

ANALYTICAL REPORT

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Laboratory Job ID: 580-111736-1
Client Project/Site: Red Hill NOI GW

For:
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Authorized for release by:
4/4/2022 10:29:12 PM

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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: Red Hill NOI GW

Job ID: 580-111736-1

Job ID: 580-111736-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE Client: AECOM Project: Red Hill NOI GW Report Number: 580-111736-1

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

Four samples were received on 3/23/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.2° C and 0.9° 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)

Samples ERH2857 (RHMW15-05) (580-111736-1), ERH2863 (RHMW09) (580-111736-2), ERH2866 (RHMW19) (580-111736-3) and ERH2867 (RHMW19EB) (580-111736-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270E. The samples were prepared on 03/27/2022 and analyzed on 03/28/2022.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-385291 and analytical batch 580-385366 recovered outside control limits for multiple analytes. Recoveries of the LCS and LCSD are within control limits and associated client samples are non-detect for these analytes; therefore, the data has been reported.

The continuing calibration verification (CCV) associated with batch 580-385366 recovered above the upper control limit for bis (2-chloroisopropyl) ether, Bis(2-ethylhexyl)phthalate and Diethyl phthalate. 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 580-385366/3).

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-385366 was outside criteria for 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.

CCVIS 580-385366/3 recovered outside control limits, low-biased, for Pentachlorophenol. This analyte has been identified as a poor performing analyte; re-extraction/re-analysis was not performed. Results for this analyte have been qualified and reported.

Case Narrative

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Job ID: 580-111736-1 (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)

Samples ERH2857 (RHMW15-05) (580-111736-1), ERH2863 (RHMW09) (580-111736-2), ERH2866 (RHMW19) (580-111736-3) and ERH2867 (RHMW19EB) (580-111736-4) were analyzed for semivolatile organic compounds (GC-MS - SIM) in accordance with 8270E SIM. The samples were prepared on 03/27/2022 and analyzed on 04/01/2022.

No 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 NOI GW

Job ID: 580-111736-1

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 NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2857 (RHMW15-05)

Lab Sample ID: 580-111736-1

Date Collected: 03/21/22 09:10

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/27/22 10:47	04/01/22 18:16	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/27/22 10:47	04/01/22 18:16	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/27/22 10:47	04/01/22 18:16	1
Acenaphthylene	0.032	U	0.050	0.0090	ug/L		03/27/22 10:47	04/01/22 18:16	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/27/22 10:47	04/01/22 18:16	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 18:16	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/27/22 10:47	04/01/22 18:16	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/27/22 10:47	04/01/22 18:16	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 18:16	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 18:16	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/27/22 10:47	04/01/22 18:16	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/27/22 10:47	04/01/22 18:16	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/27/22 10:47	04/01/22 18:16	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/27/22 10:47	04/01/22 18:16	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 18:16	1
Naphthalene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 18:16	1
Phenanthrene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 18:16	1
Pyrene	0.080	U	0.10	0.033	ug/L		03/27/22 10:47	04/01/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	45		40 - 140	03/27/22 10:47	04/01/22 18:16	1
Fluoranthene-d10 (Surr)	74		40 - 140	03/27/22 10:47	04/01/22 18:16	1
Terphenyl-d14	81		58 - 132	03/27/22 10:47	04/01/22 18:16	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	0.40	0.090	ug/L		03/27/22 10:47	03/28/22 15:37	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/27/22 10:47	03/28/22 15:37	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 15:37	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,4-Dimethylphenol	0.50	U Q	4.0	0.16	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/27/22 10:47	03/28/22 15:37	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 15:37	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 15:37	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 15:37	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 15:37	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/27/22 10:47	03/28/22 15:37	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/27/22 10:47	03/28/22 15:37	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 15:37	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L		03/27/22 10:47	03/28/22 15:37	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 15:37	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/27/22 10:47	03/28/22 15:37	1
Azobenzene	0.15	U	2.0	0.060	ug/L		03/27/22 10:47	03/28/22 15:37	1
bis (2-chloroisopropyl) ether	0.15	U Q M	0.25	0.060	ug/L		03/27/22 10:47	03/28/22 15:37	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 15:37	1
Bis(2-chloroethyl)ether	0.090	U Q	0.10	0.030	ug/L		03/27/22 10:47	03/28/22 15:37	1

Eurofins Seattle

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2857 (RHMW15-05)

