/05/22 12:58	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			01/05/22 12:58	1
2-Hexanone	4.0	U	15	4.0	ug/L			01/05/22 12:58	1
4-Methyl-2-pentanone (MIBK)	2.5	U	5.0	2.5	ug/L			01/05/22 12:58	1
Acetone	3.2	U	15	3.2	ug/L			01/05/22 12:58	1
Benzene	0.24	U	1.0	0.24	ug/L			01/05/22 12:58	1
Dichlorobromomethane	0.29	U	1.0	0.29	ug/L			01/05/22 12:58	1
Bromoform	0.51	U	1.0	0.51	ug/L			01/05/22 12:58	1

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-377707/5
Matrix: Water
Analysis Batch: 377707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.21	U	1.0	0.21	ug/L			01/05/22 12:58	1
Carbon disulfide	0.53	U	1.0	0.53	ug/L			01/05/22 12:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/05/22 12:58	1
trans-1,2-Dichloroethene	0.39	U	1.0	0.39	ug/L			01/05/22 12:58	1
Chlorobenzene	0.44	U	1.0	0.44	ug/L			01/05/22 12:58	1
Chloroform	0.26	U	1.0	0.26	ug/L			01/05/22 12:58	1
Chloromethane	0.28	U	1.0	0.28	ug/L			01/05/22 12:58	1
cis-1,3-Dichloropropene	0.20	U	1.0	0.20	ug/L			01/05/22 12:58	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			01/05/22 12:58	1
1,2-Dibromo-3-Chloropropane	0.57	U	3.0	0.57	ug/L			01/05/22 12:58	1
cis-1,2-Dichloroethene	0.35	U	1.0	0.35	ug/L			01/05/22 12:58	1
Methylene Chloride	1.4	U	3.0	1.4	ug/L			01/05/22 12:58	1
Chloroethane	0.35	U	1.0	0.35	ug/L			01/05/22 12:58	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			01/05/22 12:58	1
2-Butanone (MEK)	4.7	U	15	4.7	ug/L			01/05/22 12:58	1
m-Xylene & p-Xylene	0.53	U	2.0	0.53	ug/L			01/05/22 12:58	1
o-Xylene	0.39	U	1.0	0.39	ug/L			01/05/22 12:58	1
Styrene	0.53	U	1.0	0.53	ug/L			01/05/22 12:58	1
Tetrachloroethene	0.41	U	1.0	0.41	ug/L			01/05/22 12:58	1
Toluene	0.39	U	1.0	0.39	ug/L			01/05/22 12:58	1
trans-1,3-Dichloropropene	0.41	U	1.0	0.41	ug/L			01/05/22 12:58	1
Trichloroethene	0.26	U	1.0	0.26	ug/L			01/05/22 12:58	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			01/05/22 12:58	1
Xylenes, Total	0.53	U	2.0	0.53	ug/L			01/05/22 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		01/05/22 12:58	1
4-Bromofluorobenzene (Surr)	107		85 - 114		01/05/22 12:58	1
Dibromofluoromethane (Surr)	100		80 - 119		01/05/22 12:58	1
Toluene-d8 (Surr)	105		89 - 112		01/05/22 12:58	1

Lab Sample ID: LCS 580-377707/6
Matrix: Water
Analysis Batch: 377707

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-Trichloroethane	10.0	10.3		ug/L		103	74 - 131
1,1,2,2-Tetrachloroethane	10.0	9.27		ug/L		93	71 - 121
1,1,2-Trichloroethane	10.0	9.86		ug/L		99	80 - 119
1,1-Dichloroethane	10.0	10.1		ug/L		101	77 - 125
1,1-Dichloroethene	10.0	10.4		ug/L		104	71 - 131
1,2-Dichloroethane	10.0	9.69		ug/L		97	73 - 128
1,2-Dichloroethene, Total	20.0	20.5		ug/L		103	78 - 123
1,2-Dichloropropane	10.0	9.98		ug/L		100	78 - 122
2-Hexanone	50.0	52.3		ug/L		105	57 - 139
4-Methyl-2-pentanone (MIBK)	50.0	51.9		ug/L		104	67 - 130
Acetone	50.0	47.5		ug/L		95	39 - 160
Benzene	10.0	10.4		ug/L		104	79 - 120

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-377707/6
Matrix: Water
Analysis Batch: 377707

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	10.0	10.2		ug/L		102	79 - 125
Bromoform	10.0	11.2		ug/L		112	66 - 130
Bromomethane	10.0	10.2		ug/L		102	53 - 141
Carbon disulfide	10.0	10.2		ug/L		102	64 - 133
Carbon tetrachloride	10.0	9.95		ug/L		99	72 - 136
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124
Chlorobenzene	10.0	10.3		ug/L		103	82 - 118
Chloroform	10.0	10.5		ug/L		105	79 - 124
Chloromethane	10.0	8.66		ug/L		87	50 - 139
cis-1,3-Dichloropropene	10.0	9.64		ug/L		96	75 - 124
Chlorodibromomethane	10.0	10.8		ug/L		108	74 - 126
1,2-Dibromo-3-Chloropropane	10.0	9.01		ug/L		90	62 - 128
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	78 - 123
Methylene Chloride	10.0	10.3		ug/L		103	74 - 124
Chloroethane	10.0	9.47		ug/L		95	60 - 138
Ethylbenzene	10.0	10.4		ug/L		104	79 - 121
2-Butanone (MEK)	50.0	51.6		ug/L		103	56 - 143
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 121
o-Xylene	10.0	10.5		ug/L		105	78 - 122
Styrene	10.0	10.2		ug/L		102	78 - 123
Tetrachloroethene	10.0	10.3		ug/L		103	74 - 129
Toluene	10.0	10.5		ug/L		105	80 - 121
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	73 - 127
Trichloroethene	10.0	10.6		ug/L		106	79 - 123
Vinyl chloride	10.0	9.61		ug/L		96	58 - 137
Xylenes, Total	20.0	20.7		ug/L		104	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		81 - 118
4-Bromofluorobenzene (Surr)	105		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCSD 580-377707/7
Matrix: Water
Analysis Batch: 377707

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-Trichloroethane	10.0	10.2		ug/L		102	74 - 131	2	20
1,1,1,2-Tetrachloroethane	10.0	9.52		ug/L		95	71 - 121	3	20
1,1,2-Trichloroethane	10.0	10.0		ug/L		100	80 - 119	2	20
1,1-Dichloroethane	10.0	9.95		ug/L		99	77 - 125	1	20
1,1-Dichloroethene	10.0	10.1		ug/L		101	71 - 131	2	20
1,2-Dichloroethane	10.0	9.94		ug/L		99	73 - 128	3	20
1,2-Dichloroethene, Total	20.0	20.4		ug/L		102	78 - 123	0	20
1,2-Dichloropropane	10.0	9.64		ug/L		96	78 - 122	3	20
2-Hexanone	50.0	54.5		ug/L		109	57 - 139	4	20
4-Methyl-2-pentanone (MIBK)	50.0	52.7		ug/L		105	67 - 130	1	20

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-377707/7
Matrix: Water
Analysis Batch: 377707

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
Acetone	50.0	49.5		ug/L		99	39 - 160	4	20
Benzene	10.0	10.4		ug/L		104	79 - 120	0	20
Dichlorobromomethane	10.0	10.1		ug/L		101	79 - 125	1	20
Bromoform	10.0	11.6		ug/L		116	66 - 130	4	20
Bromomethane	10.0	10.5		ug/L		105	53 - 141	3	20
Carbon disulfide	10.0	10.0		ug/L		100	64 - 133	2	20
Carbon tetrachloride	10.0	9.72		ug/L		97	72 - 136	2	20
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124	0	20
Chlorobenzene	10.0	10.1		ug/L		101	82 - 118	3	20
Chloroform	10.0	10.3		ug/L		103	79 - 124	1	20
Chloromethane	10.0	8.58		ug/L		86	50 - 139	1	20
cis-1,3-Dichloropropene	10.0	9.43		ug/L		94	75 - 124	2	20
Chlorodibromomethane	10.0	10.7		ug/L		107	74 - 126	1	20
1,2-Dibromo-3-Chloropropane	10.0	9.47		ug/L		95	62 - 128	5	20
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	78 - 123	0	20
Methylene Chloride	10.0	10.2		ug/L		102	74 - 124	1	20
Chloroethane	10.0	9.71		ug/L		97	60 - 138	3	20
Ethylbenzene	10.0	10.2		ug/L		102	79 - 121	2	20
2-Butanone (MEK)	50.0	54.3		ug/L		109	56 - 143	5	20
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 121	1	20
o-Xylene	10.0	10.3		ug/L		103	78 - 122	2	20
Styrene	10.0	10.1		ug/L		101	78 - 123	1	20
Tetrachloroethene	10.0	10.3		ug/L		103	74 - 129	0	20
Toluene	10.0	10.3		ug/L		103	80 - 121	2	20
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	73 - 127	3	20
Trichloroethene	10.0	10.4		ug/L		104	79 - 123	2	20
Vinyl chloride	10.0	9.57		ug/L		96	58 - 137	0	20
Xylenes, Total	20.0	20.4		ug/L		102	79 - 121	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	105		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	105		89 - 112

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-377587/1-A
Matrix: Water
Analysis Batch: 377665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.050	U	0.40	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Acenaphthylene	0.060	U	1.0	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
Anthracene	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Benzo[a]anthracene	0.050	U	0.25	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Benzo[a]pyrene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
Benzo[b]fluoranthene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
Benzo[g,h,i]perylene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-377587/1-A
Matrix: Water
Analysis Batch: 377665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377587

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[k]fluoranthene	0.050	U	0.25	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Bis(2-chloroethoxy)methane	0.050	U	0.60	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Bis(2-chloroethyl)ether	0.030	U	0.10	0.030	ug/L		01/06/22 10:50	01/06/22 21:57	1
Bis(2-ethylhexyl) phthalate	0.74	U	3.0	0.74	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Bromophenyl phenyl ether	0.060	U	0.60	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
Butyl benzyl phthalate	0.27	U	4.0	0.27	ug/L		01/06/22 10:50	01/06/22 21:57	1
Carbazole	0.10	U	0.60	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Chloroaniline	0.59	U	2.0	0.59	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Chloro-3-methylphenol	0.13	U	0.60	0.13	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Chloronaphthalene	0.070	U	1.0	0.070	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Chlorophenol	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Chlorophenyl phenyl ether	0.050	U	0.60	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Chrysene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
Dibenz(a,h)anthracene	0.070	U	0.25	0.070	ug/L		01/06/22 10:50	01/06/22 21:57	1
Dibenzofuran	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
Di-n-butyl phthalate	0.19	U	3.0	0.19	ug/L		01/06/22 10:50	01/06/22 21:57	1
1,2-Dichlorobenzene	0.050	U	0.40	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
1,3-Dichlorobenzene	0.040	U	0.40	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
1,4-Dichlorobenzene	0.040	U	0.40	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
3,3'-Dichlorobenzidine	0.26	U	1.0	0.26	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4-Dichlorophenol	0.20	U	1.0	0.20	ug/L		01/06/22 10:50	01/06/22 21:57	1
Diethyl phthalate	0.15	U	1.0	0.15	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4-Dimethylphenol	0.16	U	4.0	0.16	ug/L		01/06/22 10:50	01/06/22 21:57	1
Dimethyl phthalate	0.060	U	0.60	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
4,6-Dinitro-2-methylphenol	0.55	U	2.0	0.55	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4-Dinitrophenol	1.6	U	5.0	1.6	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4-Dinitrotoluene	0.10	U	1.0	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,6-Dinitrotoluene	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
Di-n-octyl phthalate	0.13	U	1.0	0.13	ug/L		01/06/22 10:50	01/06/22 21:57	1
Fluoranthene	0.060	U	0.25	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
Fluorene	0.050	U	0.25	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachlorobenzene	0.040	U	0.60	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachlorobutadiene	0.060	U	1.0	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachlorocyclopentadiene	0.14	U	1.0	0.14	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachloroethane	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Indeno[1,2,3-cd]pyrene	0.13	U	0.40	0.13	ug/L		01/06/22 10:50	01/06/22 21:57	1
Isophorone	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
1-Methylnaphthalene	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Methylnaphthalene	0.060	U	0.40	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Methylphenol	0.050	U	0.60	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
3 & 4 Methylphenol	0.10	U	0.60	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
Naphthalene	0.16	U	0.40	0.16	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Nitroaniline	0.10	U	1.0	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
3-Nitroaniline	0.16	U	3.0	0.16	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Nitroaniline	0.21	U	2.0	0.21	ug/L		01/06/22 10:50	01/06/22 21:57	1
Nitrobenzene	0.040	U	1.0	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Nitrophenol	1.7	U	10	1.7	ug/L		01/06/22 10:50	01/06/22 21:57	1
N-Nitrosodi-n-propylamine	0.060	U	0.40	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
N-Nitrosodiphenylamine	0.070	U	1.0	0.070	ug/L		01/06/22 10:50	01/06/22 21:57	1

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-377587/1-A
Matrix: Water
Analysis Batch: 377665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377587

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	0.51	U	10	0.51	ug/L		01/06/22 10:50	01/06/22 21:57	1
Phenanthrene	0.12	U	1.0	0.12	ug/L		01/06/22 10:50	01/06/22 21:57	1
Phenol	0.36	U	1.0	0.36	ug/L		01/06/22 10:50	01/06/22 21:57	1
Pyrene	0.040	U	1.0	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
1,2,4-Trichlorobenzene	0.090	U	0.40	0.090	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4,5-Trichlorophenol	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4,6-Trichlorophenol	0.10	U	0.60	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	60		44 - 119	01/06/22 10:50	01/06/22 21:57	1
2-Fluorophenol (Surr)	40		19 - 119	01/06/22 10:50	01/06/22 21:57	1
Nitrobenzene-d5 (Surr)	62		44 - 120	01/06/22 10:50	01/06/22 21:57	1
Phenol-d5 (Surr)	23		10 - 120	01/06/22 10:50	01/06/22 21:57	1
Terphenyl-d14	95		50 - 134	01/06/22 10:50	01/06/22 21:57	1
2,4,6-Tribromophenol	66		43 - 140	01/06/22 10:50	01/06/22 21:57	1

