

ANALYTICAL REPORT

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Laboratory Job ID: 580-111436-1
Client Project/Site: Red Hill NOI GW

For:
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Authorized for release by:
3/29/2022 12:49:59 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: 580-111436-1

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Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE **Client: AECOM** **Project: Red Hill NOI GW** **Report Number: 580-111436-1**

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

Nine samples were received on 3/16/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4° C, 1.7° C and 3.1° 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 ERH2807 (RHMW03) (580-111436-1), ERH2803 (RHMW12A) (580-111436-2), ERH2804 (RHMW12A) (580-111436-3), ERH2818 (RHMW05) (580-111436-4), ERH2814 (RHMW01R) (580-111436-5), ERH2815 (RHMW01R) (580-111436-6), ERH2775 (RHMW15-05) (580-111436-7), ERH2800 (RHMW14-3) (580-111436-8) and ERH2821 (RHMW16) (580-111436-9) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270E. The samples were prepared on 03/18/2022 and 03/21/2022 and analyzed on 03/22/2022 and 03/23/2022.

The continuing calibration verification (CCV) associated with batch 580-384624 recovered above the upper control limit for 3,3'-Dichlorobenzidine. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: ERH2775 (RHMW15-05) (580-111436-7) and (CCVIS 580-384624/3).

3,3'-Dichlorobenzidine and Hexachloroethane exceeded the RPD limit for LCSD 580-384314/3-A. The LCS and LCSD recoveries were in control.

The continuing calibration verification (CCV) associated with batch 580-384789 recovered above the upper control limit for 3,3'-Dichlorobenzidine. 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 580-384789/3).

The continuing calibration verification (CCV) associated with batch 580-384865 recovered above the upper control limit for

Case Narrative

Client: AECOM
Project/Site: Red Hill NOI GW

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Laboratory: Eurofins Seattle (Continued)

3,3'-Dichlorobenzidine. 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 580-384865/3).

For LCSD 580-384501/3-A, 4,6-Dinitro-2-methylphenol failed the recovery criteria low. 4,6-Dinitro-2-methylphenol has been identified as a poor performing analyte when analyzed using this method. Bis(2-ethylhexyl) phthalate failed the recovery criteria high. This analyte was biased high in the LCSD and was not detected in the associated samples. Also, several analytes exceeded the RPD limit.

For samples ERH2818 (RHMW05) (580-111436-4) and ERH2814 (RHMW01R) (580-111436-5): Detections for Di-n-butyl phthalate have been confirmed.

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 ERH2807 (RHMW03) (580-111436-1), ERH2803 (RHMW12A) (580-111436-2), ERH2804 (RHMW12A) (580-111436-3), ERH2818 (RHMW05) (580-111436-4), ERH2814 (RHMW01R) (580-111436-5), ERH2815 (RHMW01R) (580-111436-6), ERH2775 (RHMW15-05) (580-111436-7), ERH2800 (RHMW14-3) (580-111436-8) and ERH2821 (RHMW16) (580-111436-9) were analyzed for semivolatile organic compounds (GC-MS - SIM) in accordance with 8270E SIM. The samples were prepared on 03/18/2022 and 03/21/2022 and analyzed on 03/21/2022 and 03/25/2022.

For samples ERH2814 (RHMW01R) (580-111436-5) and ERH2815 (RHMW01R) (580-111436-6): Detections for polycyclic aromatic hydrocarbons have been confirmed.

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: 580-111436-1

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: 580-111436-1

Client Sample ID: ERH2807 (RHMW03)