Lab Sample ID: 580-111736-1

Date Collected: 03/21/22 09:10

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.6	U Q	3.0	0.74	ug/L		03/27/22 10:47	03/28/22 15:37	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/27/22 10:47	03/28/22 15:37	1
Diethyl phthalate	0.30	U Q	1.0	0.15	ug/L		03/27/22 10:47	03/28/22 15:37	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 15:37	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/27/22 10:47	03/28/22 15:37	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/27/22 10:47	03/28/22 15:37	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/27/22 10:47	03/28/22 15:37	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/27/22 10:47	03/28/22 15:37	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/27/22 10:47	03/28/22 15:37	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 15:37	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 15:37	1
m+p-Cresol	0.30	U Q	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 15:37	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 15:37	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/27/22 10:47	03/28/22 15:37	1
N-Nitrosodi-n-propylamine	0.090	U Q	0.40	0.060	ug/L		03/27/22 10:47	03/28/22 15:37	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 15:37	1
o-Cresol	0.15	U Q	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 15:37	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/27/22 10:47	03/28/22 15:37	1
Phenol	0.60	U	1.0	0.36	ug/L		03/27/22 10:47	03/28/22 15:37	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 15:37	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/27/22 10:47	03/28/22 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		43 - 140	03/27/22 10:47	03/28/22 15:37	1
2-Fluorobiphenyl	54		44 - 119	03/27/22 10:47	03/28/22 15:37	1
2-Fluorophenol (Surr)	29		19 - 119	03/27/22 10:47	03/28/22 15:37	1
Nitrobenzene-d5 (Surr)	55		44 - 120	03/27/22 10:47	03/28/22 15:37	1
Phenol-d5 (Surr)	14		10 - 120	03/27/22 10:47	03/28/22 15:37	1
Terphenyl-d14	86		50 - 134	03/27/22 10:47	03/28/22 15:37	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2863 (RHMW09)

Lab Sample ID: 580-111736-2

Date Collected: 03/21/22 11:05

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/27/22 10:47	04/01/22 18:36	1
2-Methylnaphthalene	0.081	U	0.20	0.040	ug/L		03/27/22 10:47	04/01/22 18:36	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/27/22 10:47	04/01/22 18:36	1
Acenaphthylene	0.032	U	0.051	0.0091	ug/L		03/27/22 10:47	04/01/22 18:36	1
Anthracene	0.081	U	0.10	0.022	ug/L		03/27/22 10:47	04/01/22 18:36	1
Benzo[a]anthracene	0.032	U	0.051	0.014	ug/L		03/27/22 10:47	04/01/22 18:36	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/27/22 10:47	04/01/22 18:36	1
Benzo[b]fluoranthene	0.032	U	0.051	0.011	ug/L		03/27/22 10:47	04/01/22 18:36	1
Benzo[g,h,i]perylene	0.032	U	0.051	0.012	ug/L		03/27/22 10:47	04/01/22 18:36	1
Benzo[k]fluoranthene	0.032	U	0.051	0.012	ug/L		03/27/22 10:47	04/01/22 18:36	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/27/22 10:47	04/01/22 18:36	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/27/22 10:47	04/01/22 18:36	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/27/22 10:47	04/01/22 18:36	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/27/22 10:47	04/01/22 18:36	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.051	0.014	ug/L		03/27/22 10:47	04/01/22 18:36	1
Naphthalene	0.081	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 18:36	1
Phenanthrene	0.081	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 18:36	1
Pyrene	0.081	U	0.10	0.033	ug/L		03/27/22 10:47	04/01/22 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	53		40 - 140	03/27/22 10:47	04/01/22 18:36	1
Fluoranthene-d10 (Surr)	76		40 - 140	03/27/22 10:47	04/01/22 18:36	1
Terphenyl-d14	81		58 - 132	03/27/22 10:47	04/01/22 18:36	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	0.41	0.091	ug/L		03/27/22 10:47	03/28/22 16:01	1
1,2-Dichlorobenzene	0.15	U	0.41	0.051	ug/L		03/27/22 10:47	03/28/22 16:01	1
1,3-Dichlorobenzene	0.091	U	0.41	0.041	ug/L		03/27/22 10:47	03/28/22 16:01	1
1,4-Dichlorobenzene	0.091	U	0.41	0.041	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,4,5-Trichlorophenol	0.30	U	0.41	0.10	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,4,6-Trichlorophenol	0.30	U	0.61	0.10	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,4-Dichlorophenol	0.51	U	1.0	0.20	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,4-Dimethylphenol	0.51	U Q	4.1	0.16	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,4-Dinitrophenol	3.2	U	5.1	1.6	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/27/22 10:47	03/28/22 16:01	1
2,6-Dinitrotoluene	0.30	U	0.41	0.10	ug/L		03/27/22 10:47	03/28/22 16:01	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/27/22 10:47	03/28/22 16:01	1
2-Chlorophenol	0.15	U Q	1.0	0.051	ug/L		03/27/22 10:47	03/28/22 16:01	1
2-Nitrophenol	0.15	U	1.0	0.071	ug/L		03/27/22 10:47	03/28/22 16:01	1
3,3'-Dichlorobenzidine	0.61	U	1.0	0.26	ug/L		03/27/22 10:47	03/28/22 16:01	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.56	ug/L		03/27/22 10:47	03/28/22 16:01	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/27/22 10:47	03/28/22 16:01	1
4-Chloro-3-methylphenol	0.30	U	0.61	0.13	ug/L		03/27/22 10:47	03/28/22 16:01	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.051	ug/L		03/27/22 10:47	03/28/22 16:01	1
4-Nitrophenol	6.1	U	10	1.7	ug/L		03/27/22 10:47	03/28/22 16:01	1
Azobenzene	0.15	U	2.0	0.061	ug/L		03/27/22 10:47	03/28/22 16:01	1
bis (2-chloroisopropyl) ether	0.15	U Q M	0.25	0.061	ug/L		03/27/22 10:47	03/28/22 16:01	1
Bis(2-chloroethoxy)methane	0.15	U	0.61	0.051	ug/L		03/27/22 10:47	03/28/22 16:01	1
Bis(2-chloroethyl)ether	0.091	U Q	0.10	0.030	ug/L		03/27/22 10:47	03/28/22 16:01	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2863 (RHMW09)

