

ANALYTICAL REPORT

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Laboratory Job ID: 580-110890-1
Client Project/Site: Red Hill GW
Revision: 1

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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	5
Client Sample Results	6
QC Sample Results	8
Chronicle	14
Certification Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE
Client: AECOM
Project: Red Hill GW
Report Number: 580-110890-1

Revision 1, March 22, 2022 - Client added analytes to the 8270E list.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

One sample was received on 3/2/2022 9:50 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.6° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample ERH2647 (RHMW06) (580-110890-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270E. The sample was prepared and analyzed on 03/07/2022.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-383057 was outside criteria for the following analyte: N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte is considered estimated.

1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene and Hexachloroethane exceeded the RPD limit for LCSD 580-383033/3-A. The LCS and LCSD recoveries were in control.

The continuing calibration verification (CCV) associated with batch 580-384627 recovered above the upper control limit for bis (2-chloroisopropyl) ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 580-384627/3).

Case Narrative

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

Job ID: 580-110890-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS SIM)

Sample ERH2647 (RHMW06) (580-110890-1) was analyzed for semivolatile organic compounds (GC-MS SIM) in accordance with 8270E SIM. The sample was prepared on 03/07/2022 and analyzed on 03/08/2022.

2-Methylnaphthalene exceeded the RPD limit for LCSD 580-383033/3-A. The LCS and LCSD recoveries were in control.

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



Definitions/Glossary

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

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
CFI	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 GW

Job ID: 580-110890-1

Client Sample ID: ERH2647 (RHMW06)

Lab Sample ID: 580-110890-1

Date Collected: 02/28/22 11:15

Matrix: Water

Date Received: 03/02/22 09:50

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.033	U M	0.10	0.019	ug/L		03/07/22 09:32	03/08/22 16:19	1
2-Methylnaphthalene	0.081	U M Q	0.20	0.040	ug/L		03/07/22 09:32	03/08/22 16:19	1
Acenaphthene	0.033	U M	0.10	0.014	ug/L		03/07/22 09:32	03/08/22 16:19	1
Acenaphthylene	0.033	U	0.051	0.0091	ug/L		03/07/22 09:32	03/08/22 16:19	1
Anthracene	0.081	U	0.10	0.022	ug/L		03/07/22 09:32	03/08/22 16:19	1
Benzo[a]anthracene	0.033	U	0.051	0.014	ug/L		03/07/22 09:32	03/08/22 16:19	1
Benzo[a]pyrene	0.033	U	0.10	0.011	ug/L		03/07/22 09:32	03/08/22 16:19	1
Benzo[b]fluoranthene	0.033	U	0.051	0.011	ug/L		03/07/22 09:32	03/08/22 16:19	1