Lab Sample ID: LCS 580-377587/2-A
Matrix: Water
Analysis Batch: 377665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	2.00	1.32		ug/L		66	41 - 130
Anthracene	2.00	1.50		ug/L		75	57 - 123
Benzo[a]anthracene	2.00	1.40		ug/L		70	58 - 125
Benzo[a]pyrene	2.00	1.43		ug/L		71	54 - 128
Benzo[b]fluoranthene	2.00	1.45		ug/L		72	53 - 131
Benzo[g,h,i]perylene	2.00	1.40		ug/L		70	50 - 134
Benzo[k]fluoranthene	2.00	1.35		ug/L		68	57 - 129
Bis(2-chloroethoxy)methane	2.00	1.41		ug/L		71	48 - 120
Bis(2-ethylhexyl) phthalate	2.00	1.68	J	ug/L		84	55 - 135
4-Bromophenyl phenyl ether	2.00	1.39		ug/L		69	55 - 124
Butyl benzyl phthalate	2.00	1.65	J	ug/L		82	53 - 134
Carbazole	2.00	1.62		ug/L		81	60 - 122
4-Chloroaniline	2.00	1.17	J	ug/L		58	33 - 117
4-Chloro-3-methylphenol	2.00	1.25		ug/L		62	52 - 119
2-Chloronaphthalene	2.00	1.31		ug/L		66	40 - 116
2-Chlorophenol	2.00	1.25		ug/L		63	38 - 117
4-Chlorophenyl phenyl ether	2.00	1.43		ug/L		72	53 - 121
Chrysene	2.00	1.58		ug/L		79	59 - 123
Dibenz(a,h)anthracene	2.00	1.35		ug/L		67	51 - 134
Dibenzofuran	2.00	1.44		ug/L		72	53 - 118
Di-n-butyl phthalate	2.00	1.71	J	ug/L		85	59 - 127
1,2-Dichlorobenzene	2.00	1.11		ug/L		56	32 - 111
1,3-Dichlorobenzene	2.00	1.05		ug/L		52	28 - 110
1,4-Dichlorobenzene	2.00	1.07		ug/L		53	29 - 112
3,3'-Dichlorobenzidine	4.00	2.81		ug/L		70	27 - 129
2,4-Dichlorophenol	2.00	1.14		ug/L		57	47 - 121

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-377587/2-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	2.00	1.80		ug/L		90	56 - 125
2,4-Dimethylphenol	2.00	1.40	J	ug/L		70	31 - 124
Dimethyl phthalate	2.00	1.70		ug/L		85	45 - 127
4,6-Dinitro-2-methylphenol	4.00	2.37		ug/L		59	44 - 137
2,4-Dinitrophenol	4.00	2.61	J	ug/L		65	23 - 143
2,4-Dinitrotoluene	2.00	1.48		ug/L		74	57 - 128
2,6-Dinitrotoluene	2.00	1.42		ug/L		71	57 - 124
Di-n-octyl phthalate	2.00	1.61		ug/L		81	51 - 140
Fluoranthene	2.00	1.62		ug/L		81	57 - 128
Fluorene	2.00	1.50		ug/L		75	52 - 124
Hexachlorobenzene	2.00	1.29		ug/L		64	53 - 125
Hexachlorobutadiene	2.00	1.03		ug/L		51	22 - 124
Hexachlorocyclopentadiene	2.00	0.445	J	ug/L		22	20 - 125
Hexachloroethane	2.00	1.05		ug/L		53	21 - 115
Indeno[1,2,3-cd]pyrene	2.00	1.16		ug/L		58	52 - 134
Isophorone	2.00	1.42		ug/L		71	42 - 124
1-Methylnaphthalene	2.00	1.17		ug/L		58	41 - 119
2-Methylnaphthalene	2.00	1.26		ug/L		63	40 - 121
2-Methylphenol	2.00	1.19		ug/L		59	30 - 117
3 & 4 Methylphenol	2.00	1.13		ug/L		56	29 - 110
Naphthalene	2.00	1.14		ug/L		57	40 - 121
2-Nitroaniline	2.00	1.38		ug/L		69	55 - 127
3-Nitroaniline	2.00	1.37	J	ug/L		69	41 - 128
4-Nitroaniline	2.00	1.50	J	ug/L		75	70 - 125
Nitrobenzene	2.00	1.44		ug/L		72	45 - 121
4-Nitrophenol	4.00	1.85	J	ug/L		46	35 - 145
N-Nitrosodi-n-propylamine	2.00	1.46		ug/L		73	49 - 119
N-Nitrosodiphenylamine	2.00	1.43		ug/L		71	51 - 123
Pentachlorophenol	4.00	2.01	J	ug/L		50	35 - 138
Phenanthrene	2.00	1.41		ug/L		71	59 - 120
Phenol	2.00	0.602	J	ug/L		30	13 - 120
Pyrene	2.00	1.63		ug/L		82	57 - 126
1,2,4-Trichlorobenzene	2.00	1.12		ug/L		56	29 - 116
2,4,5-Trichlorophenol	2.00	1.51		ug/L		75	53 - 123
2,4,6-Trichlorophenol	2.00	1.24		ug/L		62	50 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	63		44 - 119
2-Fluorophenol (Surr)	43		19 - 119
Nitrobenzene-d5 (Surr)	70		44 - 120
Phenol-d5 (Surr)	27		10 - 120
Terphenyl-d14	88		50 - 134
2,4,6-Tribromophenol	77		43 - 140

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-377587/3-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit	
									%Rec.	RPD
Acenaphthene	2.00	1.52		ug/L		76	47 - 122	12		20
Acenaphthylene	2.00	1.56		ug/L		78	41 - 130	17		20
Anthracene	2.00	1.51		ug/L		75	57 - 123	0		20
Benzo[a]anthracene	2.00	1.76	*1	ug/L		88	58 - 125	23		20
Benzo[a]pyrene	2.00	1.74		ug/L		87	54 - 128	20		20
Benzo[b]fluoranthene	2.00	1.57		ug/L		78	53 - 131	8		20
Benzo[g,h,i]perylene	2.00	1.66		ug/L		83	50 - 134	17		20
Benzo[k]fluoranthene	2.00	1.91	*1	ug/L		96	57 - 129	34		20
Bis(2-chloroethoxy)methane	2.00	1.65		ug/L		83	48 - 120	16		20
Bis(2-ethylhexyl) phthalate	2.00	2.13	J *1	ug/L		106	55 - 135	23		20
4-Bromophenyl phenyl ether	2.00	1.50		ug/L		75	55 - 124	8		20
Butyl benzyl phthalate	2.00	2.06	J *1	ug/L		103	53 - 134	22		20
Carbazole	2.00	1.81		ug/L		90	60 - 122	11		20
4-Chloroaniline	2.00	1.09	J	ug/L		54	33 - 117	7		20
4-Chloro-3-methylphenol	2.00	1.50		ug/L		75	52 - 119	19		20
2-Chloronaphthalene	2.00	1.47		ug/L		73	40 - 116	11		20
2-Chlorophenol	2.00	1.47		ug/L		74	38 - 117	16		20
4-Chlorophenyl phenyl ether	2.00	1.65		ug/L		82	53 - 121	14		20
Chrysene	2.00	2.01	*1	ug/L		101	59 - 123	24		20
Dibenz(a,h)anthracene	2.00	1.61		ug/L		80	51 - 134	18		20
Dibenzofuran	2.00	1.64		ug/L		82	53 - 118	13		20
Di-n-butyl phthalate	2.00	1.89	J	ug/L		94	59 - 127	10		20
1,2-Dichlorobenzene	2.00	1.19		ug/L		59	32 - 111	7		20
1,3-Dichlorobenzene	2.00	1.11		ug/L		56	28 - 110	6		20
1,4-Dichlorobenzene	2.00	1.11		ug/L		56	29 - 112	4		20
3,3'-Dichlorobenzidine	4.00	3.47	*1	ug/L		87	27 - 129	21		20
2,4-Dichlorophenol	2.00	1.42	*1	ug/L		71	47 - 121	22		20
Diethyl phthalate	2.00	1.98		ug/L		99	56 - 125	10		20
2,4-Dimethylphenol	2.00	1.68	J	ug/L		84	31 - 124	18		20
Dimethyl phthalate	2.00	1.80		ug/L		90	45 - 127	6		20
4,6-Dinitro-2-methylphenol	4.00	2.74		ug/L		68	44 - 137	14		20
2,4-Dinitrophenol	4.00	3.21	J	ug/L		80	23 - 143	20		20
2,4-Dinitrotoluene	2.00	1.69		ug/L		84	57 - 128	13		20
2,6-Dinitrotoluene	2.00	1.65		ug/L		82	57 - 124	15		20
Di-n-octyl phthalate	2.00	1.97		ug/L		99	51 - 140	20		20
Fluoranthene	2.00	1.75		ug/L		87	57 - 128	8		20
Fluorene	2.00	1.66		ug/L		83	52 - 124	10		20
Hexachlorobenzene	2.00	1.46		ug/L		73	53 - 125	13		20
Hexachlorobutadiene	2.00	1.00		ug/L		50	22 - 124	2		20
Hexachlorocyclopentadiene	2.00	0.460	J	ug/L		23	20 - 125	3		20
Hexachloroethane	2.00	1.13		ug/L		56	21 - 115	7		20
Indeno[1,2,3-cd]pyrene	2.00	1.46	*1	ug/L		73	52 - 134	23		20
Isophorone	2.00	1.60		ug/L		80	42 - 124	12		20
1-Methylnaphthalene	2.00	1.35		ug/L		67	41 - 119	14		20
2-Methylnaphthalene	2.00	1.34		ug/L		67	40 - 121	6		20
2-Methylphenol	2.00	1.45		ug/L		73	30 - 117	20		20
3 & 4 Methylphenol	2.00	1.30		ug/L		65	29 - 110	14		20
Naphthalene	2.00	1.33		ug/L		66	40 - 121	15		20

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QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-377587/3-A
Matrix: Water
Analysis Batch: 377665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline	2.00	1.56		ug/L		78	55 - 127	12	20
3-Nitroaniline	2.00	1.44	J	ug/L		72	41 - 128	5	20
4-Nitroaniline	2.00	1.84	J	ug/L		92	70 - 125	20	20
Nitrobenzene	2.00	1.62		ug/L		81	45 - 121	12	20
4-Nitrophenol	4.00	1.95	J	ug/L		49	35 - 145	5	20
N-Nitrosodi-n-propylamine	2.00	1.80	*1	ug/L		90	49 - 119	21	20
N-Nitrosodiphenylamine	2.00	1.55		ug/L		78	51 - 123	9	20
Pentachlorophenol	4.00	2.13	J	ug/L		53	35 - 138	6	20
Phenanthrene	2.00	1.54		ug/L		77	59 - 120	8	20
Phenol	2.00	0.655	J	ug/L		33	13 - 120	8	20
Pyrene	2.00	1.78		ug/L		89	57 - 126	8	20
1,2,4-Trichlorobenzene	2.00	1.26		ug/L		63	29 - 116	12	20
2,4,5-Trichlorophenol	2.00	1.47		ug/L		73	53 - 123	3	20
2,4,6-Trichlorophenol	2.00	1.45		ug/L		73	50 - 125	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorobiphenyl	72		44 - 119
2-Fluorophenol (Surr)	51		19 - 119
Nitrobenzene-d5 (Surr)	82		44 - 120
Phenol-d5 (Surr)	31		10 - 120
Terphenyl-d14	96		50 - 134
2,4,6-Tribromophenol	80		43 - 140

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 580-377700/1-A
Matrix: Water
Analysis Batch: 377794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C25	0.090	U	0.11	0.090	mg/L		01/07/22 10:54	01/07/22 20:31	1
C24-C40	0.18	U	0.35	0.18	mg/L		01/07/22 10:54	01/07/22 20:31	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		56 - 125	01/07/22 10:54	01/07/22 20:31	1

Lab Sample ID: LCS 580-377700/2-A
Matrix: Water
Analysis Batch: 377794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C9-C25	4.00	2.87		mg/L		72	36 - 132
C24-C40	4.00	3.62		mg/L		91	41 - 113

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
o-Terphenyl	77		56 - 125

QC Sample Results

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 580-377700/3-A
Matrix: Water
Analysis Batch: 377794

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377700

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C9-C25	4.00	2.89		mg/L		72	36 - 132	1	20
C24-C40	4.00	3.57		mg/L		89	41 - 113	2	20
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
<i>o</i> -Terphenyl	76		56 - 125						



Lab Chronicle

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Client Sample ID: 20220104-F1-TY-01

Lab Sample ID: 580-108952-1

Date Collected: 01/04/22 14:00

Matrix: Water

Date Received: 01/05/22 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260/CALUFT DOD		1	377704	01/05/22 15:02	JSM	FGS SEA
Total/NA	Analysis	8260D		1	377707	01/05/22 15:02	JSM	FGS SEA

Client Sample ID: 20220104-F1-TY-02

Lab Sample ID: 580-108952-2

Date Collected: 01/04/22 14:05

Matrix: Water

Date Received: 01/05/22 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260/CALUFT DOD		1	377704	01/05/22 15:27	JSM	FGS SEA
Total/NA	Analysis	8260D		1	377707	01/05/22 15:27	JSM	FGS SEA
Total/NA	Prep	3510C			377587	01/06/22 10:50	M1E	FGS SEA
Total/NA	Analysis	8270E		1	377665	01/06/22 23:06	E1L	FGS SEA
Total/NA	Prep	3510C			377700	01/07/22 14:03	M1E	FGS SEA
Total/NA	Analysis	8015D DRO		1	377794	01/08/22 00:33	JAE	FGS SEA

Client Sample ID: 20220104-A1-ZT02

Lab Sample ID: 580-108952-3

Date Collected: 01/04/22 10:45

Matrix: Water

Date Received: 01/05/22 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260/CALUFT DOD		1	377704	01/05/22 15:52	JSM	FGS SEA

Client Sample ID: 20220104-A1-ZT03

Lab Sample ID: 580-108952-4

Date Collected: 01/04/22 10:50

Matrix: Water

Date Received: 01/05/22 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260/CALUFT DOD		1	377704	01/05/22 16:17	JSM	FGS SEA
Total/NA	Prep	3510C			377700	01/07/22 14:03	M1E	FGS SEA
Total/NA	Analysis	8015D DRO		1	377794	01/08/22 00:53	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2236	01-19-22

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
8260D		Water	1,2-Dichloroethene, Total



Sample Summary

Client: AECOM
Project/Site: CV22F0106

Job ID: 580-108952-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-108952-1	20220104-F1-TY-01	Water	01/04/22 14:00	01/05/22 07:55
580-108952-2	20220104-F1-TY-02	Water	01/04/22 14:05	01/05/22 07:55
580-108952-3	20220104-A1-ZT02	Water	01/04/22 10:45	01/05/22 07:55
580-108952-4	20220104-A1-ZT03	Water	01/04/22 10:50	01/05/22 07:55

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Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-108952-1

Login Number: 108952

List Source: Eurofins Seattle

List Number: 1

Creator: Vallelunga, Diana L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



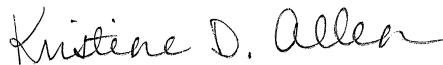
ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-109011-1
Client Project/Site: Red Hill CV18F0126

For:
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813

Attn: Margie F Pascua



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

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



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Case Narrative

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Job ID: 580-109011-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative 580-109011-1

Comments

No additional comments.

Receipt

The samples were received on 1/6/2022 10:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8° C.

GC/MS VOA

Methods 8260/CALUFT DOD, 8260B/CA_LUFTMS: Internal standard, Chlorobenzene-d5, is low in the method blank. This creates a high bias in the surrogate for the method blank. IS recovery is within limits for all samples and have been reported. (MB 580-377733/5)

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-377826 recovered above the upper control limit for trans-1,2-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 20220105-D3-ZT01 (580-109011-1) and (CCVIS 580-377826/3).