Lab Sample ID: 580-111736-2

Date Collected: 03/21/22 11:05

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.6	U Q	3.0	0.75	ug/L		03/27/22 10:47	03/28/22 16:01	1
Butyl benzyl phthalate	0.61	U	4.1	0.27	ug/L		03/27/22 10:47	03/28/22 16:01	1
Diethyl phthalate	0.30	U Q	1.0	0.15	ug/L		03/27/22 10:47	03/28/22 16:01	1
Dimethyl phthalate	0.15	U	0.61	0.061	ug/L		03/27/22 10:47	03/28/22 16:01	1
Di-n-butyl phthalate	0.51	U	3.0	0.19	ug/L		03/27/22 10:47	03/28/22 16:01	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/27/22 10:47	03/28/22 16:01	1
Hexachlorobenzene	0.091	U	0.61	0.041	ug/L		03/27/22 10:47	03/28/22 16:01	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/27/22 10:47	03/28/22 16:01	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/27/22 10:47	03/28/22 16:01	1
Hexachloroethane	0.15	U	1.0	0.051	ug/L		03/27/22 10:47	03/28/22 16:01	1
Isophorone	0.30	U	0.41	0.10	ug/L		03/27/22 10:47	03/28/22 16:01	1
m+p-Cresol	0.30	U Q	0.61	0.10	ug/L		03/27/22 10:47	03/28/22 16:01	1
Nitrobenzene	0.091	U	1.0	0.041	ug/L		03/27/22 10:47	03/28/22 16:01	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/27/22 10:47	03/28/22 16:01	1
N-Nitrosodi-n-propylamine	0.091	U Q	0.41	0.061	ug/L		03/27/22 10:47	03/28/22 16:01	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.071	ug/L		03/27/22 10:47	03/28/22 16:01	1
o-Cresol	0.15	U Q	0.61	0.051	ug/L		03/27/22 10:47	03/28/22 16:01	1
Pentachlorophenol	1.0	U Q	10	0.52	ug/L		03/27/22 10:47	03/28/22 16:01	1
Phenol	0.61	U M	1.0	0.36	ug/L		03/27/22 10:47	03/28/22 16:01	1
Pyrene	0.091	U	1.0	0.041	ug/L		03/27/22 10:47	03/28/22 16:01	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/27/22 10:47	03/28/22 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		43 - 140	03/27/22 10:47	03/28/22 16:01	1
2-Fluorobiphenyl	55		44 - 119	03/27/22 10:47	03/28/22 16:01	1
2-Fluorophenol (Surr)	31		19 - 119	03/27/22 10:47	03/28/22 16:01	1
Nitrobenzene-d5 (Surr)	53		44 - 120	03/27/22 10:47	03/28/22 16:01	1
Phenol-d5 (Surr)	16		10 - 120	03/27/22 10:47	03/28/22 16:01	1
Terphenyl-d14	85		50 - 134	03/27/22 10:47	03/28/22 16:01	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2866 (RHMW19)

Lab Sample ID: 580-111736-3

Date Collected: 03/21/22 08:50

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/27/22 10:47	04/01/22 18:55	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/27/22 10:47	04/01/22 18:55	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/27/22 10:47	04/01/22 18:55	1
Acenaphthylene	0.032	U	0.050	0.0090	ug/L		03/27/22 10:47	04/01/22 18:55	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/27/22 10:47	04/01/22 18:55	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 18:55	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/27/22 10:47	04/01/22 18:55	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/27/22 10:47	04/01/22 18:55	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 18:55	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 18:55	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/27/22 10:47	04/01/22 18:55	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/27/22 10:47	04/01/22 18:55	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/27/22 10:47	04/01/22 18:55	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/27/22 10:47	04/01/22 18:55	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 18:55	1
Naphthalene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 18:55	1
Phenanthrene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 18:55	1
Pyrene	0.080	U	0.10	0.033	ug/L		03/27/22 10:47	04/01/22 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	56		40 - 140	03/27/22 10:47	04/01/22 18:55	1
Fluoranthene-d10 (Surr)	73		40 - 140	03/27/22 10:47	04/01/22 18:55	1
Terphenyl-d14	77		58 - 132	03/27/22 10:47	04/01/22 18:55	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	0.40	0.090	ug/L		03/27/22 10:47	03/28/22 16:25	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/27/22 10:47	03/28/22 16:25	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 16:25	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,4-Dimethylphenol	0.50	U Q	4.0	0.16	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/27/22 10:47	03/28/22 16:25	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 16:25	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 16:25	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 16:25	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 16:25	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/27/22 10:47	03/28/22 16:25	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/27/22 10:47	03/28/22 16:25	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 16:25	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/27/22 10:47	03/28/22 16:25	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 16:25	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/27/22 10:47	03/28/22 16:25	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/27/22 10:47	03/28/22 16:25	1
bis (2-chloroisopropyl) ether	0.15	U Q M	0.25	0.060	ug/L		03/27/22 10:47	03/28/22 16:25	1
Bis(2-chloroethoxy)methane	0.15	U M	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 16:25	1
Bis(2-chloroethyl)ether	0.090	U Q	0.10	0.030	ug/L		03/27/22 10:47	03/28/22 16:25	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2866 (RHMW19)