Benzo[g,h,i]perylene	0.033	U	0.051	0.012	ug/L		03/07/22 09:32	03/08/22 16:19	1
Benzo[k]fluoranthene	0.033	U	0.051	0.012	ug/L		03/07/22 09:32	03/08/22 16:19	1
Chrysene	0.033	U	0.10	0.016	ug/L		03/07/22 09:32	03/08/22 16:19	1
Dibenz(a,h)anthracene	0.033	U	0.10	0.026	ug/L		03/07/22 09:32	03/08/22 16:19	1
Fluoranthene	0.033	U	0.20	0.018	ug/L		03/07/22 09:32	03/08/22 16:19	1
Fluorene	0.033	U	0.10	0.017	ug/L		03/07/22 09:32	03/08/22 16:19	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.051	0.014	ug/L		03/07/22 09:32	03/08/22 16:19	1
Naphthalene	0.081	U M	0.10	0.032	ug/L		03/07/22 09:32	03/08/22 16:19	1
Phenanthrene	0.081	U	0.10	0.032	ug/L		03/07/22 09:32	03/08/22 16:19	1
Pyrene	0.081	U M	0.10	0.034	ug/L		03/07/22 09:32	03/08/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	47		40 - 140	03/07/22 09:32	03/08/22 16:19	1
Fluoranthene-d10 (Surr)	80		40 - 140	03/07/22 09:32	03/08/22 16:19	1
Terphenyl-d14	88		58 - 132	03/07/22 09:32	03/08/22 16:19	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.30	U Q	0.41	0.091	ug/L		03/07/22 09:32	03/07/22 18:47	1
1,2-Dichlorobenzene	0.15	U Q	0.41	0.051	ug/L		03/07/22 09:32	03/07/22 18:47	1
1,3-Dichlorobenzene	0.091	U Q	0.41	0.041	ug/L		03/07/22 09:32	03/07/22 18:47	1
1,4-Dichlorobenzene	0.091	U Q	0.41	0.041	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,4,5-Trichlorophenol	0.30	U	0.41	0.10	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,4,6-Trichlorophenol	0.30	U	0.61	0.10	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,4-Dichlorophenol	0.51	U	1.0	0.20	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,4-Dimethylphenol	0.51	U	4.1	0.16	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,4-Dinitrophenol	3.3	U	5.1	1.6	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/07/22 09:32	03/07/22 18:47	1
2,6-Dinitrotoluene	0.30	U	0.41	0.10	ug/L		03/07/22 09:32	03/07/22 18:47	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/07/22 09:32	03/07/22 18:47	1
2-Chlorophenol	0.15	U	1.0	0.051	ug/L		03/07/22 09:32	03/07/22 18:47	1
2-Nitrophenol	0.15	U	1.0	0.071	ug/L		03/07/22 09:32	03/07/22 18:47	1
3,3'-Dichlorobenzidine	0.61	U	1.0	0.26	ug/L		03/07/22 09:32	03/07/22 18:47	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.56	ug/L		03/07/22 09:32	03/07/22 18:47	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/07/22 09:32	03/07/22 18:47	1
4-Chloro-3-methylphenol	0.30	U	0.61	0.13	ug/L		03/07/22 09:32	03/07/22 18:47	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.051	ug/L		03/07/22 09:32	03/07/22 18:47	1
4-Nitrophenol	6.1	U	10	1.7	ug/L		03/07/22 09:32	03/07/22 18:47	1
Azobenzene	0.15	U M	2.0	0.061	ug/L		03/07/22 09:32	03/07/22 18:47	1
Bis(2-chloroethoxy)methane	0.15	U	0.61	0.051	ug/L		03/07/22 09:32	03/07/22 18:47	1
Bis(2-chloroethyl)ether	0.091	U	0.10	0.030	ug/L		03/07/22 09:32	03/07/22 18:47	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.75	ug/L		03/07/22 09:32	03/07/22 18:47	1