Method 8260D: Surrogate recovery for the following sample was outside control limits for Toluene-d8 : 20220105-D3-ZT01 (580-109011-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA

Method 8270E: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-377665 was outside criteria for the following analytes: Bis(2-chloroethyl)ether and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analytes is considered estimated.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-377587 and analytical batch 580-377665 recovered outside control limits for several analytes. Individual recoveries of both the LCS and LCSD met the acceptance criteria.

Method 8270E: The following analyte have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Hexachlorocyclopentadiene. These analytes may have a %D <60%.

Method 8270E: Surrogate recovery for the following sample was outside control limits: 20220105-D3-ZT01 (580-109011-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

Organic Prep

Methods 3510C, CWA_Prep: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-377587, so a laboratory control sample/laboratory control sample duplicate were created and substituted for the MS/MSD/DUP.

Method 3510C: The following sample: 20220105-F1-ZT02 (580-109011-2) was decanted prior to preparation, per client's request. The client-provided 500 mLs of sample which was decanted to 250 mL, then surrogated in the bottle. The bottle was also rinsed with solvent as per the standard operating procedure (SOP). The sample was otherwise processed normally according to the SOP.

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

VOA Prep

Case Narrative

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Job ID: 580-109011-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

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

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Definitions/Glossary

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
Q	One or more quality control criteria failed.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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.
Q	One or more quality control criteria failed.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Client Sample ID: 20220105-D3-ZT01

Lab Sample ID: 580-109011-1

Date Collected: 01/05/22 13:21

Matrix: Water

Date Received: 01/06/22 10:50

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	31	U	100	31	ug/L			01/08/22 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		69 - 133					01/08/22 16:08	1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.2	U	15	3.2	ug/L			01/08/22 16:08	1
Benzene	0.24	U	1.0	0.24	ug/L			01/08/22 16:08	1
Bromodichloromethane	0.29	U	1.0	0.29	ug/L			01/08/22 16:08	1
Bromoform	0.51	U	1.0	0.51	ug/L			01/08/22 16:08	1
Bromomethane	0.21	U	1.0	0.21	ug/L			01/08/22 16:08	1
Carbon disulfide	0.53	U	1.0	0.53	ug/L			01/08/22 16:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/08/22 16:08	1
Chlorobenzene	0.44	U	1.0	0.44	ug/L			01/08/22 16:08	1
Chloroform	0.26	U	1.0	0.26	ug/L			01/08/22 16:08	1
Chloromethane	0.28	U	1.0	0.28	ug/L			01/08/22 16:08	1
cis-1,2-Dichloroethene	0.35	U	1.0	0.35	ug/L			01/08/22 16:08	1
cis-1,3-Dichloropropene	0.20	U	1.0	0.20	ug/L			01/08/22 16:08	1
Dibromochloromethane	0.43	U	1.0	0.43	ug/L			01/08/22 16:08	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			01/08/22 16:08	1
1,2-Dichloroethane	0.42	U	1.0	0.42	ug/L			01/08/22 16:08	1
1,1-Dichloroethene	0.28	U	1.0	0.28	ug/L			01/08/22 16:08	1
1,2-Dichloroethene, Total	0.39	U	1.0	0.39	ug/L			01/08/22 16:08	1
Dichloromethane	1.4	U	3.0	1.4	ug/L			01/08/22 16:08	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			01/08/22 16:08	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			01/08/22 16:08	1
Ethyl Chloride	0.35	U	1.0	0.35	ug/L			01/08/22 16:08	1
2-Hexanone	4.0	U	15	4.0	ug/L			01/08/22 16:08	1
Methyl Ethyl Ketone	4.7	U	15	4.7	ug/L			01/08/22 16:08	1
Methyl isobutyl ketone (MIBK)	2.5	U	5.0	2.5	ug/L			01/08/22 16:08	1
m-Xylene & p-Xylene	0.53	U	2.0	0.53	ug/L			01/08/22 16:08	1
o-Xylene	0.39	U	1.0	0.39	ug/L			01/08/22 16:08	1
Styrene	0.53	U	1.0	0.53	ug/L			01/08/22 16:08	1
1,1,2,2-Tetrachloroethane	0.52	U	1.0	0.52	ug/L			01/08/22 16:08	1
Tetrachloroethene	0.41	U	1.0	0.41	ug/L			01/08/22 16:08	1
Toluene	0.39	U	1.0	0.39	ug/L			01/08/22 16:08	1
trans-1,2-Dichloroethene	0.39	U	1.0	0.39	ug/L			01/08/22 16:08	1
trans-1,3-Dichloropropene	0.41	U	1.0	0.41	ug/L			01/08/22 16:08	1
1,1,1-Trichloroethane	0.39	U	1.0	0.39	ug/L			01/08/22 16:08	1
1,1,2-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/08/22 16:08	1
Trichloroethene	0.26	U	1.0	0.26	ug/L			01/08/22 16:08	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			01/08/22 16:08	1
Xylenes, Total	0.53	U	2.0	0.53	ug/L			01/08/22 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		85 - 114					01/08/22 16:08	1
Dibromofluoromethane (Surr)	103		80 - 119					01/08/22 16:08	1
1,2-Dichloroethane-d4 (Surr)	96		81 - 118					01/08/22 16:08	1
Toluene-d8 (Surr)	6	S1-	89 - 112					01/08/22 16:08	1

Eurofins Seattle

Client Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Client Sample ID: 20220105-D3-ZT01

Lab Sample ID: 580-109011-1

Date Collected: 01/05/22 13:21

Matrix: Water

Date Received: 01/06/22 10:50

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.054	U	0.43	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Acenaphthylene	0.065	U	1.1	0.065	ug/L		01/06/22 17:37	01/07/22 02:11	1
Anthracene	0.054	U	1.1	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Benzo[a]anthracene	0.054	U *1	0.27	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Benzo[a]pyrene	0.043	U	0.27	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
Benzo[b]fluoranthene	0.043	U	0.27	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
Benzo[g,h,i]perylene	0.043	U	0.27	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
Benzo[k]fluoranthene	0.054	U *1	0.27	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Bis(2-chloroethoxy)methane	0.054	U	0.65	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Bis(2-chloroethyl)ether	0.032	U	0.11	0.032	ug/L		01/06/22 17:37	01/07/22 02:11	1
Bis(2-ethylhexyl) phthalate	0.80	U *1	3.2	0.80	ug/L		01/06/22 17:37	01/07/22 02:11	1
4-Bromophenyl phenyl ether	0.065	U	0.65	0.065	ug/L		01/06/22 17:37	01/07/22 02:11	1
Butyl benzyl phthalate	0.29	U *1	4.3	0.29	ug/L		01/06/22 17:37	01/07/22 02:11	1
Carbazole	0.11	U	0.65	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
4-Chloroaniline	0.64	U	2.2	0.64	ug/L		01/06/22 17:37	01/07/22 02:11	1
4-Chloro-3-methylphenol	0.14	U	0.65	0.14	ug/L		01/06/22 17:37	01/07/22 02:11	1
2-Chloronaphthalene	0.075	U	1.1	0.075	ug/L		01/06/22 17:37	01/07/22 02:11	1
2-Chlorophenol	0.054	U	1.1	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
4-Chlorophenyl phenyl ether	0.054	U	0.65	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Chrysene	0.043	U *1	0.27	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
Dibenz(a,h)anthracene	0.075	U	0.27	0.075	ug/L		01/06/22 17:37	01/07/22 02:11	1
Dibenzofuran	0.11	U	0.43	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
1,2-Dichlorobenzene	0.054	U	0.43	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
1,3-Dichlorobenzene	0.043	U	0.43	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
1,4-Dichlorobenzene	0.043	U	0.43	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
3,3'-Dichlorobenzidine	0.28	U *1	1.1	0.28	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,4-Dichlorophenol	0.22	U *1	1.1	0.22	ug/L		01/06/22 17:37	01/07/22 02:11	1
Diethyl phthalate	0.16	U	1.1	0.16	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,4-Dimethylphenol	0.17	U	4.3	0.17	ug/L		01/06/22 17:37	01/07/22 02:11	1
Dimethyl phthalate	0.065	U	0.65	0.065	ug/L		01/06/22 17:37	01/07/22 02:11	1
Di-n-butyl phthalate	0.20	U	3.2	0.20	ug/L		01/06/22 17:37	01/07/22 02:11	1
4,6-Dinitro-2-methylphenol	0.59	U	2.2	0.59	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,4-Dinitrophenol	1.7	U	5.4	1.7	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,4-Dinitrotoluene	0.11	U	1.1	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,6-Dinitrotoluene	0.11	U	0.43	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
Di-n-octyl phthalate	0.14	U	1.1	0.14	ug/L		01/06/22 17:37	01/07/22 02:11	1
Fluoranthene	0.065	U	0.27	0.065	ug/L		01/06/22 17:37	01/07/22 02:11	1
Fluorene	0.054	U	0.27	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Hexachlorobenzene	0.043	U	0.65	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
Hexachlorobutadiene	0.065	U	1.1	0.065	ug/L		01/06/22 17:37	01/07/22 02:11	1
Hexachlorocyclopentadiene	0.15	U Q	1.1	0.15	ug/L		01/06/22 17:37	01/07/22 02:11	1
Hexachloroethane	0.054	U	1.1	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
Indeno[1,2,3-cd]pyrene	0.14	U *1	0.43	0.14	ug/L		01/06/22 17:37	01/07/22 02:11	1
Isophorone	0.11	U	0.43	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
2-Methylphenol	0.054	U	0.65	0.054	ug/L		01/06/22 17:37	01/07/22 02:11	1
3 & 4 Methylphenol	0.11	U	0.65	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
Naphthalene	0.17	U	0.43	0.17	ug/L		01/06/22 17:37	01/07/22 02:11	1
2-Nitroaniline	0.11	U	1.1	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
3-Nitroaniline	0.17	U	3.2	0.17	ug/L		01/06/22 17:37	01/07/22 02:11	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Client Sample ID: 20220105-D3-ZT01

Lab Sample ID: 580-109011-1

Date Collected: 01/05/22 13:21

Matrix: Water

Date Received: 01/06/22 10:50

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	0.23	U	2.2	0.23	ug/L		01/06/22 17:37	01/07/22 02:11	1
Nitrobenzene	0.043	U	1.1	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
4-Nitrophenol	1.8	U	11	1.8	ug/L		01/06/22 17:37	01/07/22 02:11	1
N-Nitrosodi-n-propylamine	0.065	U *1	0.43	0.065	ug/L		01/06/22 17:37	01/07/22 02:11	1
N-Nitrosodiphenylamine	0.075	U	1.1	0.075	ug/L		01/06/22 17:37	01/07/22 02:11	1
Pentachlorophenol	0.55	U	11	0.55	ug/L		01/06/22 17:37	01/07/22 02:11	1
Phenanthrene	0.13	U	1.1	0.13	ug/L		01/06/22 17:37	01/07/22 02:11	1
Phenol	0.39	U	1.1	0.39	ug/L		01/06/22 17:37	01/07/22 02:11	1
Pyrene	0.043	U	1.1	0.043	ug/L		01/06/22 17:37	01/07/22 02:11	1
1,2,4-Trichlorobenzene	0.097	U	0.43	0.097	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,4,5-Trichlorophenol	0.11	U	0.43	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1
2,4,6-Trichlorophenol	0.11	U	0.65	0.11	ug/L		01/06/22 17:37	01/07/22 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		44 - 119	01/06/22 17:37	01/07/22 02:11	1
2-Fluorophenol (Surr)	1	S1-	19 - 119	01/06/22 17:37	01/07/22 02:11	1
Nitrobenzene-d5 (Surr)	82		44 - 120	01/06/22 17:37	01/07/22 02:11	1
Phenol-d5 (Surr)	0.5	S1-	10 - 120	01/06/22 17:37	01/07/22 02:11	1
Terphenyl-d14	107		50 - 134	01/06/22 17:37	01/07/22 02:11	1
2,4,6-Tribromophenol	151	S1+	43 - 140	01/06/22 17:37	01/07/22 02:11	1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C25	90	U	110	90	ug/L		01/06/22 17:38	01/07/22 01:09	1
C24-C40	180	U	350	180	ug/L		01/06/22 17:38	01/07/22 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		56 - 125	01/06/22 17:38	01/07/22 01:09	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Client Sample ID: 20220105-F1-ZT02

Lab Sample ID: 580-109011-2

Date Collected: 01/05/22 14:30

Matrix: Water

Date Received: 01/06/22 10:50

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	31	U	100	31	ug/L			01/06/22 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	Q	69 - 133					01/06/22 16:44	1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C25	96	U	120	96	ug/L		01/06/22 17:38	01/07/22 01:29	1
C24-C40	190	U	370	190	ug/L		01/06/22 17:38	01/07/22 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		56 - 125				01/06/22 17:38	01/07/22 01:29	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-377733/5
Matrix: Water
Analysis Batch: 377733

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	31	U	100	31	ug/L			01/06/22 12:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130	*3	69 - 133					01/06/22 12:54	1

Lab Sample ID: LCS 580-377733/8
Matrix: Water
Analysis Batch: 377733

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (C6-C12)	1000	995		ug/L		99	78 - 122	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	101		69 - 133					

Lab Sample ID: LCSD 580-377733/9
Matrix: Water
Analysis Batch: 377733

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (C6-C12)	1000	1070		ug/L		107	78 - 122	8	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	118		69 - 133						

Lab Sample ID: MB 580-377829/4
Matrix: Water
Analysis Batch: 377829

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C12)	31	U	100	31	ug/L			01/08/22 14:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		69 - 133					01/08/22 14:09	1

Lab Sample ID: LCS 580-377829/5
Matrix: Water
Analysis Batch: 377829

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (C6-C12)	1000	942		ug/L		94	78 - 122	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	98		69 - 133					

QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-377829/6

Matrix: Water

Analysis Batch: 377829

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
Gasoline Range Organics (C6-C12)	1000	942		ug/L		94	78 - 122	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		69 - 133