Lab Sample ID: 580-111736-3

Date Collected: 03/21/22 08:50

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.6	U Q	3.0	0.74	ug/L		03/27/22 10:47	03/28/22 16:25	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/27/22 10:47	03/28/22 16:25	1
Diethyl phthalate	0.30	U Q	1.0	0.15	ug/L		03/27/22 10:47	03/28/22 16:25	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 16:25	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/27/22 10:47	03/28/22 16:25	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/27/22 10:47	03/28/22 16:25	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/27/22 10:47	03/28/22 16:25	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/27/22 10:47	03/28/22 16:25	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/27/22 10:47	03/28/22 16:25	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 16:25	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 16:25	1
m+p-Cresol	0.30	U Q	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 16:25	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 16:25	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/27/22 10:47	03/28/22 16:25	1
N-Nitrosodi-n-propylamine	0.090	U Q	0.40	0.060	ug/L		03/27/22 10:47	03/28/22 16:25	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 16:25	1
o-Cresol	0.15	U Q	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 16:25	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/27/22 10:47	03/28/22 16:25	1
Phenol	0.60	U	1.0	0.36	ug/L		03/27/22 10:47	03/28/22 16:25	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 16:25	1
Pyridine	3.2	U Q	10	1.0	ug/L		03/27/22 10:47	03/28/22 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		43 - 140	03/27/22 10:47	03/28/22 16:25	1
2-Fluorobiphenyl	61		44 - 119	03/27/22 10:47	03/28/22 16:25	1
2-Fluorophenol (Surr)	32		19 - 119	03/27/22 10:47	03/28/22 16:25	1
Nitrobenzene-d5 (Surr)	58		44 - 120	03/27/22 10:47	03/28/22 16:25	1
Phenol-d5 (Surr)	16		10 - 120	03/27/22 10:47	03/28/22 16:25	1
Terphenyl-d14	76		50 - 134	03/27/22 10:47	03/28/22 16:25	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2867 (RHMW19EB)

Lab Sample ID: 580-111736-4

Date Collected: 03/21/22 10:20

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U M	0.10	0.019	ug/L		03/27/22 10:47	04/01/22 19:14	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/27/22 10:47	04/01/22 19:14	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/27/22 10:47	04/01/22 19:14	1
Acenaphthylene	0.032	U M	0.050	0.0090	ug/L		03/27/22 10:47	04/01/22 19:14	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/27/22 10:47	04/01/22 19:14	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 19:14	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/27/22 10:47	04/01/22 19:14	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/27/22 10:47	04/01/22 19:14	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 19:14	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 19:14	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/27/22 10:47	04/01/22 19:14	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/27/22 10:47	04/01/22 19:14	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/27/22 10:47	04/01/22 19:14	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/27/22 10:47	04/01/22 19:14	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 19:14	1
Naphthalene	0.080	U M	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 19:14	1
Phenanthrene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 19:14	1
Pyrene	0.080	U	0.10	0.033	ug/L		03/27/22 10:47	04/01/22 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	55		40 - 140	03/27/22 10:47	04/01/22 19:14	1
Fluoranthene-d10 (Surr)	76		40 - 140	03/27/22 10:47	04/01/22 19:14	1
Terphenyl-d14	81		58 - 132	03/27/22 10:47	04/01/22 19:14	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	0.40	0.090	ug/L		03/27/22 10:47	03/28/22 16:49	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/27/22 10:47	03/28/22 16:49	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 16:49	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,4-Dimethylphenol	0.50	U Q	4.0	0.16	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/27/22 10:47	03/28/22 16:49	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 16:49	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 16:49	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 16:49	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 16:49	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/27/22 10:47	03/28/22 16:49	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/27/22 10:47	03/28/22 16:49	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 16:49	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/27/22 10:47	03/28/22 16:49	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 16:49	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/27/22 10:47	03/28/22 16:49	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/27/22 10:47	03/28/22 16:49	1
bis (2-chloroisopropyl) ether	0.15	U Q M	0.25	0.060	ug/L		03/27/22 10:47	03/28/22 16:49	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 16:49	1
Bis(2-chloroethyl)ether	0.090	U Q	0.10	0.030	ug/L		03/27/22 10:47	03/28/22 16:49	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2867 (RHMW19EB)