Eurofins Seattle

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

Client Sample ID: ERH2647 (RHMW06)

Lab Sample ID: 580-110890-1

Date Collected: 02/28/22 11:15

Matrix: Water

Date Received: 03/02/22 09:50

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	0.61	U	4.1	0.27	ug/L		03/07/22 09:32	03/07/22 18:47	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/07/22 09:32	03/07/22 18:47	1
Dimethyl phthalate	0.15	U	0.61	0.061	ug/L		03/07/22 09:32	03/07/22 18:47	1
Di-n-butyl phthalate	0.51	U	3.0	0.19	ug/L		03/07/22 09:32	03/07/22 18:47	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/07/22 09:32	03/07/22 18:47	1
Hexachlorobenzene	0.091	U	0.61	0.041	ug/L		03/07/22 09:32	03/07/22 18:47	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/07/22 09:32	03/07/22 18:47	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/07/22 09:32	03/07/22 18:47	1
Hexachloroethane	0.15	U Q	1.0	0.051	ug/L		03/07/22 09:32	03/07/22 18:47	1
Isophorone	0.30	U	0.41	0.10	ug/L		03/07/22 09:32	03/07/22 18:47	1
m+p-Cresol	0.30	U	0.61	0.10	ug/L		03/07/22 09:32	03/07/22 18:47	1
Nitrobenzene	0.091	U	1.0	0.041	ug/L		03/07/22 09:32	03/07/22 18:47	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/07/22 09:32	03/07/22 18:47	1
N-Nitrosodi-n-propylamine	0.091	U	0.41	0.061	ug/L		03/07/22 09:32	03/07/22 18:47	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.071	ug/L		03/07/22 09:32	03/07/22 18:47	1
o-Cresol	0.15	U	0.61	0.051	ug/L		03/07/22 09:32	03/07/22 18:47	1
Pentachlorophenol	1.0	U	10	0.52	ug/L		03/07/22 09:32	03/07/22 18:47	1
Phenol	0.61	U	1.0	0.37	ug/L		03/07/22 09:32	03/07/22 18:47	1
Pyrene	0.091	U	1.0	0.041	ug/L		03/07/22 09:32	03/07/22 18:47	1
Pyridine	3.3	U	10	1.1	ug/L		03/07/22 09:32	03/07/22 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		43 - 140	03/07/22 09:32	03/07/22 18:47	1
2-Fluorobiphenyl	48		44 - 119	03/07/22 09:32	03/07/22 18:47	1
2-Fluorophenol (Surr)	35		19 - 119	03/07/22 09:32	03/07/22 18:47	1
Nitrobenzene-d5 (Surr)	55		44 - 120	03/07/22 09:32	03/07/22 18:47	1
Phenol-d5 (Surr)	21		10 - 120	03/07/22 09:32	03/07/22 18:47	1
Terphenyl-d14	90		50 - 134	03/07/22 09:32	03/07/22 18:47	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.15	U Q	0.25	0.061	ug/L		03/07/22 09:32	03/22/22 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45	M	43 - 140	03/07/22 09:32	03/22/22 14:47	1
2-Fluorobiphenyl	55		44 - 119	03/07/22 09:32	03/22/22 14:47	1
2-Fluorophenol (Surr)	43		19 - 119	03/07/22 09:32	03/22/22 14:47	1
Nitrobenzene-d5 (Surr)	65		44 - 120	03/07/22 09:32	03/22/22 14:47	1
Phenol-d5 (Surr)	23		10 - 120	03/07/22 09:32	03/22/22 14:47	1
Terphenyl-d14	87		50 - 134	03/07/22 09:32	03/22/22 14:47	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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

Lab Sample ID: MB 580-383033/1-A
Matrix: Water
Analysis Batch: 383057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383033

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.30	U	0.40	0.090	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
4-Nitrophenol	6.0	U	10	1.7	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Azobenzene	0.15	U	2.0	0.060	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Bis(2-chloroethyl)ether	0.090	U	0.10	0.030	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Isophorone	0.30	U	0.40	0.10	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
m+p-Cresol	0.30	U	0.60	0.10	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
N-Nitrosodi-n-propylamine	0.090	U	0.40	0.060	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
o-Cresol	0.15	U	0.60	0.050	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Pentachlorophenol	1.0	U	10	0.51	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Phenol	0.60	U	1.0	0.36	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Pyrene	0.090	U	1.0	0.040	ug/L	-	03/07/22 09:32	03/07/22 17:38	1
Pyridine	3.2	U	10	1.1	ug/L	-	03/07/22 09:32	03/07/22 17:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		43 - 140	03/07/22 09:32	03/07/22 17:38	1
2-Fluorobiphenyl	64		44 - 119	03/07/22 09:32	03/07/22 17:38	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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

Lab Sample ID: MB 580-383033/1-A
Matrix: Water
Analysis Batch: 383057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383033

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	59	M	19 - 119	03/07/22 09:32	03/07/22 17:38	1
Nitrobenzene-d5 (Surr)	70		44 - 120	03/07/22 09:32	03/07/22 17:38	1
Phenol-d5 (Surr)	39	M	10 - 120	03/07/22 09:32	03/07/22 17:38	1
Terphenyl-d14	103		50 - 134	03/07/22 09:32	03/07/22 17:38	1