Lab Sample ID: 580-111436-1

Date Collected: 03/15/22 12:50

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/25/22 19:57	1
2-Methylnaphthalene	0.081	U	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 19:57	1
Acenaphthene	0.032	U M	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 19:57	1
Acenaphthylene	0.032	U M	0.050	0.0091	ug/L		03/21/22 09:43	03/25/22 19:57	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 19:57	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 19:57	1
Benzo[a]pyrene	0.032	U M	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 19:57	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 19:57	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 19:57	1
Benzo[k]fluoranthene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 19:57	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 19:57	1
Dibenz(a,h)anthracene	0.032	U M	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 19:57	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 19:57	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 19:57	1
Indeno[1,2,3-cd]pyrene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 19:57	1
Naphthalene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 19:57	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 19:57	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	57		40 - 140	03/21/22 09:43	03/25/22 19:57	1
Fluoranthene-d10 (Surr)	84		40 - 140	03/21/22 09:43	03/25/22 19:57	1
Terphenyl-d14	94		58 - 132	03/21/22 09:43	03/25/22 19:57	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	0.091	ug/L		03/21/22 09:43	03/23/22 10:41	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 10:41	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 10:41	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 10:41	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 10:41	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 10:41	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 10:41	1
2-Nitrophenol	0.15	U Q	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 10:41	1
3,3'-Dichlorobenzidine	0.60	U M Q	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 10:41	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/21/22 09:43	03/23/22 10:41	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 10:41	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/21/22 09:43	03/23/22 10:41	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 10:41	1
4-Nitrophenol	6.0	U Q	10	1.7	ug/L		03/21/22 09:43	03/23/22 10:41	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/21/22 09:43	03/23/22 10:41	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.060	ug/L		03/21/22 09:43	03/23/22 10:41	1
Bis(2-chloroethoxy)methane	0.15	U M	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 10:41	1
Bis(2-chloroethyl)ether	0.091	U	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 10:41	1

Eurofins Seattle

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2807 (RHMW03)

Lab Sample ID: 580-111436-1

Date Collected: 03/15/22 12:50

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/23/22 10:41	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 10:41	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 10:41	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 10:41	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 10:41	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 10:41	1
Hexachlorobenzene	0.091	U	0.60	0.040	ug/L		03/21/22 09:43	03/23/22 10:41	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/21/22 09:43	03/23/22 10:41	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 10:41	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 10:41	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 10:41	1
m+p-Cresol	0.30	U M	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 10:41	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 10:41	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 10:41	1
N-Nitrosodi-n-propylamine	0.091	U M	0.40	0.060	ug/L		03/21/22 09:43	03/23/22 10:41	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 10:41	1
o-Cresol	0.15	U M	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 10:41	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/21/22 09:43	03/23/22 10:41	1
Phenol	0.60	U M	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 10:41	1
Pyrene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 10:41	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/21/22 09:43	03/23/22 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		43 - 140	03/21/22 09:43	03/23/22 10:41	1
2-Fluorobiphenyl	59		44 - 119	03/21/22 09:43	03/23/22 10:41	1
2-Fluorophenol (Surr)	49		19 - 119	03/21/22 09:43	03/23/22 10:41	1
Nitrobenzene-d5 (Surr)	67		44 - 120	03/21/22 09:43	03/23/22 10:41	1
Phenol-d5 (Surr)	36	M	10 - 120	03/21/22 09:43	03/23/22 10:41	1
Terphenyl-d14	91		50 - 134	03/21/22 09:43	03/23/22 10:41	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2803 (RHMW12A)