Lab Sample ID: 580-111736-4

Date Collected: 03/21/22 10:20

Matrix: Water

Date Received: 03/23/22 09:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.6	U Q M	3.0	0.74	ug/L		03/27/22 10:47	03/28/22 16:49	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/27/22 10:47	03/28/22 16:49	1
Diethyl phthalate	0.30	U Q	1.0	0.15	ug/L		03/27/22 10:47	03/28/22 16:49	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 16:49	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/27/22 10:47	03/28/22 16:49	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/27/22 10:47	03/28/22 16:49	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/27/22 10:47	03/28/22 16:49	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/27/22 10:47	03/28/22 16:49	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/27/22 10:47	03/28/22 16:49	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 16:49	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 16:49	1
m+p-Cresol	0.30	U Q	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 16:49	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 16:49	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/27/22 10:47	03/28/22 16:49	1
N-Nitrosodi-n-propylamine	0.090	U Q	0.40	0.060	ug/L		03/27/22 10:47	03/28/22 16:49	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 16:49	1
o-Cresol	0.15	U Q	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 16:49	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/27/22 10:47	03/28/22 16:49	1
Phenol	0.60	U M	1.0	0.36	ug/L		03/27/22 10:47	03/28/22 16:49	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 16:49	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/27/22 10:47	03/28/22 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	43		43 - 140	03/27/22 10:47	03/28/22 16:49	1
2-Fluorobiphenyl	59		44 - 119	03/27/22 10:47	03/28/22 16:49	1
2-Fluorophenol (Surr)	32		19 - 119	03/27/22 10:47	03/28/22 16:49	1
Nitrobenzene-d5 (Surr)	54		44 - 120	03/27/22 10:47	03/28/22 16:49	1
Phenol-d5 (Surr)	17		10 - 120	03/27/22 10:47	03/28/22 16:49	1
Terphenyl-d14	80		50 - 134	03/27/22 10:47	03/28/22 16:49	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

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

Lab Sample ID: MB 580-385291/1-A
Matrix: Water
Analysis Batch: 385366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385291

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	0.30	U	0.40	0.090	ug/L		03/27/22 10:47	03/28/22 14:03	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/27/22 10:47	03/28/22 14:03	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 14:03	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/27/22 10:47	03/28/22 14:03	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 14:03	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 14:03	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 14:03	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 14:03	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/27/22 10:47	03/28/22 14:03	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/27/22 10:47	03/28/22 14:03	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 14:03	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/27/22 10:47	03/28/22 14:03	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 14:03	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/27/22 10:47	03/28/22 14:03	1
Azobenzene	0.15	U	2.0	0.060	ug/L		03/27/22 10:47	03/28/22 14:03	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.060	ug/L		03/27/22 10:47	03/28/22 14:03	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 14:03	1
Bis(2-chloroethyl)ether	0.090	U	0.10	0.030	ug/L		03/27/22 10:47	03/28/22 14:03	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/27/22 10:47	03/28/22 14:03	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/27/22 10:47	03/28/22 14:03	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/27/22 10:47	03/28/22 14:03	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/27/22 10:47	03/28/22 14:03	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/27/22 10:47	03/28/22 14:03	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/27/22 10:47	03/28/22 14:03	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/27/22 10:47	03/28/22 14:03	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L		03/27/22 10:47	03/28/22 14:03	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L		03/27/22 10:47	03/28/22 14:03	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/27/22 10:47	03/28/22 14:03	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/27/22 10:47	03/28/22 14:03	1
m+p-Cresol	0.30	U	0.60	0.10	ug/L		03/27/22 10:47	03/28/22 14:03	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 14:03	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/27/22 10:47	03/28/22 14:03	1
N-Nitrosodi-n-propylamine	0.090	U	0.40	0.060	ug/L		03/27/22 10:47	03/28/22 14:03	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/27/22 10:47	03/28/22 14:03	1
o-Cresol	0.15	U	0.60	0.050	ug/L		03/27/22 10:47	03/28/22 14:03	1
Pentachlorophenol	1.0	U	10	0.51	ug/L		03/27/22 10:47	03/28/22 14:03	1
Phenol	0.60	U	1.0	0.36	ug/L		03/27/22 10:47	03/28/22 14:03	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/27/22 10:47	03/28/22 14:03	1
Pyridine	3.2	U	10	1.1	ug/L		03/27/22 10:47	03/28/22 14:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	46		43 - 140	03/27/22 10:47	03/28/22 14:03	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

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

Lab Sample ID: MB 580-385291/1-A
Matrix: Water
Analysis Batch: 385366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385291

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	58		44 - 119	03/27/22 10:47	03/28/22 14:03	1
2-Fluorophenol (Surr)	43		19 - 119	03/27/22 10:47	03/28/22 14:03	1
Nitrobenzene-d5 (Surr)	63		44 - 120	03/27/22 10:47	03/28/22 14:03	1
Phenol-d5 (Surr)	21		10 - 120	03/27/22 10:47	03/28/22 14:03	1
Terphenyl-d14	80		50 - 134	03/27/22 10:47	03/28/22 14:03	1