Lab Sample ID: LCS 580-383033/2-A
Matrix: Water
Analysis Batch: 383057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.00	1.35		ug/L		67	29 - 116
1,2-Dichlorobenzene	2.00	1.45		ug/L		73	32 - 111
1,3-Dichlorobenzene	2.00	1.57		ug/L		78	28 - 110
1,4-Dichlorobenzene	2.00	1.47		ug/L		74	29 - 112
2,4,5-Trichlorophenol	2.00	1.61		ug/L		80	53 - 123
2,4,6-Trichlorophenol	2.00	1.63		ug/L		82	50 - 125
2,4-Dichlorophenol	2.00	1.50		ug/L		75	47 - 121
2,4-Dimethylphenol	2.00	1.75	J	ug/L		88	31 - 124
2,4-Dinitrophenol	4.00	2.60	J M	ug/L		65	23 - 143
2,4-Dinitrotoluene	2.00	1.84		ug/L		92	57 - 128
2,6-Dinitrotoluene	2.00	1.66		ug/L		83	57 - 124
2-Chloronaphthalene	2.00	1.45		ug/L		73	40 - 116
2-Chlorophenol	2.00	1.68		ug/L		84	38 - 117
2-Nitrophenol	2.00	1.60		ug/L		80	47 - 123
3,3'-Dichlorobenzidine	4.00	3.89		ug/L		97	27 - 129
4,6-Dinitro-2-methylphenol	4.00	2.82		ug/L		70	44 - 137
4-Bromophenyl phenyl ether	2.00	1.75		ug/L		87	55 - 124
4-Chloro-3-methylphenol	2.00	1.64		ug/L		82	52 - 119
4-Chlorophenyl phenyl ether	2.00	1.67		ug/L		83	53 - 121
4-Nitrophenol	4.00	2.83	J	ug/L		71	35 - 145
Azobenzene	2.00	1.65	J	ug/L		83	61 - 116
Bis(2-chloroethoxy)methane	2.00	1.64		ug/L		82	48 - 120
Bis(2-chloroethyl)ether	2.00	1.57		ug/L		78	43 - 118
Bis(2-ethylhexyl) phthalate	2.00	2.18	J	ug/L		109	55 - 135
Butyl benzyl phthalate	2.00	1.87	J	ug/L		94	53 - 134
Diethyl phthalate	2.00	1.84		ug/L		92	56 - 125
Dimethyl phthalate	2.00	1.91		ug/L		95	45 - 127
Di-n-butyl phthalate	2.00	1.84	J	ug/L		92	59 - 127
Di-n-octyl phthalate	2.00	1.97		ug/L		98	51 - 140
Hexachlorobenzene	2.00	1.88		ug/L		94	53 - 125
Hexachlorobutadiene	2.00	1.39		ug/L		69	22 - 124
Hexachlorocyclopentadiene	2.00	1.09		ug/L		55	20 - 125
Hexachloroethane	2.00	1.43		ug/L		72	21 - 115
Isophorone	2.00	1.72		ug/L		86	42 - 124
m+p-Cresol	2.00	1.36		ug/L		68	29 - 110
Nitrobenzene	2.00	1.65		ug/L		83	45 - 121
N-Nitrosodimethylamine	2.00	1.12	J	ug/L		56	45 - 125
N-Nitrosodi-n-propylamine	2.00	1.63		ug/L		81	49 - 119

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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

Lab Sample ID: LCS 580-383033/2-A
Matrix: Water
Analysis Batch: 383057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiphenylamine	2.00	1.84		ug/L		92	51 - 123
o-Cresol	2.00	1.58		ug/L		79	30 - 117
Pentachlorophenol	4.00	2.73	J	ug/L		68	35 - 138
Phenol	2.00	0.911	J M	ug/L		46	13 - 120
Pyrene	2.00	1.68		ug/L		84	57 - 126
Pyridine	4.00	3.2	U	ug/L		26	20 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	100		43 - 140
2-Fluorobiphenyl	67		44 - 119
2-Fluorophenol (Surr)	55	M	19 - 119
Nitrobenzene-d5 (Surr)	72		44 - 120
Phenol-d5 (Surr)	33		10 - 120
Terphenyl-d14	104		50 - 134