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-377826/4

Matrix: Water

Analysis Batch: 377826

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.2	U	15	3.2	ug/L			01/08/22 14:09	1
Benzene	0.24	U	1.0	0.24	ug/L			01/08/22 14:09	1
Bromodichloromethane	0.29	U	1.0	0.29	ug/L			01/08/22 14:09	1
Bromoform	0.51	U	1.0	0.51	ug/L			01/08/22 14:09	1
Bromomethane	0.21	U	1.0	0.21	ug/L			01/08/22 14:09	1
Carbon disulfide	0.53	U	1.0	0.53	ug/L			01/08/22 14:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/08/22 14:09	1
Chlorobenzene	0.44	U	1.0	0.44	ug/L			01/08/22 14:09	1
Chloroform	0.26	U	1.0	0.26	ug/L			01/08/22 14:09	1
Chloromethane	0.28	U	1.0	0.28	ug/L			01/08/22 14:09	1
cis-1,2-Dichloroethene	0.35	U	1.0	0.35	ug/L			01/08/22 14:09	1
cis-1,3-Dichloropropene	0.20	U	1.0	0.20	ug/L			01/08/22 14:09	1
Dibromochloromethane	0.43	U	1.0	0.43	ug/L			01/08/22 14:09	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			01/08/22 14:09	1
1,2-Dichloroethane	0.42	U	1.0	0.42	ug/L			01/08/22 14:09	1
1,1-Dichloroethene	0.28	U	1.0	0.28	ug/L			01/08/22 14:09	1
1,2-Dichloroethene, Total	0.39	U	1.0	0.39	ug/L			01/08/22 14:09	1
Dichloromethane	1.4	U	3.0	1.4	ug/L			01/08/22 14:09	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			01/08/22 14:09	1
Ethylbenzene	0.50	U	1.0	0.50	ug/L			01/08/22 14:09	1
Ethyl Chloride	0.35	U	1.0	0.35	ug/L			01/08/22 14:09	1
2-Hexanone	4.0	U	15	4.0	ug/L			01/08/22 14:09	1
Methyl Ethyl Ketone	4.7	U	15	4.7	ug/L			01/08/22 14:09	1
Methyl isobutyl ketone (MIBK)	2.5	U	5.0	2.5	ug/L			01/08/22 14:09	1
m-Xylene & p-Xylene	0.53	U	2.0	0.53	ug/L			01/08/22 14:09	1
o-Xylene	0.39	U	1.0	0.39	ug/L			01/08/22 14:09	1
Styrene	0.53	U	1.0	0.53	ug/L			01/08/22 14:09	1
1,1,2,2-Tetrachloroethane	0.52	U	1.0	0.52	ug/L			01/08/22 14:09	1
Tetrachloroethene	0.41	U	1.0	0.41	ug/L			01/08/22 14:09	1
Toluene	0.39	U	1.0	0.39	ug/L			01/08/22 14:09	1
trans-1,2-Dichloroethene	0.39	U	1.0	0.39	ug/L			01/08/22 14:09	1
trans-1,3-Dichloropropene	0.41	U	1.0	0.41	ug/L			01/08/22 14:09	1
1,1,1-Trichloroethane	0.39	U	1.0	0.39	ug/L			01/08/22 14:09	1
1,1,2-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/08/22 14:09	1
Trichloroethene	0.26	U	1.0	0.26	ug/L			01/08/22 14:09	1
Vinyl chloride	0.22	U	1.0	0.22	ug/L			01/08/22 14:09	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-377826/4

Matrix: Water

Analysis Batch: 377826

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.53	U	2.0	0.53	ug/L			01/08/22 14:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		85 - 114		01/08/22 14:09	1
Dibromofluoromethane (Surr)	105		80 - 119		01/08/22 14:09	1
1,2-Dichloroethane-d4 (Surr)	94		81 - 118		01/08/22 14:09	1
Toluene-d8 (Surr)	106		89 - 112		01/08/22 14:09	1

Lab Sample ID: LCS 580-377826/5

Matrix: Water

Analysis Batch: 377826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	47.1		ug/L		94	39 - 160
Benzene	10.0	11.8		ug/L		118	79 - 120
Bromodichloromethane	10.0	10.2		ug/L		102	79 - 125
Bromoform	10.0	9.60		ug/L		96	66 - 130
Bromomethane	10.0	12.3		ug/L		123	53 - 141
Carbon disulfide	10.0	10.7		ug/L		107	64 - 133
Carbon tetrachloride	10.0	11.0		ug/L		110	72 - 136
Chlorobenzene	10.0	11.6		ug/L		116	82 - 118
Chloroform	10.0	11.6		ug/L		116	79 - 124
Chloromethane	10.0	11.8		ug/L		118	50 - 139
cis-1,2-Dichloroethene	10.0	11.8		ug/L		118	78 - 123
cis-1,3-Dichloropropene	10.0	9.86		ug/L		99	75 - 124
Dibromochloromethane	10.0	9.85		ug/L		98	74 - 126
1,1-Dichloroethane	10.0	11.4		ug/L		114	77 - 125
1,2-Dichloroethane	10.0	11.0		ug/L		110	73 - 128
1,1-Dichloroethene	10.0	11.9		ug/L		119	71 - 131
1,2-Dichloroethene, Total	20.0	24.0		ug/L		120	78 - 123
Dichloromethane	10.0	11.6		ug/L		116	74 - 124
1,2-Dichloropropane	10.0	11.2		ug/L		112	78 - 122
Ethylbenzene	10.0	11.1		ug/L		111	79 - 121
Ethyl Chloride	10.0	12.2		ug/L		122	60 - 138
2-Hexanone	50.0	44.3		ug/L		89	57 - 139
Methyl Ethyl Ketone	50.0	53.2		ug/L		106	56 - 143
Methyl isobutyl ketone (MIBK)	50.0	46.5		ug/L		93	67 - 130
m-Xylene & p-Xylene	10.0	10.9		ug/L		109	80 - 121
o-Xylene	10.0	10.5		ug/L		105	78 - 122
Styrene	10.0	10.6		ug/L		106	78 - 123
1,1,2,2-Tetrachloroethane	10.0	8.82		ug/L		88	71 - 121
Tetrachloroethene	10.0	11.8		ug/L		118	74 - 129
Toluene	10.0	11.7		ug/L		117	80 - 121
trans-1,2-Dichloroethene	10.0	12.2		ug/L		122	75 - 124
trans-1,3-Dichloropropene	10.0	9.54		ug/L		95	73 - 127
1,1,1-Trichloroethane	10.0	9.33		ug/L		93	74 - 131
1,1,2-Trichloroethane	10.0	10.9		ug/L		109	80 - 119
Trichloroethene	10.0	11.7		ug/L		117	79 - 123

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-377826/5

Matrix: Water

Analysis Batch: 377826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	11.1		ug/L		111	58 - 137
Xylenes, Total	20.0	21.4		ug/L		107	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	107		80 - 119
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
Toluene-d8 (Surr)	106		89 - 112

Lab Sample ID: LCSD 580-377826/6

Matrix: Water

Analysis Batch: 377826

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
Acetone	50.0	51.9		ug/L		104	39 - 160	10	20
Benzene	10.0	11.8		ug/L		118	79 - 120	1	20
Bromodichloromethane	10.0	10.5		ug/L		105	79 - 125	3	20
Bromoform	10.0	9.84		ug/L		98	66 - 130	2	20
Bromomethane	10.0	10.8		ug/L		108	53 - 141	14	20
Carbon disulfide	10.0	10.2		ug/L		102	64 - 133	4	20
Carbon tetrachloride	10.0	11.1		ug/L		111	72 - 136	1	20
Chlorobenzene	10.0	11.7		ug/L		117	82 - 118	1	20
Chloroform	10.0	11.5		ug/L		115	79 - 124	1	20
Chloromethane	10.0	10.9		ug/L		109	50 - 139	8	20
cis-1,2-Dichloroethene	10.0	12.2		ug/L		122	78 - 123	3	20
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	75 - 124	2	20
Dibromochloromethane	10.0	10.2		ug/L		102	74 - 126	3	20
1,1-Dichloroethane	10.0	11.8		ug/L		118	77 - 125	3	20
1,2-Dichloroethane	10.0	11.5		ug/L		115	73 - 128	4	20
1,1-Dichloroethene	10.0	12.4		ug/L		124	71 - 131	4	20
1,2-Dichloroethene, Total	20.0	24.4		ug/L		122	78 - 123	2	20
Dichloromethane	10.0	9.49		ug/L		95	74 - 124	20	20
1,2-Dichloropropane	10.0	11.4		ug/L		114	78 - 122	2	20
Ethylbenzene	10.0	11.3		ug/L		113	79 - 121	2	20
Ethyl Chloride	10.0	11.3		ug/L		113	60 - 138	8	20
2-Hexanone	50.0	46.6		ug/L		93	57 - 139	5	20
Methyl Ethyl Ketone	50.0	53.4		ug/L		107	56 - 143	0	20
Methyl isobutyl ketone (MIBK)	50.0	50.0		ug/L		100	67 - 130	7	20
m-Xylene & p-Xylene	10.0	11.1		ug/L		111	80 - 121	2	20
o-Xylene	10.0	10.8		ug/L		108	78 - 122	2	20
Styrene	10.0	10.6		ug/L		106	78 - 123	1	20
1,1,1,2-Tetrachloroethane	10.0	9.11		ug/L		91	71 - 121	3	20
Tetrachloroethene	10.0	11.7		ug/L		117	74 - 129	1	20
Toluene	10.0	12.0		ug/L		120	80 - 121	2	20
trans-1,2-Dichloroethene	10.0	12.2		ug/L		122	75 - 124	0	20
trans-1,3-Dichloropropene	10.0	10.0		ug/L		100	73 - 127	5	20
1,1,1-Trichloroethane	10.0	8.85		ug/L		89	74 - 131	5	20
1,1,2-Trichloroethane	10.0	11.4		ug/L		114	80 - 119	4	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-377826/6

Matrix: Water

Analysis Batch: 377826

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Trichloroethene	10.0	11.9		ug/L		119	79 - 123	1	20	
Vinyl chloride	10.0	10.4		ug/L		104	58 - 137	7	20	
Xylenes, Total	20.0	21.9		ug/L		110	79 - 121	2	20	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	107		80 - 119
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
Toluene-d8 (Surr)	108		89 - 112

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-377587/1-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 377587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Acenaphthylene	0.060	U	1.0	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Anthracene	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Benzo[a]anthracene	0.050	U	0.25	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Benzo[a]pyrene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Benzo[b]fluoranthene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Benzo[g,h,i]perylene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Benzo[k]fluoranthene	0.050	U	0.25	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Bis(2-chloroethoxy)methane	0.050	U	0.60	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Bis(2-chloroethyl)ether	0.030	U	0.10	0.030	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Bis(2-ethylhexyl) phthalate	0.74	U	3.0	0.74	ug/L		01/06/22 10:50	01/06/22 21:57	1	
4-Bromophenyl phenyl ether	0.060	U	0.60	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Butyl benzyl phthalate	0.27	U	4.0	0.27	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Carbazole	0.10	U	0.60	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1	
4-Chloroaniline	0.59	U	2.0	0.59	ug/L		01/06/22 10:50	01/06/22 21:57	1	
4-Chloro-3-methylphenol	0.13	U	0.60	0.13	ug/L		01/06/22 10:50	01/06/22 21:57	1	
2-Chloronaphthalene	0.070	U	1.0	0.070	ug/L		01/06/22 10:50	01/06/22 21:57	1	
2-Chlorophenol	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
4-Chlorophenyl phenyl ether	0.050	U	0.60	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Chrysene	0.040	U	0.25	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Dibenz(a,h)anthracene	0.070	U	0.25	0.070	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Dibenzofuran	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1	
1,2-Dichlorobenzene	0.050	U	0.40	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1	
1,3-Dichlorobenzene	0.040	U	0.40	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1	
1,4-Dichlorobenzene	0.040	U	0.40	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1	
3,3'-Dichlorobenzidine	0.26	U	1.0	0.26	ug/L		01/06/22 10:50	01/06/22 21:57	1	
2,4-Dichlorophenol	0.20	U	1.0	0.20	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Diethyl phthalate	0.15	U	1.0	0.15	ug/L		01/06/22 10:50	01/06/22 21:57	1	
2,4-Dimethylphenol	0.16	U	4.0	0.16	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Dimethyl phthalate	0.060	U	0.60	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1	
Di-n-butyl phthalate	0.19	U	3.0	0.19	ug/L		01/06/22 10:50	01/06/22 21:57	1	
4,6-Dinitro-2-methylphenol	0.55	U	2.0	0.55	ug/L		01/06/22 10:50	01/06/22 21:57	1	

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-377587/1-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 377587

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dinitrophenol	1.6	U	5.0	1.6	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4-Dinitrotoluene	0.10	U	1.0	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,6-Dinitrotoluene	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
Di-n-octyl phthalate	0.13	U	1.0	0.13	ug/L		01/06/22 10:50	01/06/22 21:57	1
Fluoranthene	0.060	U	0.25	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
Fluorene	0.050	U	0.25	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachlorobenzene	0.040	U	0.60	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachlorobutadiene	0.060	U	1.0	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachlorocyclopentadiene	0.14	U	1.0	0.14	ug/L		01/06/22 10:50	01/06/22 21:57	1
Hexachloroethane	0.050	U	1.0	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
Indeno[1,2,3-cd]pyrene	0.13	U	0.40	0.13	ug/L		01/06/22 10:50	01/06/22 21:57	1
Isophorone	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Methylphenol	0.050	U	0.60	0.050	ug/L		01/06/22 10:50	01/06/22 21:57	1
3 & 4 Methylphenol	0.10	U	0.60	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
Naphthalene	0.16	U	0.40	0.16	ug/L		01/06/22 10:50	01/06/22 21:57	1
2-Nitroaniline	0.10	U	1.0	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
3-Nitroaniline	0.16	U	3.0	0.16	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Nitroaniline	0.21	U	2.0	0.21	ug/L		01/06/22 10:50	01/06/22 21:57	1
Nitrobenzene	0.040	U	1.0	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
4-Nitrophenol	1.7	U	10	1.7	ug/L		01/06/22 10:50	01/06/22 21:57	1
N-Nitrosodi-n-propylamine	0.060	U	0.40	0.060	ug/L		01/06/22 10:50	01/06/22 21:57	1
N-Nitrosodiphenylamine	0.070	U	1.0	0.070	ug/L		01/06/22 10:50	01/06/22 21:57	1
Pentachlorophenol	0.51	U	10	0.51	ug/L		01/06/22 10:50	01/06/22 21:57	1
Phenanthrene	0.12	U	1.0	0.12	ug/L		01/06/22 10:50	01/06/22 21:57	1
Phenol	0.36	U	1.0	0.36	ug/L		01/06/22 10:50	01/06/22 21:57	1
Pyrene	0.040	U	1.0	0.040	ug/L		01/06/22 10:50	01/06/22 21:57	1
1,2,4-Trichlorobenzene	0.090	U	0.40	0.090	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4,5-Trichlorophenol	0.10	U	0.40	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1
2,4,6-Trichlorophenol	0.10	U	0.60	0.10	ug/L		01/06/22 10:50	01/06/22 21:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	60		44 - 119	01/06/22 10:50	01/06/22 21:57	1
2-Fluorophenol (Surr)	40		19 - 119	01/06/22 10:50	01/06/22 21:57	1
Nitrobenzene-d5 (Surr)	62		44 - 120	01/06/22 10:50	01/06/22 21:57	1
Phenol-d5 (Surr)	23		10 - 120	01/06/22 10:50	01/06/22 21:57	1
Terphenyl-d14	95		50 - 134	01/06/22 10:50	01/06/22 21:57	1
2,4,6-Tribromophenol	66		43 - 140	01/06/22 10:50	01/06/22 21:57	1

Lab Sample ID: LCS 580-377587/2-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Acenaphthene	2.00	1.35		ug/L		67	47 - 122
Acenaphthylene	2.00	1.32		ug/L		66	41 - 130
Anthracene	2.00	1.50		ug/L		75	57 - 123
Benzo[a]anthracene	2.00	1.40		ug/L		70	58 - 125
Benzo[a]pyrene	2.00	1.43		ug/L		71	54 - 128