Lab Sample ID: LCS 580-385291/2-A
Matrix: Water
Analysis Batch: 385366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.00	1.09		ug/L		55	32 - 111
1,3-Dichlorobenzene	2.00	1.02		ug/L		51	28 - 110
1,4-Dichlorobenzene	2.00	0.987		ug/L		49	29 - 112
2,4,5-Trichlorophenol	2.00	1.58		ug/L		79	53 - 123
2,4,6-Trichlorophenol	2.00	1.53		ug/L		77	50 - 125
2,4-Dichlorophenol	2.00	1.33		ug/L		66	47 - 121
2,4-Dimethylphenol	2.00	1.31	J Q	ug/L		65	31 - 124
2,4-Dinitrophenol	4.00	2.92	J M	ug/L		73	23 - 143
2,4-Dinitrotoluene	2.00	1.48		ug/L		74	57 - 128
2,6-Dinitrotoluene	2.00	1.48		ug/L		74	57 - 124
2-Chloronaphthalene	2.00	1.22		ug/L		61	40 - 116
2-Chlorophenol	2.00	1.33	Q	ug/L		67	38 - 117
2-Nitrophenol	2.00	1.30		ug/L		65	47 - 123
3,3'-Dichlorobenzidine	4.00	3.05		ug/L		76	27 - 129
4,6-Dinitro-2-methylphenol	4.00	3.01		ug/L		75	44 - 137
4-Bromophenyl phenyl ether	2.00	1.44		ug/L		72	55 - 124
4-Chloro-3-methylphenol	2.00	1.61		ug/L		81	52 - 119
4-Chlorophenyl phenyl ether	2.00	1.47		ug/L		73	53 - 121
4-Nitrophenol	4.00	2.12	J	ug/L		53	35 - 145
Azobenzene	2.00	1.51	J	ug/L		76	61 - 116
bis (2-chloroisopropyl) ether	2.00	1.78		ug/L		89	37 - 130
Bis(2-chloroethoxy)methane	2.00	1.46		ug/L		73	48 - 120
Bis(2-chloroethyl)ether	2.00	1.30	Q	ug/L		65	43 - 118
Bis(2-ethylhexyl) phthalate	2.00	1.99	J	ug/L		100	55 - 135
Butyl benzyl phthalate	2.00	1.92	J	ug/L		96	53 - 134
Diethyl phthalate	2.00	1.68		ug/L		84	56 - 125
Dimethyl phthalate	2.00	1.65		ug/L		82	45 - 127
Di-n-butyl phthalate	2.00	1.66	J	ug/L		83	59 - 127
Di-n-octyl phthalate	2.00	1.81		ug/L		91	51 - 140
Hexachlorobenzene	2.00	1.32		ug/L		66	53 - 125
Hexachlorobutadiene	2.00	0.750	J Q	ug/L		38	22 - 124
Hexachlorocyclopentadiene	2.00	0.653	J Q	ug/L		33	20 - 125
Hexachloroethane	2.00	0.866	J	ug/L		43	21 - 115
Isophorone	2.00	1.38		ug/L		69	42 - 124
m+p-Cresol	2.00	1.12	M Q	ug/L		56	29 - 110
Nitrobenzene	2.00	1.30		ug/L		65	45 - 121

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

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

Lab Sample ID: LCS 580-385291/2-A
Matrix: Water
Analysis Batch: 385366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodimethylamine	2.00	0.917	J	ug/L		46	45 - 125
N-Nitrosodi-n-propylamine	2.00	1.29	Q	ug/L		65	49 - 119
N-Nitrosodiphenylamine	2.00	1.71		ug/L		85	51 - 123
o-Cresol	2.00	1.26	Q	ug/L		63	30 - 117
Pentachlorophenol	4.00	2.44	J	ug/L		61	35 - 138
Phenol	2.00	0.566	J	ug/L		28	13 - 120
Pyrene	2.00	1.54		ug/L		77	57 - 126
Pyridine	4.00	1.39	J Q	ug/L		35	20 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		43 - 140
2-Fluorobiphenyl	61		44 - 119
2-Fluorophenol (Surr)	38		19 - 119
Nitrobenzene-d5 (Surr)	66		44 - 120
Phenol-d5 (Surr)	25		10 - 120
Terphenyl-d14	92		50 - 134

Lab Sample ID: LCSD 580-385291/3-A
Matrix: Water
Analysis Batch: 385366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.00		ug/L		50	29 - 116	9	20
1,2-Dichlorobenzene	2.00	1.06		ug/L		53	32 - 111	3	20
1,3-Dichlorobenzene	2.00	1.04		ug/L		52	28 - 110	2	20
1,4-Dichlorobenzene	2.00	0.974		ug/L		49	29 - 112	1	20
2,4,5-Trichlorophenol	2.00	1.56		ug/L		78	53 - 123	1	20
2,4,6-Trichlorophenol	2.00	1.58		ug/L		79	50 - 125	3	20
2,4-Dichlorophenol	2.00	1.48		ug/L		74	47 - 121	11	20
2,4-Dimethylphenol	2.00	1.62	J Q	ug/L		81	31 - 124	22	20
2,4-Dinitrophenol	4.00	2.73	J M	ug/L		68	23 - 143	7	20
2,4-Dinitrotoluene	2.00	1.57		ug/L		78	57 - 128	6	20
2,6-Dinitrotoluene	2.00	1.46		ug/L		73	57 - 124	1	20
2-Chloronaphthalene	2.00	1.26		ug/L		63	40 - 116	3	20
2-Chlorophenol	2.00	1.70	Q	ug/L		85	38 - 117	24	20
2-Nitrophenol	2.00	1.43		ug/L		72	47 - 123	10	20
3,3'-Dichlorobenzidine	4.00	2.97		ug/L		74	27 - 129	3	20
4,6-Dinitro-2-methylphenol	4.00	2.74		ug/L		69	44 - 137	9	20
4-Bromophenyl phenyl ether	2.00	1.33		ug/L		66	55 - 124	8	20
4-Chloro-3-methylphenol	2.00	1.62		ug/L		81	52 - 119	1	20
4-Chlorophenyl phenyl ether	2.00	1.45		ug/L		73	53 - 121	1	20
4-Nitrophenol	4.00	2.35	J	ug/L		59	35 - 145	10	20
Azobenzene	2.00	1.40	J	ug/L		70	61 - 116	8	20
bis (2-chloroisopropyl) ether	2.00	2.16		ug/L		108	37 - 130	19	20
Bis(2-chloroethoxy)methane	2.00	1.73		ug/L		86	48 - 120	17	20
Bis(2-chloroethyl)ether	2.00	1.62	Q	ug/L		81	43 - 118	22	20
Bis(2-ethylhexyl) phthalate	2.00	1.84	J	ug/L		92	55 - 135	8	20
Butyl benzyl phthalate	2.00	1.73	J	ug/L		87	53 - 134	10	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