Lab Sample ID: LCSD 580-383033/3-A
Matrix: Water
Analysis Batch: 383057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	0.944	Q	ug/L		47	29 - 116	35	20
1,2-Dichlorobenzene	2.00	0.936	Q	ug/L		47	32 - 111	43	20
1,3-Dichlorobenzene	2.00	0.924	Q	ug/L		46	28 - 110	52	20
1,4-Dichlorobenzene	2.00	0.881	Q	ug/L		44	29 - 112	50	20
2,4,5-Trichlorophenol	2.00	1.35		ug/L		67	53 - 123	18	20
2,4,6-Trichlorophenol	2.00	1.46		ug/L		73	50 - 125	11	20
2,4-Dichlorophenol	2.00	1.42		ug/L		71	47 - 121	5	20
2,4-Dimethylphenol	2.00	1.43	J	ug/L		72	31 - 124	20	20
2,4-Dinitrophenol	4.00	2.47	J M	ug/L		62	23 - 143	5	20
2,4-Dinitrotoluene	2.00	1.76		ug/L		88	57 - 128	5	20
2,6-Dinitrotoluene	2.00	1.49		ug/L		75	57 - 124	10	20
2-Chloronaphthalene	2.00	1.20		ug/L		60	40 - 116	19	20
2-Chlorophenol	2.00	1.46		ug/L		73	38 - 117	14	20
2-Nitrophenol	2.00	1.45		ug/L		72	47 - 123	10	20
3,3'-Dichlorobenzidine	4.00	4.22		ug/L		105	27 - 129	8	20
4,6-Dinitro-2-methylphenol	4.00	2.99		ug/L		75	44 - 137	6	20
4-Bromophenyl phenyl ether	2.00	1.80		ug/L		90	55 - 124	3	20
4-Chloro-3-methylphenol	2.00	1.53		ug/L		77	52 - 119	6	20
4-Chlorophenyl phenyl ether	2.00	1.38		ug/L		69	53 - 121	19	20
4-Nitrophenol	4.00	2.94	J	ug/L		73	35 - 145	4	20
Azobenzene	2.00	1.61	J	ug/L		80	61 - 116	3	20
Bis(2-chloroethoxy)methane	2.00	1.37		ug/L		68	48 - 120	18	20
Bis(2-chloroethyl)ether	2.00	1.28		ug/L		64	43 - 118	20	20
Bis(2-ethylhexyl) phthalate	2.00	2.33	J	ug/L		116	55 - 135	7	20
Butyl benzyl phthalate	2.00	2.07	J	ug/L		103	53 - 134	10	20
Diethyl phthalate	2.00	1.80		ug/L		90	56 - 125	2	20
Dimethyl phthalate	2.00	1.70		ug/L		85	45 - 127	12	20
Di-n-butyl phthalate	2.00	2.04	J	ug/L		102	59 - 127	10	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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

Lab Sample ID: LCSD 580-383033/3-A
Matrix: Water
Analysis Batch: 383057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate	2.00	2.07		ug/L		104	51 - 140	5	20
Hexachlorobenzene	2.00	1.92		ug/L		96	53 - 125	2	20
Hexachlorobutadiene	2.00	0.741	J Q	ug/L		37	22 - 124	61	20
Hexachlorocyclopentadiene	2.00	0.575	J Q	ug/L		29	20 - 125	62	20
Hexachloroethane	2.00	0.740	J Q	ug/L		37	21 - 115	64	20
Isophorone	2.00	1.41		ug/L		70	42 - 124	20	20
m+p-Cresol	2.00	1.19		ug/L		59	29 - 110	13	20
Nitrobenzene	2.00	1.39		ug/L		69	45 - 121	18	20
N-Nitrosodimethylamine	2.00	1.01	J	ug/L		50	45 - 125	11	20
N-Nitrosodi-n-propylamine	2.00	1.38		ug/L		69	49 - 119	16	20
N-Nitrosodiphenylamine	2.00	1.86		ug/L		93	51 - 123	1	20
o-Cresol	2.00	1.29		ug/L		65	30 - 117	20	20
Pentachlorophenol	4.00	2.79	J	ug/L		70	35 - 138	2	20
Phenol	2.00	0.819	J M	ug/L		41	13 - 120	11	20
Pyrene	2.00	1.75		ug/L		88	57 - 126	4	20
Pyridine	4.00	1.15	J	ug/L		29	20 - 125	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	101		43 - 140
2-Fluorobiphenyl	64		44 - 119
2-Fluorophenol (Surr)	46		19 - 119
Nitrobenzene-d5 (Surr)	63		44 - 120
Phenol-d5 (Surr)	37	M	10 - 120
Terphenyl-d14	115		50 - 134