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-377587/2-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Benzo[b]fluoranthene	2.00	1.45		ug/L		72	53 - 131
Benzo[g,h,i]perylene	2.00	1.40		ug/L		70	50 - 134
Benzo[k]fluoranthene	2.00	1.35		ug/L		68	57 - 129
Bis(2-chloroethoxy)methane	2.00	1.41		ug/L		71	48 - 120
Bis(2-ethylhexyl) phthalate	2.00	1.68	J	ug/L		84	55 - 135
4-Bromophenyl phenyl ether	2.00	1.39		ug/L		69	55 - 124
Butyl benzyl phthalate	2.00	1.65	J	ug/L		82	53 - 134
Carbazole	2.00	1.62		ug/L		81	60 - 122
4-Chloroaniline	2.00	1.17	J	ug/L		58	33 - 117
4-Chloro-3-methylphenol	2.00	1.25		ug/L		62	52 - 119
2-Chloronaphthalene	2.00	1.31		ug/L		66	40 - 116
2-Chlorophenol	2.00	1.25		ug/L		63	38 - 117
4-Chlorophenyl phenyl ether	2.00	1.43		ug/L		72	53 - 121
Chrysene	2.00	1.58		ug/L		79	59 - 123
Dibenz(a,h)anthracene	2.00	1.35		ug/L		67	51 - 134
Dibenzofuran	2.00	1.44		ug/L		72	53 - 118
1,2-Dichlorobenzene	2.00	1.11		ug/L		56	32 - 111
1,3-Dichlorobenzene	2.00	1.05		ug/L		52	28 - 110
1,4-Dichlorobenzene	2.00	1.07		ug/L		53	29 - 112
3,3'-Dichlorobenzidine	4.00	2.81		ug/L		70	27 - 129
2,4-Dichlorophenol	2.00	1.14		ug/L		57	47 - 121
Diethyl phthalate	2.00	1.80		ug/L		90	56 - 125
2,4-Dimethylphenol	2.00	1.40	J	ug/L		70	31 - 124
Dimethyl phthalate	2.00	1.70		ug/L		85	45 - 127
Di-n-butyl phthalate	2.00	1.71	J	ug/L		85	59 - 127
4,6-Dinitro-2-methylphenol	4.00	2.37		ug/L		59	44 - 137
2,4-Dinitrophenol	4.00	2.61	J	ug/L		65	23 - 143
2,4-Dinitrotoluene	2.00	1.48		ug/L		74	57 - 128
2,6-Dinitrotoluene	2.00	1.42		ug/L		71	57 - 124
Di-n-octyl phthalate	2.00	1.61		ug/L		81	51 - 140
Fluoranthene	2.00	1.62		ug/L		81	57 - 128
Fluorene	2.00	1.50		ug/L		75	52 - 124
Hexachlorobenzene	2.00	1.29		ug/L		64	53 - 125
Hexachlorobutadiene	2.00	1.03		ug/L		51	22 - 124
Hexachlorocyclopentadiene	2.00	0.445	J	ug/L		22	20 - 125
Hexachloroethane	2.00	1.05		ug/L		53	21 - 115
Indeno[1,2,3-cd]pyrene	2.00	1.16		ug/L		58	52 - 134
Isophorone	2.00	1.42		ug/L		71	42 - 124
2-Methylphenol	2.00	1.19		ug/L		59	30 - 117
3 & 4 Methylphenol	2.00	1.13		ug/L		56	29 - 110
Naphthalene	2.00	1.14		ug/L		57	40 - 121
2-Nitroaniline	2.00	1.38		ug/L		69	55 - 127
3-Nitroaniline	2.00	1.37	J	ug/L		69	41 - 128
4-Nitroaniline	2.00	1.50	J	ug/L		75	70 - 125
Nitrobenzene	2.00	1.44		ug/L		72	45 - 121
4-Nitrophenol	4.00	1.85	J	ug/L		46	35 - 145
N-Nitrosodi-n-propylamine	2.00	1.46		ug/L		73	49 - 119
N-Nitrosodiphenylamine	2.00	1.43		ug/L		71	51 - 123
Pentachlorophenol	4.00	2.01	J	ug/L		50	35 - 138

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-377587/2-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Phenanthrene	2.00	1.41		ug/L		71	59 - 120
Phenol	2.00	0.602	J	ug/L		30	13 - 120
Pyrene	2.00	1.63		ug/L		82	57 - 126
1,2,4-Trichlorobenzene	2.00	1.12		ug/L		56	29 - 116
2,4,5-Trichlorophenol	2.00	1.51		ug/L		75	53 - 123
2,4,6-Trichlorophenol	2.00	1.24		ug/L		62	50 - 125

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	63		44 - 119
2-Fluorophenol (Surr)	43		19 - 119
Nitrobenzene-d5 (Surr)	70		44 - 120
Phenol-d5 (Surr)	27		10 - 120
Terphenyl-d14	88		50 - 134
2,4,6-Tribromophenol	77		43 - 140

Lab Sample ID: LCSD 580-377587/3-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Acenaphthene	2.00	1.52		ug/L		76	47 - 122	12	20
Acenaphthylene	2.00	1.56		ug/L		78	41 - 130	17	20
Anthracene	2.00	1.51		ug/L		75	57 - 123	0	20
Benzo[a]anthracene	2.00	1.76	*1	ug/L		88	58 - 125	23	20
Benzo[a]pyrene	2.00	1.74		ug/L		87	54 - 128	20	20
Benzo[b]fluoranthene	2.00	1.57		ug/L		78	53 - 131	8	20
Benzo[g,h,i]perylene	2.00	1.66		ug/L		83	50 - 134	17	20
Benzo[k]fluoranthene	2.00	1.91	*1	ug/L		96	57 - 129	34	20
Bis(2-chloroethoxy)methane	2.00	1.65		ug/L		83	48 - 120	16	20
Bis(2-ethylhexyl) phthalate	2.00	2.13	J *1	ug/L		106	55 - 135	23	20
4-Bromophenyl phenyl ether	2.00	1.50		ug/L		75	55 - 124	8	20
Butyl benzyl phthalate	2.00	2.06	J *1	ug/L		103	53 - 134	22	20
Carbazole	2.00	1.81		ug/L		90	60 - 122	11	20
4-Chloroaniline	2.00	1.09	J	ug/L		54	33 - 117	7	20
4-Chloro-3-methylphenol	2.00	1.50		ug/L		75	52 - 119	19	20
2-Chloronaphthalene	2.00	1.47		ug/L		73	40 - 116	11	20
2-Chlorophenol	2.00	1.47		ug/L		74	38 - 117	16	20
4-Chlorophenyl phenyl ether	2.00	1.65		ug/L		82	53 - 121	14	20
Chrysene	2.00	2.01	*1	ug/L		101	59 - 123	24	20
Dibenz(a,h)anthracene	2.00	1.61		ug/L		80	51 - 134	18	20
Dibenzofuran	2.00	1.64		ug/L		82	53 - 118	13	20
1,2-Dichlorobenzene	2.00	1.19		ug/L		59	32 - 111	7	20
1,3-Dichlorobenzene	2.00	1.11		ug/L		56	28 - 110	6	20
1,4-Dichlorobenzene	2.00	1.11		ug/L		56	29 - 112	4	20
3,3'-Dichlorobenzidine	4.00	3.47	*1	ug/L		87	27 - 129	21	20
2,4-Dichlorophenol	2.00	1.42	*1	ug/L		71	47 - 121	22	20
Diethyl phthalate	2.00	1.98		ug/L		99	56 - 125	10	20
2,4-Dimethylphenol	2.00	1.68	J	ug/L		84	31 - 124	18	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-377587/3-A

Matrix: Water

Analysis Batch: 377665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 377587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Dimethyl phthalate	2.00	1.80		ug/L		90	45 - 127	6	20	
Di-n-butyl phthalate	2.00	1.89	J	ug/L		94	59 - 127	10	20	
4,6-Dinitro-2-methylphenol	4.00	2.74		ug/L		68	44 - 137	14	20	
2,4-Dinitrophenol	4.00	3.21	J	ug/L		80	23 - 143	20	20	
2,4-Dinitrotoluene	2.00	1.69		ug/L		84	57 - 128	13	20	
2,6-Dinitrotoluene	2.00	1.65		ug/L		82	57 - 124	15	20	
Di-n-octyl phthalate	2.00	1.97		ug/L		99	51 - 140	20	20	
Fluoranthene	2.00	1.75		ug/L		87	57 - 128	8	20	
Fluorene	2.00	1.66		ug/L		83	52 - 124	10	20	
Hexachlorobenzene	2.00	1.46		ug/L		73	53 - 125	13	20	
Hexachlorobutadiene	2.00	1.00		ug/L		50	22 - 124	2	20	
Hexachlorocyclopentadiene	2.00	0.460	J	ug/L		23	20 - 125	3	20	
Hexachloroethane	2.00	1.13		ug/L		56	21 - 115	7	20	
Indeno[1,2,3-cd]pyrene	2.00	1.46	*1	ug/L		73	52 - 134	23	20	
Isophorone	2.00	1.60		ug/L		80	42 - 124	12	20	
2-Methylphenol	2.00	1.45		ug/L		73	30 - 117	20	20	
3 & 4 Methylphenol	2.00	1.30		ug/L		65	29 - 110	14	20	
Naphthalene	2.00	1.33		ug/L		66	40 - 121	15	20	
2-Nitroaniline	2.00	1.56		ug/L		78	55 - 127	12	20	
3-Nitroaniline	2.00	1.44	J	ug/L		72	41 - 128	5	20	
4-Nitroaniline	2.00	1.84	J	ug/L		92	70 - 125	20	20	
Nitrobenzene	2.00	1.62		ug/L		81	45 - 121	12	20	
4-Nitrophenol	4.00	1.95	J	ug/L		49	35 - 145	5	20	
N-Nitrosodi-n-propylamine	2.00	1.80	*1	ug/L		90	49 - 119	21	20	
N-Nitrosodiphenylamine	2.00	1.55		ug/L		78	51 - 123	9	20	
Pentachlorophenol	4.00	2.13	J	ug/L		53	35 - 138	6	20	
Phenanthrene	2.00	1.54		ug/L		77	59 - 120	8	20	
Phenol	2.00	0.655	J	ug/L		33	13 - 120	8	20	
Pyrene	2.00	1.78		ug/L		89	57 - 126	8	20	
1,2,4-Trichlorobenzene	2.00	1.26		ug/L		63	29 - 116	12	20	
2,4,5-Trichlorophenol	2.00	1.47		ug/L		73	53 - 123	3	20	
2,4,6-Trichlorophenol	2.00	1.45		ug/L		73	50 - 125	16	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	72		44 - 119
2-Fluorophenol (Surr)	51		19 - 119
Nitrobenzene-d5 (Surr)	82		44 - 120
Phenol-d5 (Surr)	31		10 - 120
Terphenyl-d14	96		50 - 134
2,4,6-Tribromophenol	80		43 - 140

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 580-377585/1-A

Matrix: Water

Analysis Batch: 377651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 377585

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C9-C25	90	U	110	90	ug/L		01/06/22 10:45	01/06/22 21:07	1

Eurofins Seattle

QC Sample Results

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 580-377585/1-A
Matrix: Water
Analysis Batch: 377651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C24-C40	180	U	350	180	ug/L		01/06/22 10:45	01/06/22 21:07	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		56 - 125				01/06/22 10:45	01/06/22 21:07	1

Lab Sample ID: LCS 580-377585/2-A
Matrix: Water
Analysis Batch: 377651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C9-C25	4000	2790		ug/L		70	36 - 132
C24-C40	4000	3320		ug/L		83	41 - 113
Surrogate	%Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	70		56 - 125				

Lab Sample ID: LCSD 580-377585/3-A
Matrix: Water
Analysis Batch: 377651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377585

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
C9-C25	4000	2980		ug/L		74	36 - 132	7	20
C24-C40	4000	3670		ug/L		92	41 - 113	10	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	80		56 - 125						

Lab Chronicle

Client: AECOM
 Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Client Sample ID: 20220105-D3-ZT01

Lab Sample ID: 580-109011-1

Date Collected: 01/05/22 13:21

Matrix: Water

Date Received: 01/06/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260/CALUFT DOD		1	377829	01/08/22 16:08	CJ	FGS SEA
Total/NA	Analysis	8260D		1	377826	01/08/22 16:08	JSM	FGS SEA
Total/NA	Prep	3510C			377587	01/06/22 17:37	M1E	FGS SEA
Total/NA	Analysis	8270E		1	377665	01/07/22 02:11	E1L	FGS SEA
Total/NA	Prep	3510C			377585	01/06/22 17:38	M1E	FGS SEA
Total/NA	Analysis	8015D DRO		1	377651	01/07/22 01:09	JAE	FGS SEA

Client Sample ID: 20220105-F1-ZT02

Lab Sample ID: 580-109011-2

Date Collected: 01/05/22 14:30

Matrix: Water

Date Received: 01/06/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260/CALUFT DOD		1	377733	01/06/22 16:44	JSM	FGS SEA
Total/NA	Prep	3510C			377585	01/06/22 17:38	M1E	FGS SEA
Total/NA	Analysis	8015D DRO		1	377651	01/07/22 01:29	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



Accreditation/Certification Summary

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2236	01-19-22

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
8260D		Water	1,2-Dichloroethene, Total



Sample Summary

Client: AECOM
Project/Site: Red Hill CV18F0126

Job ID: 580-109011-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-109011-1	20220105-D3-ZT01	Water	01/05/22 13:21	01/06/22 10:50
580-109011-2	20220105-F1-ZT02	Water	01/05/22 14:30	01/06/22 10:50

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Eurofins FGS, Seattle

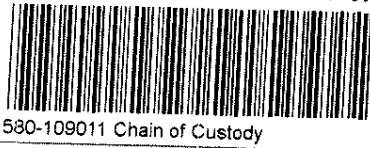
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing America

Client Information		Sampler: AECOM		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: <i>01052022 DLW03</i>														
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone:		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1														
Company: AECOM		PWSID:		Analysis Requested						Job #:												
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td rowspan="5">VOCs (Full Suite + TIC) by 8260</td> <td rowspan="5">TPH-g (C6-C10) by 8260</td> <td rowspan="5">SVOCs (Full Suite + TIC) by 8270</td> <td rowspan="5">TPH-d, TPH-o (C10-C24, C24-C40) by 8015</td> <td rowspan="5">Total Number of containers</td> </tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs (Full Suite + TIC) by 8260	TPH-g (C6-C10) by 8260	SVOCs (Full Suite + TIC) by 8270	TPH-d, TPH-o (C10-C24, C24-C40) by 8015	Total Number of containers					Preservation Codes:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs (Full Suite + TIC) by 8260	TPH-g (C6-C10) by 8260														SVOCs (Full Suite + TIC) by 8270	TPH-d, TPH-o (C10-C24, C24-C40) by 8015	Total Number of containers			
City: Honolulu		TAT Requested (days): Rush		A - HCL		M - Hexane																
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		B - NaOH		N - None																
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)		PO #:		C - Zn Acetate		O - AsNaO2																
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)		WO #:		D - Nitric Acid		P - Na2O4S																
Project Name: CV18F0126		Project #: 60674414		E - NaHSO4		Q - Na2SO3																
Site: RHSF		SSOW#:		F - MeOH		R - Na2S2O3																
				G - Amchlor		S - H2SO4																
				H - Ascorbic Acid		T - TSP Dodecahydrate																
				I - Ice		U - Acetone																
				J - DI Water		V - MCAA																
				K - EDTA		W - pH 4-5																
				L - EDA		Z - other (specify)																
				Other:																		
										Special Instructions/Note:												

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/vol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs (Full Suite + TIC) by 8260	TPH-g (C6-C10) by 8260	SVOCs (Full Suite + TIC) by 8270	TPH-d, TPH-o (C10-C24, C24-C40) by 8015	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	A	I	I	X	
<i>20220105-D3-ZT01</i>	<i>1/5/22</i>	<i>1321</i>	<i>G</i>	<i>W</i>	<i>N</i>	<i>M</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>8</i>	
<i>20220105-F1-ZT02</i>	<i>1/5/22</i>	<i>1430</i>	<i>G</i>	<i>W</i>	<i>N</i>	<i>M</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>5</i>	



Therm. ID: *129* Cor: *0.8* ° Unc: *0.5* °
Cooler Desc: *LB*
Packing: *Wet* FedEx: *PO*
Cust. Seal: Yes No UPS:
Blue Ice, Wet Dry, None Lab Cour:
Other:

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUS EDD.		Special Instructions/QC Requirements: DOD QSM project.			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>1/5/22 1450</i>		Company: <i>AECOM</i>		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>1/5/22 @ 1515</i>		Company: <i>AECOM</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-109011-1

Login Number: 109011

List Number: 1

Creator: Vallelunga, Diana L

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

AECOM

JBPHHH DW Sampling

SGS Job Number: DA40628

Sampling Date: 01/05/22

Report to:

AECOM, INC.

brian.rothmeyer@aecom.com

ATTN: Brian Rothmeyer

Total number of pages in report: 45



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Jason Savoie".