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

Lab Sample ID: LCSD 580-385291/3-A
Matrix: Water
Analysis Batch: 385366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Diethyl phthalate	2.00	1.65		ug/L		83	56 - 125	2	20	
Dimethyl phthalate	2.00	1.70		ug/L		85	45 - 127	3	20	
Di-n-butyl phthalate	2.00	1.58	J	ug/L		79	59 - 127	4	20	
Di-n-octyl phthalate	2.00	2.01		ug/L		100	51 - 140	10	20	
Hexachlorobenzene	2.00	1.30		ug/L		65	53 - 125	2	20	
Hexachlorobutadiene	2.00	0.582	J Q	ug/L		29	22 - 124	25	20	
Hexachlorocyclopentadiene	2.00	0.464	J Q	ug/L		23	20 - 125	34	20	
Hexachloroethane	2.00	0.832	J	ug/L		42	21 - 115	4	20	
Isophorone	2.00	1.68		ug/L		84	42 - 124	19	20	
m+p-Cresol	2.00	1.36	Q	ug/L		68	29 - 110	29	20	
Nitrobenzene	2.00	1.52		ug/L		76	45 - 121	16	20	
N-Nitrosodimethylamine	2.00	1.02	J	ug/L		51	45 - 125	10	20	
N-Nitrosodi-n-propylamine	2.00	1.71	Q	ug/L		85	49 - 119	27	20	
N-Nitrosodiphenylamine	2.00	1.61		ug/L		81	51 - 123	6	20	
o-Cresol	2.00	1.57	Q	ug/L		78	30 - 117	22	20	
Pentachlorophenol	4.00	2.25	J	ug/L		56	35 - 138	8	20	
Phenol	2.00	0.599	J	ug/L		30	13 - 120	6	20	
Pyrene	2.00	1.49		ug/L		74	57 - 126	4	20	
Pyridine	4.00	1.87	J Q	ug/L		47	20 - 125	29	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	68		43 - 140
2-Fluorobiphenyl	59		44 - 119
2-Fluorophenol (Surr)	46		19 - 119
Nitrobenzene-d5 (Surr)	72		44 - 120
Phenol-d5 (Surr)	29		10 - 120
Terphenyl-d14	86		50 - 134

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

Lab Sample ID: MB 580-385291/1-A
Matrix: Water
Analysis Batch: 385998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385291

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/27/22 10:47	04/01/22 17:18	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/27/22 10:47	04/01/22 17:18	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/27/22 10:47	04/01/22 17:18	1
Acenaphthylene	0.032	U	0.050	0.0090	ug/L		03/27/22 10:47	04/01/22 17:18	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/27/22 10:47	04/01/22 17:18	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 17:18	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/27/22 10:47	04/01/22 17:18	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/27/22 10:47	04/01/22 17:18	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 17:18	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/27/22 10:47	04/01/22 17:18	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/27/22 10:47	04/01/22 17:18	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/27/22 10:47	04/01/22 17:18	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/27/22 10:47	04/01/22 17:18	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/27/22 10:47	04/01/22 17:18	1

Eurofins Seattle

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

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

Lab Sample ID: MB 580-385291/1-A
Matrix: Water
Analysis Batch: 385998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385291

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/27/22 10:47	04/01/22 17:18	1
Naphthalene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 17:18	1
Phenanthrene	0.080	U	0.10	0.031	ug/L		03/27/22 10:47	04/01/22 17:18	1
Pyrene	0.080	U	0.10	0.033	ug/L		03/27/22 10:47	04/01/22 17:18	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-methylnaphthalene-d10	50		40 - 140	03/27/22 10:47	04/01/22 17:18	1
Fluoranthene-d10 (Surr)	74		40 - 140	03/27/22 10:47	04/01/22 17:18	1
Terphenyl-d14	80		58 - 132	03/27/22 10:47	04/01/22 17:18	1