Lab Sample ID: 580-111436-2

Date Collected: 03/15/22 13:10

Matrix: Water

Date Received: 03/16/22 14:59

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.030	U	0.095	0.018	ug/L		03/21/22 09:43	03/25/22 20:21	1
2-Methylnaphthalene	0.076	U	0.19	0.037	ug/L		03/21/22 09:43	03/25/22 20:21	1
Acenaphthene	0.030	U M	0.095	0.013	ug/L		03/21/22 09:43	03/25/22 20:21	1
Acenaphthylene	0.030	U M	0.048	0.0086	ug/L		03/21/22 09:43	03/25/22 20:21	1
Anthracene	0.076	U M	0.095	0.021	ug/L		03/21/22 09:43	03/25/22 20:21	1
Benzo[a]anthracene	0.030	U M	0.048	0.013	ug/L		03/21/22 09:43	03/25/22 20:21	1
Benzo[a]pyrene	0.030	U M	0.095	0.010	ug/L		03/21/22 09:43	03/25/22 20:21	1
Benzo[b]fluoranthene	0.030	U M	0.048	0.010	ug/L		03/21/22 09:43	03/25/22 20:21	1
Benzo[g,h,i]perylene	0.030	U M	0.048	0.011	ug/L		03/21/22 09:43	03/25/22 20:21	1
Benzo[k]fluoranthene	0.030	U M	0.048	0.011	ug/L		03/21/22 09:43	03/25/22 20:21	1
Chrysene	0.030	U M	0.095	0.015	ug/L		03/21/22 09:43	03/25/22 20:21	1
Dibenz(a,h)anthracene	0.030	U M	0.095	0.025	ug/L		03/21/22 09:43	03/25/22 20:21	1
Fluoranthene	0.030	U M	0.19	0.017	ug/L		03/21/22 09:43	03/25/22 20:21	1
Fluorene	0.030	U M	0.095	0.016	ug/L		03/21/22 09:43	03/25/22 20:21	1
Indeno[1,2,3-cd]pyrene	0.030	U M	0.048	0.013	ug/L		03/21/22 09:43	03/25/22 20:21	1
Naphthalene	0.076	U M	0.095	0.030	ug/L		03/21/22 09:43	03/25/22 20:21	1
Phenanthrene	0.076	U M	0.095	0.030	ug/L		03/21/22 09:43	03/25/22 20:21	1
Pyrene	0.076	U M	0.095	0.031	ug/L		03/21/22 09:43	03/25/22 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	68		40 - 140	03/21/22 09:43	03/25/22 20:21	1
Fluoranthene-d10 (Surr)	94		40 - 140	03/21/22 09:43	03/25/22 20:21	1
Terphenyl-d14	105		58 - 132	03/21/22 09:43	03/25/22 20:21	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.29	U M	0.38	0.086	ug/L		03/21/22 09:43	03/23/22 21:35	1
1,2-Dichlorobenzene	0.14	U	0.38	0.048	ug/L		03/21/22 09:43	03/23/22 21:35	1
1,3-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/21/22 09:43	03/23/22 21:35	1
1,4-Dichlorobenzene	0.086	U M	0.38	0.038	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,4,5-Trichlorophenol	0.29	U	0.38	0.095	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,4,6-Trichlorophenol	0.29	U	0.57	0.095	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,4-Dichlorophenol	0.48	U	0.95	0.19	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,4-Dimethylphenol	0.48	U M	3.8	0.15	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,4-Dinitrophenol	3.0	U Q	4.8	1.5	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,4-Dinitrotoluene	0.29	U	0.95	0.095	ug/L		03/21/22 09:43	03/23/22 21:35	1
2,6-Dinitrotoluene	0.29	U M	0.38	0.095	ug/L		03/21/22 09:43	03/23/22 21:35	1
2-Chloronaphthalene	0.14	U	0.95	0.067	ug/L		03/21/22 09:43	03/23/22 21:35	1
2-Chlorophenol	0.14	U M	0.95	0.048	ug/L		03/21/22 09:43	03/23/22 21:35	1
2-Nitrophenol	0.14	U M Q	0.95	0.067	ug/L		03/21/22 09:43	03/23/22 21:35	1
3,3'-Dichlorobenzidine	0.57	U M Q	0.95	0.25	ug/L		03/21/22 09:43	03/23/22 21:35	1
4,6-Dinitro-2-methylphenol	1.1	U Q	1.9	0.52	ug/L		03/21/22 09:43	03/23/22 21:35	1
4-Bromophenyl phenyl ether	0.14	U	0.57	0.057	ug/L		03/21/22 09:43	03/23/22 21:35	1
4-Chloro-3-methylphenol	0.29	U M	0.57	0.12	ug/L		03/21/22 09:43	03/23/22 21:35	1
4-Chlorophenyl phenyl ether	0.14	U	0.57	0.048	ug/L		03/21/22 09:43	03/23/22 21:35	1
4-Nitrophenol	5.7	U Q	9.5	1.6	ug/L		03/21/22 09:43	03/23/22 21:35	1
Azobenzene	0.14	U M	1.9	0.057	ug/L		03/21/22 09:43	03/23/22 21:35	1
bis (2-chloroisopropyl) ether	0.14	U M	0.24	0.057	ug/L		03/21/22 09:43	03/23/22 21:35	1
Bis(2-chloroethoxy)methane	0.14	U	0.57	0.048	ug/L		03/21/22 09:43	03/23/22 21:35	1
Bis(2-chloroethyl)ether	0.086	U M	0.095	0.029	ug/L		03/21/22 09:43	03/23/22 21:35	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2803 (RHMW12A)