Jason Savoie
General Manager

Client Service contact: Larisa DiMarco 303-425-6021

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)
LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

AECOM

Job No: DA40628

JBPHHH DW Sampling

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
DA40628-1	01/05/22	14:30 SW	01/06/22	DW	Drinking Water	20220105-F1-ZT02
DA40628-2	01/05/22	14:25 SW	01/06/22	DW	Drinking Water	20220105-F1-ZT04

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: AECOM

Job No: DA40628

Site: JBPHHH Post Flush Housing

Report Date 1/7/2022 11:20:35 AM

On 01/06/2022, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 5.6 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA40628 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 524.2

Matrix: AQ

Batch ID: V8V1018

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA40628-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Friday, January 7, 2022

Page 1 of 1

Summary of Hits

Job Number: DA40628
Account: AECOM
Project: JBPHHH DW Sampling
Collected: 01/05/22



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

DA40628-1 20220105-F1-ZT02

Arsenic	1.2 J	2.0	0.50	ug/l	EPA 200.8
Barium	2.2	2.0	0.50	ug/l	EPA 200.8
Chromium	2.2	2.0	0.50	ug/l	EPA 200.8
Copper	5.7	2.0	0.50	ug/l	EPA 200.8
Lead	0.70	0.50	0.13	ug/l	EPA 200.8
Mercury	0.058 J	0.10	0.050	ug/l	EPA 245.1

DA40628-2 20220105-F1-ZT04

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 20220105-F1-ZT02		Date Sampled: 01/05/22
Lab Sample ID: DA40628-1		Date Received: 01/06/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 524.2		
Project: JBPHHH DW Sampling		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8V21849.D	1	01/06/22 13:40	DC	n/a	n/a	V8V1018
Run #2							

Run #1	Purge Volume
Run #1	25.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	5.0	0.50	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	5.0	0.50	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	100	0.50	0.50	ug/l	
95-50-1	o-Dichlorobenzene	0.50 U	600	0.50	0.50	ug/l	
106-46-7	p-Dichlorobenzene	0.50 U	75	0.50	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	5.0	0.50	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	7.0	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	70	0.50	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	100	0.50	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	5.0	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	700	0.50	0.50	ug/l	
75-09-2	Methylene chloride	0.50 U	5.0	0.50	0.50	ug/l	
100-42-5	Styrene	0.50 U	100	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	5.0	0.50	0.50	ug/l	
108-88-3	Toluene	0.50 U	1000	0.50	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	70	0.50	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	200	0.50	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	5.0	0.50	0.50	ug/l	
79-01-6	Trichloroethylene	0.50 U	5.0	0.50	0.50	ug/l	
75-01-4	Vinyl chloride	0.50 U	2.0	0.50	0.50	ug/l	
	m,p-Xylene	0.50 U		0.50	0.50	ug/l	
95-47-6	o-Xylene	0.50 U		0.50	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		70-130%
2199-69-1	1,2-Dichlorobenzene-d4	104%		70-130%

U = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 20220105-F1-ZT02		Date Sampled: 01/05/22
Lab Sample ID: DA40628-1		Date Received: 01/06/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 525.2 EPA 525.2		
Project: JBPHHH DW Sampling		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1G157189.D	1	01/06/22 17:55	DC	01/06/22 10:30	OP21020	E1G3084
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

SVOC Special List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
15972-60-8	Alachlor	0.19 U	2.0	0.19	0.19	ug/l	
1912-24-9	Atrazine	0.096 U	3.0	0.096	0.096	ug/l	
50-32-8	Benzo(a)pyrene	0.019 U	0.20	0.019	0.019	ug/l	
103-23-1	bis(2-Ethylhexyl)adipate	0.58 U	400	0.58	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.58 U	6.0	0.58	0.58	ug/l	
76-44-8	Heptachlor	0.019 U	0.40	0.038	0.019	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U		0.48	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U		0.48	0.48	ug/l	
91-20-3	Naphthalene	0.48 U		0.48	0.48	ug/l	
122-34-9	Simazine	0.067 U	4.0	0.067	0.067	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	Perylene-d12	104%		70-130%
	Pyrene-d10	112%		70-130%
115-86-6	Triphenyl phosphate	115%		70-130%

(a) Sample was not preserved to a pH of 2 during collection.

U = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID:	20220105-F1-ZT02	Date Sampled:	01/05/22
Lab Sample ID:	DA40628-1	Date Received:	01/06/22
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 505 EPA 505		
Project:	JBPHHH DW Sampling		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GEH50075.D	1	01/06/22 21:14	NO	01/06/22 09:00	OP21021	GEH1899
Run #2	GEH50066.D	1	01/06/22 19:02	NO	01/06/22 09:00	OP21021	GEH1899

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2	35.0 ml	2.0 ml

PCB 505 List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.010 U ^a	0.20	0.010	0.010	ug/l	
12789-03-6	Chlordane	0.20 U ^a	2.0	0.20	0.20	ug/l	
72-20-8	Endrin	0.010 U ^a	2.0	0.010	0.010	ug/l	
1024-57-3	Heptachlor epoxide	0.020 U ^a	0.20	0.020	0.020	ug/l	
118-74-1	Hexachlorobenzene	0.020 U ^a	1.0	0.020	0.020	ug/l	
77-47-4	Hexachlorocyclopentadiene	0.040 U ^a	50	0.040	0.040	ug/l	
72-43-5	Methoxychlor	0.020 U ^a	40	0.020	0.020	ug/l	
12674-11-2	Aroclor 1016	0.080 U	0.50	0.080	0.080	ug/l	
11104-28-2	Aroclor 1221	0.10 U	0.50	0.10	0.10	ug/l	
11141-16-5	Aroclor 1232	0.10 U	0.50	0.10	0.10	ug/l	
53469-21-9	Aroclor 1242	0.10 U	0.50	0.10	0.10	ug/l	
12672-29-6	Aroclor 1248	0.10 U	0.50	0.10	0.10	ug/l	
11097-69-1	Aroclor 1254	0.10 U	0.50	0.10	0.10	ug/l	
11096-82-5	Aroclor 1260	0.10 U	0.50	0.10	0.10	ug/l	
1336-36-3	Total PCBs	0.10 U	0.50	0.10	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%	106%	70-140%
877-09-8	Tetrachloro-m-xylene	102%	90%	70-140%

(a) Result is from Run# 2

U = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 20220105-F1-ZT02	Date Sampled: 01/05/22
Lab Sample ID: DA40628-1	Date Received: 01/06/22
Matrix: DW - Drinking Water	Percent Solids: n/a
Project: JBPHHH DW Sampling	

Total Metals Analysis

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.10 U	6.0	0.40	0.10	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Arsenic	1.2 J	10	2.0	0.50	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Barium	2.2	2000	2.0	0.50	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Beryllium	0.15 U	4.0	0.30	0.15	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Cadmium	0.050 U	5.0	0.15	0.050	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Chromium	2.2	100	2.0	0.50	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Copper	5.7	1300	2.0	0.50	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Lead	0.70	15	0.50	0.13	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Mercury	0.058 J	2.0	0.10	0.050	ug/l	1	01/06/22	01/07/22	CDL EPA 245.1 ¹	EPA 245.1 ⁴
Selenium	0.30 U	50	0.70	0.30	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³
Thallium	0.050 U	2.0	0.20	0.050	ug/l	1	01/06/22	01/07/22	GH EPA 200.8 ²	EPA 200.8 ³

- (1) Instrument QC Batch: MA14503
- (2) Instrument QC Batch: MA14504
- (3) Prep QC Batch: MP33996
- (4) Prep QC Batch: MP33997

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 141) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 20220105-F1-ZT02	Date Sampled: 01/05/22
Lab Sample ID: DA40628-1	Date Received: 01/06/22
Matrix: DW - Drinking Water	Percent Solids: n/a
Project: JBPHHH DW Sampling	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	0.22 U	0.50	0.22	mg/l	1	01/06/22 12:03 JB	SM	5310C-2011

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 J = Indicates a result > = MDL but < RL

4.1
4

Report of Analysis

Client Sample ID: 20220105-F1-ZT04		Date Sampled: 01/05/22
Lab Sample ID: DA40628-2		Date Received: 01/06/22
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 524.2		
Project: JBPHHH DW Sampling		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8V21851.D	1	01/06/22 14:35	DC	n/a	n/a	V8V1018
Run #2							

Run #1	Purge Volume
Run #1	25.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	5.0	0.50	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	5.0	0.50	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	100	0.50	0.50	ug/l	
95-50-1	o-Dichlorobenzene	0.50 U	600	0.50	0.50	ug/l	
106-46-7	p-Dichlorobenzene	0.50 U	75	0.50	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	5.0	0.50	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	7.0	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	70	0.50	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	100	0.50	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	5.0	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	700	0.50	0.50	ug/l	
75-09-2	Methylene chloride	0.50 U	5.0	0.50	0.50	ug/l	
100-42-5	Styrene	0.50 U	100	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	5.0	0.50	0.50	ug/l	
108-88-3	Toluene	0.50 U	1000	0.50	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	70	0.50	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	200	0.50	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	5.0	0.50	0.50	ug/l	
79-01-6	Trichloroethylene	0.50 U	5.0	0.50	0.50	ug/l	
75-01-4	Vinyl chloride	0.50 U	2.0	0.50	0.50	ug/l	
	m,p-Xylene	0.50 U		0.50	0.50	ug/l	
95-47-6	o-Xylene	0.50 U		0.50	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-130%
2199-69-1	1,2-Dichlorobenzene-d4	103%		70-130%

U = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

DA40628

Page 1 of 1

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street
Wheat Ridge, CO 80033-3862
303-425-6021; 877-737-4521
FAX: 303-425-6854
www.sgs.com/ehsu2a

Client/Reporting information, Billing information, Project information, Client PO #, SGS Quote/Bottle Order #

Turn Around Time (Business days)
Standard 10 Business Days
5 Business Days RUSH
3 Business Days RUSH
2 Business Days RUSH
1 Business Day EMERGENCY
State Form Information
Compliance Samples Yes No
Submit Results to State Portal Yes No

Drinking Water Analyses (check analysis) table with columns for analytes (THM, VOC, Haloacetic Acids, etc.) and checkboxes for analysis.

Special Instructions:
* Inorganic Metals Include: Sb, As, Ba, Be, Cd, Cr, Hg, Ni, Se, Na, Tl

Sample Custody must be documented below each time samples change possession, including courier delivery.
Relinquished by, Received By, Date/Time, Relinquished By, Received By, Date/Time

EHS4-04C-0026-02-FORM-Wheat Ridge - DW COC: Rev. Date: 8/18/20



5.1
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SGS Sample Receipt Summary

Job Number: DA40628

Client: AECOM

Project: 60674414

Date / Time Received: 1/6/2022 8:50:00 AM

Delivery Method:

Airbill #'s: HD

Cooler Temps (Initial/Adjusted): 0

Cooler Security

- | | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

- | | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | : | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

- | | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---------------------------------|-------------------------------------|-----------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

Sample Integrity - Documentation

- | | <u>Y or N</u> | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | <u>Y or N</u> | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

- | | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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DA40628: Chain of Custody

Page 2 of 2

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8V1018-MB	8V21848.D	1	01/06/22	DC	n/a	n/a	V8V1018

The QC reported here applies to the following samples:

Method: EPA 524.2

DA40628-1, DA40628-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.50	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.50	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.50	ug/l	
100-42-5	Styrene	ND	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.50	ug/l	
108-88-3	Toluene	ND	0.50	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.50	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.50	ug/l	
	m,p-Xylene	ND	0.50	0.50	ug/l	
95-47-6	o-Xylene	ND	0.50	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	97%	70-130%
2199-69-1	1,2-Dichlorobenzene-d4	103%	70-130%

Blank Spike Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8V1018-BS	8V21847.D	1	01/06/22	DC	n/a	n/a	V8V1018

The QC reported here applies to the following samples:

Method: EPA 524.2

DA40628-1, DA40628-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	5	5.5	110	70-130
56-23-5	Carbon tetrachloride	5	5.8	116	70-130
108-90-7	Chlorobenzene	5	6.0	120	70-130
95-50-1	o-Dichlorobenzene	5	5.3	106	70-130
106-46-7	p-Dichlorobenzene	5	5.6	112	70-130
107-06-2	1,2-Dichloroethane	5	5.7	114	70-130
75-35-4	1,1-Dichloroethylene	5	5.6	112	70-130
156-59-2	cis-1,2-Dichloroethylene	5	5.6	112	70-130
156-60-5	trans-1,2-Dichloroethylene	5	5.5	110	70-130
78-87-5	1,2-Dichloropropane	5	5.7	114	70-130
100-41-4	Ethylbenzene	5	5.7	114	70-130
75-09-2	Methylene chloride	5	5.4	108	70-130
100-42-5	Styrene	5	5.6	112	70-130
127-18-4	Tetrachloroethylene	5	5.8	116	70-130
108-88-3	Toluene	5	6.2	124	70-130
120-82-1	1,2,4-Trichlorobenzene	5	5.6	112	70-130
71-55-6	1,1,1-Trichloroethane	5	5.6	112	70-130
79-00-5	1,1,2-Trichloroethane	5	5.8	116	70-130
79-01-6	Trichloroethylene	5	5.8	116	70-130
75-01-4	Vinyl chloride	5	5.9	118	70-130
	m,p-Xylene	10	12.6	126	70-130
95-47-6	o-Xylene	5	6.0	120	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	70-130%
2199-69-1	1,2-Dichlorobenzene-d4	106%	70-130%