Lab Sample ID: LCS 580-385291/2-A
Matrix: Water
Analysis Batch: 385998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
1-Methylnaphthalene	2.00	1.24		ug/L		62	41 - 115
2-Methylnaphthalene	2.00	1.18		ug/L		59	39 - 114
Acenaphthene	2.00	1.30		ug/L		65	48 - 114
Acenaphthylene	2.00	1.22		ug/L		61	35 - 121
Anthracene	2.00	1.41		ug/L		70	53 - 119
Benzo[a]anthracene	2.00	1.45		ug/L		72	59 - 120
Benzo[a]pyrene	2.00	1.34		ug/L		67	53 - 120
Benzo[b]fluoranthene	2.00	1.43		ug/L		72	53 - 126
Benzo[g,h,i]perylene	2.00	1.52		ug/L		76	44 - 128
Benzo[k]fluoranthene	2.00	1.50		ug/L		75	54 - 125
Chrysene	2.00	1.38		ug/L		69	57 - 120
Dibenz(a,h)anthracene	2.00	1.52	M	ug/L		76	44 - 131
Fluoranthene	2.00	1.58		ug/L		79	58 - 120
Fluorene	2.00	1.41		ug/L		71	50 - 118
Indeno[1,2,3-cd]pyrene	2.00	1.44	M	ug/L		72	48 - 130
Naphthalene	2.00	1.19		ug/L		60	43 - 114
Phenanthrene	2.00	1.37		ug/L		68	53 - 115
Pyrene	2.00	1.55		ug/L		77	53 - 121

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-methylnaphthalene-d10	61		40 - 140
Fluoranthene-d10 (Surr)	81		40 - 140
Terphenyl-d14	88		58 - 132

Lab Sample ID: LCSD 580-385291/3-A
Matrix: Water
Analysis Batch: 385998

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	2.00	1.17		ug/L		58	41 - 115	6	20
2-Methylnaphthalene	2.00	1.12		ug/L		56	39 - 114	5	20
Acenaphthene	2.00	1.27		ug/L		64	48 - 114	2	20
Acenaphthylene	2.00	1.22		ug/L		61	35 - 121	1	20

Eurofins Seattle

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

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

Lab Sample ID: LCSD 580-385291/3-A
Matrix: Water
Analysis Batch: 385998

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	2.00	1.39		ug/L		70	53 - 119	1	20
Benzo[a]anthracene	2.00	1.41		ug/L		71	59 - 120	2	20
Benzo[a]pyrene	2.00	1.32		ug/L		66	53 - 120	2	20
Benzo[b]fluoranthene	2.00	1.41		ug/L		71	53 - 126	1	20
Benzo[g,h,i]perylene	2.00	1.51		ug/L		75	44 - 128	1	20
Benzo[k]fluoranthene	2.00	1.49		ug/L		74	54 - 125	1	20
Chrysene	2.00	1.35		ug/L		68	57 - 120	2	20
Dibenz(a,h)anthracene	2.00	1.50	M	ug/L		75	44 - 131	1	20
Fluoranthene	2.00	1.54		ug/L		77	58 - 120	2	20
Fluorene	2.00	1.39		ug/L		69	50 - 118	2	20
Indeno[1,2,3-cd]pyrene	2.00	1.49	M	ug/L		75	48 - 130	3	20
Naphthalene	2.00	1.16		ug/L		58	43 - 114	3	20
Phenanthrene	2.00	1.36		ug/L		68	53 - 115	0	20
Pyrene	2.00	1.51		ug/L		76	53 - 121	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-methylnaphthalene-d10	59		40 - 140
Fluoranthene-d10 (Surr)	78		40 - 140
Terphenyl-d14	84		58 - 132

Lab Chronicle

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Client Sample ID: ERH2857 (RHMW15-05)

Lab Sample ID: 580-111736-1

Date Collected: 03/21/22 09:10

Matrix: Water

Date Received: 03/23/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E		1	385366	03/28/22 15:37	TL1	FGS SEA
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385998	04/01/22 18:16	E1L	FGS SEA

Client Sample ID: ERH2863 (RHMW09)

Lab Sample ID: 580-111736-2

Date Collected: 03/21/22 11:05

Matrix: Water

Date Received: 03/23/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E		1	385366	03/28/22 16:01	TL1	FGS SEA
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385998	04/01/22 18:36	E1L	FGS SEA

Client Sample ID: ERH2866 (RHMW19)

Lab Sample ID: 580-111736-3

Date Collected: 03/21/22 08:50

Matrix: Water

Date Received: 03/23/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E		1	385366	03/28/22 16:25	TL1	FGS SEA
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385998	04/01/22 18:55	E1L	FGS SEA

Client Sample ID: ERH2867 (RHMW19EB)

Lab Sample ID: 580-111736-4

Date Collected: 03/21/22 10:20

Matrix: Water

Date Received: 03/23/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E		1	385366	03/28/22 16:49	TL1	FGS SEA
Total/NA	Prep	3510C			385291	03/27/22 10:47	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385998	04/01/22 19:14	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 NOI GW

Job ID: 580-111736-1

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
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- 11

Sample Summary

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111736-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-111736-1	ERH2857 (RHMW15-05)	Water	03/21/22 09:10	03/23/22 09:30
580-111736-2	ERH2863 (RHMW09)	Water	03/21/22 11:05	03/23/22 09:30
580-111736-3	ERH2866 (RHMW19)	Water	03/21/22 08:50	03/23/22 09:30
580-111736-4	ERH2867 (RHMW19EB)	Water	03/21/22 10:20	03/23/22 09:30

- 1
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- 3
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- 7
- 8
- 9
- 10
- 11

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-111736-1

Login Number: 111736

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	