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

Lab Sample ID: MB 580-383033/1-A
Matrix: Water
Analysis Batch: 383161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383033

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/07/22 09:32	03/08/22 12:09	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/07/22 09:32	03/08/22 12:09	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/07/22 09:32	03/08/22 12:09	1
Acenaphthylene	0.032	U	0.050	0.0090	ug/L		03/07/22 09:32	03/08/22 12:09	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/07/22 09:32	03/08/22 12:09	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/07/22 09:32	03/08/22 12:09	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/07/22 09:32	03/08/22 12:09	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/07/22 09:32	03/08/22 12:09	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/07/22 09:32	03/08/22 12:09	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/07/22 09:32	03/08/22 12:09	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/07/22 09:32	03/08/22 12:09	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/07/22 09:32	03/08/22 12:09	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/07/22 09:32	03/08/22 12:09	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/07/22 09:32	03/08/22 12:09	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/07/22 09:32	03/08/22 12:09	1
Naphthalene	0.080	U	0.10	0.031	ug/L		03/07/22 09:32	03/08/22 12:09	1
Phenanthrene	0.080	U	0.10	0.031	ug/L		03/07/22 09:32	03/08/22 12:09	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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

Lab Sample ID: MB 580-383033/1-A
Matrix: Water
Analysis Batch: 383161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383033

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.080	U	0.10	0.033	ug/L		03/07/22 09:32	03/08/22 12:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	61	M	40 - 140	03/07/22 09:32	03/08/22 12:09	1
Fluoranthene-d10 (Surr)	94		40 - 140	03/07/22 09:32	03/08/22 12:09	1
Terphenyl-d14	103		58 - 132	03/07/22 09:32	03/08/22 12:09	1

Lab Sample ID: LCS 580-383033/2-A
Matrix: Water
Analysis Batch: 383161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	2.00	1.36		ug/L		68	41 - 115
2-Methylnaphthalene	2.00	1.33		ug/L		66	39 - 114
Acenaphthene	2.00	1.37		ug/L		68	48 - 114
Acenaphthylene	2.00	1.31		ug/L		65	35 - 121
Anthracene	2.00	1.68		ug/L		84	53 - 119
Benzo[a]anthracene	2.00	1.63		ug/L		82	59 - 120
Benzo[a]pyrene	2.00	1.66		ug/L		83	53 - 120
Benzo[b]fluoranthene	2.00	1.58		ug/L		79	53 - 126
Benzo[g,h,i]perylene	2.00	1.86		ug/L		93	44 - 128
Benzo[k]fluoranthene	2.00	1.99		ug/L		99	54 - 125
Chrysene	2.00	1.74		ug/L		87	57 - 120
Dibenz(a,h)anthracene	2.00	1.79	M	ug/L		90	44 - 131
Fluoranthene	2.00	1.74		ug/L		87	58 - 120
Fluorene	2.00	1.52		ug/L		76	50 - 118
Indeno[1,2,3-cd]pyrene	2.00	1.48	M	ug/L		74	48 - 130
Naphthalene	2.00	1.40		ug/L		70	43 - 114
Phenanthrene	2.00	1.55		ug/L		78	53 - 115
Pyrene	2.00	1.72		ug/L		86	53 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-methylnaphthalene-d10	65		40 - 140
Fluoranthene-d10 (Surr)	86		40 - 140
Terphenyl-d14	95		58 - 132

Lab Sample ID: LCSD 580-383033/3-A
Matrix: Water
Analysis Batch: 383161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	2.00	1.11		ug/L		56	41 - 115	20	20
2-Methylnaphthalene	2.00	1.07	Q	ug/L		54	39 - 114	22	20
Acenaphthene	2.00	1.25		ug/L		62	48 - 114	9	20
Acenaphthylene	2.00	1.19		ug/L		59	35 - 121	10	20
Anthracene	2.00	1.65		ug/L		82	53 - 119	2	20
Benzo[a]anthracene	2.00	1.69		ug/L		85	59 - 120	4	20
Benzo[a]pyrene	2.00	1.74		ug/L		87	53 - 120	5	20