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA40628-1DUP	8V21850.D	1	01/06/22	DC	n/a	n/a	V8V1018
DA40628-1	8V21849.D	1	01/06/22	DC	n/a	n/a	V8V1018

The QC reported here applies to the following samples:

Method: EPA 524.2

DA40628-1, DA40628-2

CAS No.	Compound	DA40628-1 ug/l	DUP Q ug/l	Q	RPD	Limits
71-43-2	Benzene	0.50 U	ND		nc	30
56-23-5	Carbon tetrachloride	0.50 U	ND		nc	30
108-90-7	Chlorobenzene	0.50 U	ND		nc	30
95-50-1	o-Dichlorobenzene	0.50 U	ND		nc	30
106-46-7	p-Dichlorobenzene	0.50 U	ND		nc	30
107-06-2	1,2-Dichloroethane	0.50 U	ND		nc	30
75-35-4	1,1-Dichloroethylene	0.50 U	ND		nc	30
156-59-2	cis-1,2-Dichloroethylene	0.50 U	ND		nc	30
156-60-5	trans-1,2-Dichloroethylene	0.50 U	ND		nc	30
78-87-5	1,2-Dichloropropane	0.50 U	ND		nc	30
100-41-4	Ethylbenzene	0.50 U	ND		nc	30
75-09-2	Methylene chloride	0.50 U	ND		nc	30
100-42-5	Styrene	0.50 U	ND		nc	30
127-18-4	Tetrachloroethylene	0.50 U	ND		nc	30
108-88-3	Toluene	0.50 U	ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	0.50 U	ND		nc	30
71-55-6	1,1,1-Trichloroethane	0.50 U	ND		nc	30
79-00-5	1,1,2-Trichloroethane	0.50 U	ND		nc	30
79-01-6	Trichloroethylene	0.50 U	ND		nc	30
75-01-4	Vinyl chloride	0.50 U	ND		nc	30
	m,p-Xylene	0.50 U	ND		nc	30
95-47-6	o-Xylene	0.50 U	ND		nc	30

CAS No.	Surrogate Recoveries	DUP	DA40628-1	Limits
460-00-4	4-Bromofluorobenzene	91%	94%	70-130%
2199-69-1	1,2-Dichlorobenzene-d4	104%	104%	70-130%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: DA40628
Account: AECOMHIIH AECOM
Project: JBPHHH DW Sampling

Method: EPA 524.2	Matrix: AQ
--------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
DA40628-1	8V21849.D	94	104
DA40628-2	8V21851.D	95	103
DA40628-1DUP	8V21850.D	91	104
V8V1018-BS	8V21847.D	108	106
V8V1018-MB	8V21848.D	97	103

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	70-130%
S2 = 1,2-Dichlorobenzene-d4	70-130%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21020-MB	1G157185.D	1	01/06/22	DC	01/06/22	OP21020	E1G3084

The QC reported here applies to the following samples:

Method: EPA 525.2

DA40628-1

CAS No.	Compound	Result	RL	MDL	Units	Q
15972-60-8	Alachlor	ND	0.20	0.20	ug/l	
1912-24-9	Atrazine	ND	0.10	0.10	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.020	0.020	ug/l	
103-23-1	bis(2-Ethylhexyl)adipate	ND	0.60	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.60	0.60	ug/l	
76-44-8	Heptachlor	ND	0.040	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.50	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.50	0.50	ug/l	
91-20-3	Naphthalene	ND	0.50	0.50	ug/l	
122-34-9	Simazine	ND	0.070	0.070	ug/l	

CAS No.	Surrogate Recoveries	Limits	
	Perylene-d12	101%	70-130%
	Pyrene-d10	111%	70-130%
115-86-6	Triphenyl phosphate	110%	70-130%

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Blank Spike Summary

Job Number: DA40628
Account: AECOMHHH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21020-BS	1G157186.D	1	01/06/22	DC	01/06/22	OP21020	E1G3084

The QC reported here applies to the following samples:

Method: EPA 525.2

DA40628-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
15972-60-8	Alachlor	1	1.2	120	70-130
1912-24-9	Atrazine	1	1.2	120	70-130
50-32-8	Benzo(a)pyrene	2	2.1	105	70-130
103-23-1	bis(2-Ethylhexyl)adipate	1	1.2	120	70-130
117-81-7	bis(2-Ethylhexyl)phthalate	1	1.3	130	70-130
76-44-8	Heptachlor	1	1.2	120	70-130
122-34-9	Simazine	1	1.1	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	Perylene-d12	104%	70-130%
	Pyrene-d10	108%	70-130%
115-86-6	Triphenyl phosphate	112%	70-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21020-MS	1G157188.D	1	01/06/22	DC	01/06/22	OP21020	E1G3084
DA40628-1 ^a	1G157189.D	1	01/06/22	DC	01/06/22	OP21020	E1G3084

The QC reported here applies to the following samples:

Method: EPA 525.2

DA40628-1

CAS No.	Compound	DA40628-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	Limits
15972-60-8	Alachlor	0.19 U	0.962	1.2	125	70-130	
1912-24-9	Atrazine	0.096 U	0.962	1.1	114	70-130	
50-32-8	Benzo(a)pyrene	0.019 U	1.92	2.1	109	70-130	
103-23-1	bis(2-Ethylhexyl)adipate	0.58 U	0.962	1.2	125	70-130	
117-81-7	bis(2-Ethylhexyl)phthalate	0.58 U	0.962	1.4	146* ^b	70-130	
76-44-8	Heptachlor	0.038 U	0.962	1.2	125	70-130	
122-34-9	Simazine	0.067 U	0.962	1.0	104	70-130	

CAS No.	Surrogate Recoveries	MS	DA40628-1	Limits
	Perylene-d12	104%	104%	70-130%
	Pyrene-d10	109%	112%	70-130%
115-86-6	Triphenyl phosphate	112%	115%	70-130%

(a) Sample was not preserved to a pH of 2 during collection.

(b) Outside control limits due to possible matrix interference.

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Method: EPA 525.2	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
DA40628-1	1G157189.D	104	112	115
OP21020-BS	1G157186.D	104	108	112
OP21020-MB	1G157185.D	101	111	110
OP21020-MS	1G157188.D	104	109	112

Surrogate Compounds	Recovery Limits
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S1 = Perylene-d12	70-130%
S2 = Pyrene-d10	70-130%
S3 = Triphenyl phosphate	70-130%

7.4.1
7

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: DA40628
Account: AECOMHIIH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21021-MB	GEH50063.D	1	01/06/22	NO	01/06/22	OP21021	GEH1899

The QC reported here applies to the following samples:

Method: EPA 505

DA40628-1

CAS No.	Compound	Result	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.010	ug/l	
12789-03-6	Chlordane	ND	0.20	0.20	ug/l	
72-20-8	Endrin	ND	0.010	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.020	0.020	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.020	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	0.040	0.040	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.020	ug/l	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	95%	70-140%
877-09-8	Tetrachloro-m-xylene	78%	70-140%

8.1.1
8

Method Blank Summary

Job Number: DA40628
Account: AECOMHIIH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21021-MB	GEH50073.D	1	01/06/22	NO	01/06/22	OP21021	GEH1899

The QC reported here applies to the following samples:

Method: EPA 505

DA40628-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.080	0.080	ug/l	
11104-28-2	Aroclor 1221	ND	0.10	0.10	ug/l	
11141-16-5	Aroclor 1232	ND	0.10	0.10	ug/l	
53469-21-9	Aroclor 1242	ND	0.10	0.10	ug/l	
12672-29-6	Aroclor 1248	ND	0.10	0.10	ug/l	
11097-69-1	Aroclor 1254	ND	0.10	0.10	ug/l	
11096-82-5	Aroclor 1260	ND	0.10	0.10	ug/l	
1336-36-3	Total PCBs	ND	0.10	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	87%	70-140%
877-09-8	Tetrachloro-m-xylene	89%	70-140%

8.1.2
8

Blank Spike Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21021-BS1	GEH50064.D	1	01/06/22	NO	01/06/22	OP21021	GEH1899

The QC reported here applies to the following samples:

Method: EPA 505

DA40628-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
58-89-9	gamma-BHC (Lindane)	0.5	0.53	106	70-130
72-20-8	Endrin	0.5	0.55	110	70-130
1024-57-3	Heptachlor epoxide	0.5	0.58	116	70-130
118-74-1	Hexachlorobenzene	0.5	0.59	118	70-130
77-47-4	Hexachlorocyclopentadiene	1	1.0	100	70-130
72-43-5	Methoxychlor	0.5	0.55	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	109%	70-140%
877-09-8	Tetrachloro-m-xylene	107%	70-140%

* = Outside of Control Limits.

8.2.1
8

Blank Spike Summary

Job Number: DA40628
Account: AECOMHIIH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21021-BS2	GEH50074.D	1	01/06/22	NO	01/06/22	OP21021	GEH1899

The QC reported here applies to the following samples:

Method: EPA 505

DA40628-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	1.5	1.8	120	70-130
11096-82-5	Aroclor 1260	1.5	1.9	127	70-130
1336-36-3	Total PCBs	3	3.7	123	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	109%	70-140%
877-09-8	Tetrachloro-m-xylene	109%	70-140%

8.2.2
8

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21021-MS1	GEH50065.D	1	01/06/22	NO	01/06/22	OP21021	GEH1899
DA40628-1	GEH50066.D	1	01/06/22	NO	01/06/22	OP21021	GEH1899

The QC reported here applies to the following samples:

Method: EPA 505

DA40628-1

CAS No.	Compound	DA40628-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	Limits
58-89-9	gamma-BHC (Lindane)	0.010 U	0.5	0.53	106	65-135	
72-20-8	Endrin	0.010 U	0.5	0.54	108	65-135	
1024-57-3	Heptachlor epoxide	0.020 U	0.5	0.58	116	65-135	
118-74-1	Hexachlorobenzene	0.020 U	0.5	0.58	116	65-135	
77-47-4	Hexachlorocyclopentadiene	0.040 U	1	1.0	100	65-135	
72-43-5	Methoxychlor	0.020 U	0.5	0.60	120	65-135	

CAS No.	Surrogate Recoveries	MS	DA40628-1	Limits
877-09-8	Tetrachloro-m-xylene	108%	106%	70-140%
877-09-8	Tetrachloro-m-xylene	117%	90%	70-140%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: DA40628
Account: AECOM/HH AECOM
Project: JBPHHH DW Sampling

Method: EPA 505	Matrix: DW
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b
DA40628-1	GEH50066.D	106	90
DA40628-1	GEH50075.D	95	102
OP21021-BS1	GEH50064.D	109	107
OP21021-BS2	GEH50074.D	109	109
OP21021-MB	GEH50063.D	95	78
OP21021-MB	GEH50073.D	87	89
OP21021-MS1	GEH50065.D	108	117

Surrogate Compounds	Recovery Limits
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S1 = Tetrachloro-m-xylene	70-140%
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- (a) Recovery from GC signal #2
- (b) Recovery from GC signal #1

8.4.1
8

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA40628
Account: AECOMHIH - AECOM
Project: JBPHHH DW Sampling

QC Batch ID: MP33996
Matrix Type: DRINKING WATER

Methods: EPA 200.8
Units: mg/l

Prep Date: 01/06/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.001	.02		
Antimony	0.00040	.00001	.0001	0.000052	<0.00040
Arsenic	0.0020	.00032	.0005	-0.000093	<0.0020
Barium	0.0020	.0001	.0005	0.00037	<0.0020
Beryllium	0.00030	.000077	.00015	0.000044	<0.00030
Boron	0.040	.021	.03		
Cadmium	0.00015	.000023	.00005	-0.000030	<0.00015
Calcium	0.40	.025	.1		
Chromium	0.0020	.00005	.0005	-0.00014	<0.0020
Cobalt	0.00020	.000051	.000075		
Copper	0.0020	.000054	.0005	0.00012	<0.0020
Iron	0.020	.0029	.01		
Lead	0.00050	.000026	.00013	0.000020	<0.00050
Magnesium	0.10	.01	.025		
Manganese	0.0010	.000045	.0004		
Molybdenum	0.0010	.000026	.00025		
Nickel	0.0020	.000037	.001		
Potassium	0.20	.006	.05		
Selenium	0.00070	.00014	.0003	-0.000022	<0.00070
Silver	0.00010	.000005	.000025		
Sodium	0.50	.01	.13		
Strontium	0.020	.0001	.005		
Thallium	0.00020	.000016	.00005	0.0000078	<0.00020
Tin	0.010	.00022	.0025		
Titanium	0.0050	.00011	.0019		
Uranium	0.00020	.000015	.00005		
Vanadium	0.040	.002	.005		
Zinc	0.010	.00005	.0025		

Associated samples MP33996: DA40628-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40628
 Account: AECOMHIH - AECOM
 Project: JBPHHH DW Sampling

QC Batch ID: MP33996
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: mg/l

Prep Date: 01/06/22

Metal	DA40427-1 Original MS	SpikeLot ICPALL4	% Rec	QC Limits
Aluminum				
Antimony	0.000083 0.13	0.10	129.9	70-130
Arsenic	0.00070 0.21	0.20	104.7	70-130
Barium	0.060 0.51	0.40	112.5	70-130
Beryllium	0.0 0.11	0.10	110.0	70-130
Boron				
Cadmium	0.0 0.10	0.10	100.0	70-130
Calcium				
Chromium	0.00049 0.094	0.10	93.5	70-130
Cobalt				
Copper	0.0013 0.10	0.10	98.7	70-130
Iron	anr			
Lead	0.00023 0.20	0.20	99.9	70-130
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.00078 0.20	0.20	99.6	70-130
Silver				
Sodium	anr			
Strontium				
Thallium	0.000072 0.20	0.20	100.0	70-130
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	anr			

Associated samples MP33996: DA40628-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.12
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40628
 Account: AECOMHIH - AECOM
 Project: JBPHHH DW Sampling

QC Batch ID: MP33996
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: mg/l

Prep Date: 01/06/22

Metal	DA40427-1 Original MSD	SpikeLot ICPAL4	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony	0.000083 0.13	0.10	129.9	0.0	20
Arsenic	0.00070 0.22	0.20	109.7	4.7	20
Barium	0.060 0.50	0.40	110.0	2.0	20
Beryllium	0.0 0.10	0.10	100.0	9.5	20
Boron					
Cadmium	0.0 0.10	0.10	100.0	0.0	20
Calcium					
Chromium	0.00049 0.098	0.10	97.5	4.2	20
Cobalt					
Copper	0.0013 0.10	0.10	98.7	0.0	20
Iron	anr				
Lead	0.00023 0.21	0.20	104.9	4.9	20
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium	0.00078 0.21	0.20	104.6	4.9	20
Silver					
Sodium	anr				
Strontium					
Thallium	0.000072 0.21	0.20	105.0	4.9	20
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	anr				

Associated samples MP33996: DA40628-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.1.2
 9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA40628
 Account: AECOMHIH - AECOM
 Project: JBP HHH DW Sampling

QC Batch ID: MP33996
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: mg/l

Prep Date: 01/06/22

Metal	BSP Result	Spikelot ICPALL4	% Rec	QC Limits
Aluminum				
Antimony	0.13	0.10	130.0*(a)	85-115
Arsenic	0.21	0.20	105.0	85-115
Barium	0.44	0.40	110.0	85-115
Beryllium	0.10	0.10	100.0	85-115
Boron				
Cadmium	0.10	0.10	100.0	85-115
Calcium				
Chromium	0.098	0.10	98.0	85-115
Cobalt				
Copper	0.10	0.10	100.0	85-115
Iron	anr			
Lead	0.21	0.20	105.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.20	0.20	100.0	85-115
Silver				
Sodium	anr			
Strontium				
Thallium	0.21	0.20	105.0	85-115
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	anr			

Associated samples MP33996: DA40628-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Outside control limits biased high. Reported samples are ND.