Eurofins Seattle

QC Sample Results

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

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

Lab Sample ID: LCSD 580-383033/3-A
Matrix: Water
Analysis Batch: 383161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Benzo[b]fluoranthene	2.00	1.75		ug/L		87	53 - 126	10	20	
Benzo[g,h,i]perylene	2.00	1.98		ug/L		99	44 - 128	6	20	
Benzo[k]fluoranthene	2.00	2.10		ug/L		105	54 - 125	6	20	
Chrysene	2.00	1.80		ug/L		90	57 - 120	3	20	
Dibenz(a,h)anthracene	2.00	1.90	M	ug/L		95	44 - 131	6	20	
Fluoranthene	2.00	1.77		ug/L		88	58 - 120	2	20	
Fluorene	2.00	1.40		ug/L		70	50 - 118	8	20	
Indeno[1,2,3-cd]pyrene	2.00	1.72	M	ug/L		86	48 - 130	15	20	
Naphthalene	2.00	1.18		ug/L		59	43 - 114	17	20	
Phenanthrene	2.00	1.51		ug/L		75	53 - 115	3	20	
Pyrene	2.00	1.75		ug/L		88	53 - 121	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-methylnaphthalene-d10	61	M	40 - 140
Fluoranthene-d10 (Surr)	86		40 - 140
Terphenyl-d14	94		58 - 132

Lab Chronicle

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

Client Sample ID: ERH2647 (RHMW06)

Lab Sample ID: 580-110890-1

Date Collected: 02/28/22 11:15

Matrix: Water

Date Received: 03/02/22 09:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3510C			383033	03/07/22 09:32	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383057	03/07/22 18:47	W1T	FGS SEA
Total/NA	Prep	3510C	RA		383033	03/07/22 09:32	JJY	FGS SEA
Total/NA	Analysis	8270E	RA	1	384627	03/22/22 14:47	ADB	FGS SEA
Total/NA	Prep	3510C			383033	03/07/22 09:32	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383161	03/08/22 16:19	E1L	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 GW

Job ID: 580-110890-1

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2236	01-19-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Sample Summary

Client: AECOM
Project/Site: Red Hill GW

Job ID: 580-110890-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-110890-1	ERH2647 (RHMW06)	Water	02/28/22 11:15	03/02/22 09:50

1

2

3

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5

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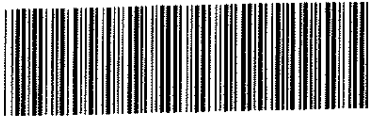
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Chain of Custody Record

580-110890 Chain of Custody

Client Contact: Alethea Ramos (alternate: Margie Pascua)	Sampler: <i>aw C.wemack</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEX	COC No: 02262022-04
Company: AECOM	Phone: (916) 769-9323	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1

Address: 1001 Bishop St. Suite 1600	Due Date Requested: see subcontract	Analysis Requested Perform MS/MSD (Yes or No) SVOCs (oil suite) by 8270D (Nap, 1,2-Methylnep, PAH) by 8270DSIM	Total Number of containers	Job #:	
City: Honolulu	TAT Requested (days): RUSH /ASAP			Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
State, Zip: Hawaii 96813	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				Other:
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)	PO #:				
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)	WO #:				
Project Name: CV18F0126	Project #: 60571032, 02.46.01				
Site: RH	SSOW#:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOCs (oil suite) by 8270D (Nap, 1,2-Methylnep, PAH) by 8270DSIM	Total Number of containers	Special Instructions/Note:
ERH2647 (RHMW06)	02/28/22	1115	G	W	N	N	X	2	
<i>aw</i> 2/28/22									

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
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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>C.wemack</i>	Date/Time: 2/28/22 / 1515	Company: AECOM	Received by: FEDEX
Relinquished by:	Date/Time:	Company:	Date/Time: 2/28/22 / 1515
Relinquished by:	Date/Time:	Company:	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Date/Time: 3/12/22 950
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: IR 9 -0.6/-1.1
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Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-110890-1

Login Number: 110890

List Source: Eurofins Seattle

List Number: 1

Creator: Greene, Ashton R

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.	True	
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	