9.1.3
 9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA40628
Account: AECOMHIH - AECOM
Project: JBPHHH DW Sampling

QC Batch ID: MP33997
Matrix Type: DRINKING WATER

Methods: EPA 245.1
Units: mg/l

Prep Date: 01/06/22

Metal	RL	IDL	MDL	MB	
				raw	final
Mercury	0.00010	.000015	.00005	-0.000023	<0.00010

Associated samples MP33997: DA40628-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40628
Account: AECOMHIH - AECOM
Project: JBPHHH DW Sampling

QC Batch ID: MP33997
Matrix Type: DRINKING WATER

Methods: EPA 245.1
Units: mg/l

Prep Date: 01/06/22

Metal	DA40427-1 Original MS	SpikeLot HGWSR1	% Rec	QC Limits
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Mercury 0.000029 0.0036 0.0031 114.3 70-130

Associated samples MP33997: DA40628-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40628
 Account: AECOMHIH - AECOM
 Project: JBPHHH DW Sampling

QC Batch ID: MP33997
 Matrix Type: DRINKING WATER

Methods: EPA 245.1
 Units: mg/l

Prep Date: 01/06/22

Metal	DA40427-1 Original MSD	SpikeLot HGWSR1	% Rec	MSD RPD	QC Limit
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Mercury	0.000029 0.0036	0.0031	114.3	0.0	20
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Associated samples MP33997: DA40628-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA40628
 Account: AECOMHIH - AECOM
 Project: JBPPIH DW Sampling

QC Batch ID: MP33997
 Matrix Type: DRINKING WATER

Methods: EPA 245.1
 Units: mg/l

Prep Date: 01/06/22

Metal	BSP Result	Spikelot HGWSR1	% Rec	QC Limits
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Mercury 0.0036 0.0031 115.2*(a 85-115

Associated samples MP33997: DA40628-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Outside control limits biased high. Reported samples are ND.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40628
Account: AECOMHIH - AECOM
Project: JBPHHH DW Sampling

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP30479/GN55107	0.50	0.0	mg/l	4.68	4.82	103.0	90-110%

Associated Samples:
Batch GP30479: DA40628-1
(*) Outside of QC limits

10.1
10

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40628
Account: AECOMHIH - AECOM
Project: JBPHHH DW Sampling

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP30479/GN55107	DA40628-1	mg/l	0.22 U	2	2.1	105.0	80-120%

Associated Samples:

Batch GP30479: DA40628-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

10.2
10

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40628
Account: AECOMHIH - AECOM
Project: JBPHHH DW Sampling

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Total Organic Carbon	GP30479/GN55107	DA40628-1	mg/l	0.22 U	2	2.1	0.0	20%

Associated Samples:

Batch GP30479: DA40628-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

Memorandum

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To	Karen Mixon, Data Validation Manager	Info	Complete
Subject	Summary Data Quality Review Joint Base Pearl Harbor-Hickam, Hawaii Red Hill Bulk Fuel Storage Facility		
From	Jennifer B. Garner, Chemist		
Date	January 13, 2022		

The summary data quality review of 4 water samples and 1 trip blank collected on January 5 and January 6, 2022, has been completed. The samples were collected by AECOM personnel and were analyzed at Eurofins TestAmerica, in Seattle, Washington, for volatile organic compounds (VOCs) by EPA Method 8260D, semivolatiles organic compounds (SVOCs) by EPA Method 8270E, and/or total petroleum hydrocarbons (TPHs) by EPA Method 8260/CALUFT (gasoline-range, C6-C12 hydrocarbons) and EPA Method 8015D (diesel range, C9-C25 hydrocarbons, and motor oil range, C24-C40 hydrocarbons). The analyses were performed in general accordance with the methods specified in EPA's *Test Methods for Evaluating Solid Waste (SW-846)*. The laboratory provided summary reports containing sample results and associated quality assurance (QA) and quality control (QC) data. The following samples are associated with Eurofins TestAmerica-Seattle laboratory groups 580-109011-1 and 580-109054-1:

Sample ID	Laboratory ID	Requested Analyses
20220105-D3-ZT01	580-109011-1	VOCs, SVOCs, TPH
20220105-F1-ZT02	580-109011-2	TPH
20220105-C1-ZT03	580-109054-1	VOCs, SVOCs, TPH
20220105-D3-ZT02 (trip blank)	580-109054-2	TPH (gasoline range)
20220105-D3-ZT03	580-109054-3	TPH

Upon receipt by Eurofins TestAmerica-Seattle, the sample jar information was compared to the associated chain-of-custody (COC) and the cooler temperatures were recorded. No discrepancies relating to sample identification were noted by the laboratory. Two coolers submitted in association with laboratory group 580-109054-1 were received at temperatures below the EPA-recommended limits of greater than 0°C and less than or equal to 6°C at -0.7°C and -0.2°C. No sample containers were received frozen; therefore, no data were qualified based on the cooler temperatures.

Data validation is based on method performance criteria and QC criteria documented in the laboratory reports. Holding times, field/method/trip blanks, surrogate recoveries, laboratory control sample results, and reporting limits were reviewed to assess compliance with applicable methods and laboratory control criteria. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA document *National Functional Guidelines for Organic Superfund Methods Data Review*, November 2020. The following results required qualification:

- The percent recovery for the VOC surrogate toluene-d8 was below the laboratory control limits of 89-112% in 20220105-D3-ZT01 (6%). The toluene-d8 recovery was below 10% in this sample; therefore, all VOC results were rejected.



**Summary Data Quality Review
Joint Base Pearl Harbor-Hickam, Hawaii
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- The percent recoveries for the following SVOC surrogates were outside the laboratory control limits:

Sample ID	2-Fluorophenol (19-119%)	Phenol-d5 (10-120%)	2,4,6-Tribromophenol (43-140%)
20220105-D3-ZT01	1%	0.5%	151%
20220105-C1-ZT03	6%	0.3%	acceptable

Two or more acid-fraction SVOC surrogate recoveries were below 10% in each of the samples noted above; therefore, the results for all acid-fraction SVOCs reported as not detected in 20220105-D3-ZT01 and 20220105-C1-ZT03 were rejected. The results for bis(2-chloroethoxy)ether and 3&4-methylphenol in 20220105-C1-ZT03 were qualified as estimated and flagged ‘J-.’

- The laboratory noted that the minimum response factors (RFs) for bis-(2-chloroethyl)ether and n-nitroso-di-n-propylamine were outside the method control criteria in the continuing calibration verification (CCV) associated with analysis batch 580-377665. The results for bis-(2-chloroethyl)ether and n-nitroso-di-n-propylamine in 20220105-D3-ZT01 were qualified as estimated and flagged ‘J.’
- The laboratory noted that the minimum RF for n-nitroso-di-n-propylamine was outside the method control criteria in the continuing calibration verification (CCV) associated with analysis batch 580-377805. The result for n-nitroso-di-n-propylamine in 20220105-C1-ZT03 was qualified as estimated and flagged ‘J.’

Memorandum

To	Karen Mixon, Data Validation Manager	Info	Complete
Subject	Summary Data Quality Review Joint Base Pearl Harbor-Hickam, Hawaii Red Hill Bulk Fuel Storage Facility		
From	Lucy Panteleeff, Chemist		
Date	January 15, 2022		

The summary data quality review of 6 water samples and 4 rinsate or trip blanks collected on January 1 and January 4, 2022, has been completed. The samples were collected by AECOM personnel and were analyzed at Eurofins TestAmerica, in Seattle, Washington, for volatile organic compounds (VOCs) by EPA Method 8260D, semivolatile organic compounds (SVOCs) by EPA Method 8270E, and/or total petroleum hydrocarbons (TPHs) by EPA Method 8260/CALUFT (gasoline-range, C6-C12 hydrocarbons) and EPA Method 8015D (diesel range, C9-C25 hydrocarbons, and motor oil range, C24-C40 hydrocarbons). The analyses were performed in general accordance with the methods specified in EPA's *Test Methods for Evaluating Solid Waste (SW-846)*. The laboratory provided summary reports containing sample results and associated quality assurance (QA) and quality control (QC) data. The following samples are associated with Eurofins TestAmerica-Seattle laboratory groups 580-108869, 580-108952, and 580-109009-1:

Sample ID	Laboratory ID	Requested Analyses
D2-DWS-TBD2-429-010122-N (trip blank)	580-108869-1	TPH (gasoline-range)
D2-DWS-D2-429-010122-N	580-108869-2	TPHs
A2-DWS-A2-3-1-010122-N	580-108869-3	TPHs
20220104-F1-TY-01 (trip blank)	580-108952-1	VOCs, TPH
20220104-F1-TY-02	580-108952-2	VOCs, SVOCs, TPH
20220104-A1-ZT02 (trip blank)	580-108952-3	TPH (gasoline-range)
20220104-A1-ZT03	580-108952-4	TPHs
20220104-A2-ZT06 (rinsate blank)	580-109009-1	TPH (gasoline-range)
20220104-A2-ZT07	580-109009-2	TPHs
20220104-A2-ZT08	580-109009-3	TPHs

Upon receipt by Eurofins TestAmerica-Seattle, the sample jar information was compared to the associated chain-of-custody (COC) and the cooler temperature was recorded. No discrepancies relating to sample identification were noted by the laboratory. One cooler associated with laboratory group 580-109009-1 was received at a temperature below the EPA-recommended limits of greater than 0°C and less than or equal to 6°C, at 0.0°C. The laboratory did not note that any samples were received frozen; therefore, data were not qualified based on the low cooler temperature.

Data validation is based on method performance criteria and QC criteria documented in the laboratory reports. Holding times, field/method/trip blanks, surrogate recoveries, laboratory control sample results, and reporting limits were reviewed to assess compliance with applicable methods and laboratory control criteria. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA document *National Functional Guidelines for Organic Superfund Methods Data Review*, November 2020. The following results required qualification:

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- The percent recoveries for the following SVOC surrogates were outside the laboratory control limits:

Sample ID	2-Fluorophenol (19-119%)	Phenol-d5 (10-120%)	2,4,6-Tribromophenol (43-140%)
20220104-F1-TY-02	0.2%	0.1%	41%

All of the acid-fraction SVOC surrogate recoveries were below 10% in the sample noted above; therefore, the results for all acid-fraction SVOCs reported as not detected in 20220104-F1-TY-02 were rejected. The acid-fraction SVOCs are listed below:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2-Chlorophenol
2-Methylphenol
3 & 4 Methylphenol
4,6-Dinitro-2-methylphenol
4-Chloro-3-methylphenol
4-Nitrophenol
Pentachlorophenol
Phenol

- The laboratory noted that the percent difference (%D) for hexachlorocyclopentadiene in the continuing calibration verification (CCV) associated with batch 377587 was below the method control criteria. The result for hexachlorocyclopentadiene in 20220104-F1-TY-02 was qualified as estimated and flagged 'UJ.'
- The laboratory noted that the minimum response factors (RFs) for bis(2-chloroethyl)ether and n-nitrosodi-n-propylamine were outside the method control criteria in the CCV associated with analysis batch 377587. The results for bis(2-chloroethyl)ether and n-nitrosodi-n-propylamine in 20220104-F1-TY-02 were qualified as estimated and flagged 'UJ.'
- The following analyte exceeded the Incident Specific Screening Criteria:

Sample Name	Analyte	Result	MDL	Incident Specific Screening Criteria	Units
20220104-F1-TY-02	Hexachlorobenzene	ND	0.041	0.0003	µg/L

Memorandum

To Karen Mixon, Data Validation Manager Info Complete

Subject Summary Data Quality Review
 Joint Base Pearl Harbor-Hickam, Hawaii
 Red Hill Bulk Fuel Storage Facility

From Brian Nagy, Project Manager

Date January 15, 2022

The summary data quality review of 1 drinking water sample and 1 trip blank collected on January 5, 2022, has been completed. The samples were collected by AECOM personnel and were analyzed at SGS North America, in Wheat Ridge, Colorado, for volatile organic compounds (VOCs) by EPA Method 524.2, semi-volatile organic compounds (SVOCs) by EPA Method 525.2, polychlorinated biphenyls (PCBs) by EPA Method 505, metals by EPA Method 200.8, mercury by EPA Method 245.1, and/or total organic carbon (TOC) by Standard Methods (SM) 5310C. The analyses were performed in general accordance with EPA’s drinking water methods. The laboratory provided a summary report containing sample results and associated quality assurance (QA) and quality control (QC) data. The following samples are associated with SGS North America - Wheat Ridge laboratory group DA40628:

Sample ID	Laboratory ID	Requested Analyses
20220105-F1-ZT02	DA40628-1	524.2, 525.2, 505, 200.8, 245.1, SM5310C
20220105-F1-ZT04 (trip blank)	DA40628-2	524.2

Upon receipt by SGS North America - Wheat Ridge, the sample container information was compared to the associated chain-of-custody (COC) and the cooler temperature was recorded. No discrepancies relating to sample identification were noted by the laboratory. The one cooler submitted in association with laboratory group DA40628 was received at a temperature within the EPA-recommended limits of greater than 0°C and less than or equal to 6°C at 5.6°C.

Data validation is based on method performance criteria and QC criteria documented in the laboratory report. Holding times, method/trip blanks, surrogate recoveries, laboratory control sample results, and reporting limits were reviewed to assess compliance with applicable methods and laboratory control criteria. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA documents *National Functional Guidelines for Organic Superfund Methods Data Review*, November 2020 and *National Functional Guidelines for Inorganic Superfund Methods Data Review*, November 2020.

No sample results required qualification.

- The following analytes exceeded the Incident Specific Screening Criteria:

Sample Name	Analyte	Result	MDL	Incident Specific Screening Criteria	Units
20220105-F1-ZT02	Chlordane	ND	0.2	0.004	µg/L
20220105-F1-ZT02	Endrin	ND	0.01	0.0023	µg/L
20220105-F1-ZT02	Heptachlor	ND	0.019	0.0036	µg/L
20220105-F1-ZT02	Heptachlor epoxide	ND	0.02	0.0036	µg/L
20220105-F1-ZT02	Hexachlorobenzene	ND	0.02	0.0003	µg/L