Lab Sample ID: 580-111436-2

Date Collected: 03/15/22 13:10

Matrix: Water

Date Received: 03/16/22 14:59

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.5	U Q	2.9	0.70	ug/L		03/21/22 09:43	03/23/22 21:35	1
Butyl benzyl phthalate	0.57	U	3.8	0.26	ug/L		03/21/22 09:43	03/23/22 21:35	1
Diethyl phthalate	0.29	U	0.95	0.14	ug/L		03/21/22 09:43	03/23/22 21:35	1
Dimethyl phthalate	0.14	U	0.57	0.057	ug/L		03/21/22 09:43	03/23/22 21:35	1
Di-n-butyl phthalate	0.48	U	2.9	0.18	ug/L		03/21/22 09:43	03/23/22 21:35	1
Di-n-octyl phthalate	0.29	U M	0.95	0.12	ug/L		03/21/22 09:43	03/23/22 21:35	1
Hexachlorobenzene	0.086	U	0.57	0.038	ug/L		03/21/22 09:43	03/23/22 21:35	1
Hexachlorobutadiene	0.14	U Q	0.95	0.057	ug/L		03/21/22 09:43	03/23/22 21:35	1
Hexachlorocyclopentadiene	0.29	U Q	0.95	0.13	ug/L		03/21/22 09:43	03/23/22 21:35	1
Hexachloroethane	0.14	U Q	0.95	0.048	ug/L		03/21/22 09:43	03/23/22 21:35	1
Isophorone	0.29	U	0.38	0.095	ug/L		03/21/22 09:43	03/23/22 21:35	1
m+p-Cresol	0.29	U M	0.57	0.095	ug/L		03/21/22 09:43	03/23/22 21:35	1
Nitrobenzene	0.086	U	0.95	0.038	ug/L		03/21/22 09:43	03/23/22 21:35	1
N-Nitrosodimethylamine	0.57	U	1.9	0.25	ug/L		03/21/22 09:43	03/23/22 21:35	1
N-Nitrosodi-n-propylamine	0.086	U M	0.38	0.057	ug/L		03/21/22 09:43	03/23/22 21:35	1
N-Nitrosodiphenylamine	0.14	U	0.95	0.067	ug/L		03/21/22 09:43	03/23/22 21:35	1
o-Cresol	0.14	U M	0.57	0.048	ug/L		03/21/22 09:43	03/23/22 21:35	1
Pentachlorophenol	0.95	U Q	9.5	0.49	ug/L		03/21/22 09:43	03/23/22 21:35	1
Phenol	0.57	U	0.95	0.34	ug/L		03/21/22 09:43	03/23/22 21:35	1
Pyrene	0.086	U M	0.95	0.038	ug/L		03/21/22 09:43	03/23/22 21:35	1
Pyridine	3.0	U Q	9.5	1.0	ug/L		03/21/22 09:43	03/23/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		43 - 140	03/21/22 09:43	03/23/22 21:35	1
2-Fluorobiphenyl	67		44 - 119	03/21/22 09:43	03/23/22 21:35	1
2-Fluorophenol (Surr)	54		19 - 119	03/21/22 09:43	03/23/22 21:35	1
Nitrobenzene-d5 (Surr)	78		44 - 120	03/21/22 09:43	03/23/22 21:35	1
Phenol-d5 (Surr)	39		10 - 120	03/21/22 09:43	03/23/22 21:35	1
Terphenyl-d14	102		50 - 134	03/21/22 09:43	03/23/22 21:35	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2804 (RHMW12A)

Lab Sample ID: 580-111436-3

Date Collected: 03/15/22 13:10

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/25/22 20:46	1
2-Methylnaphthalene	0.081	U	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 20:46	1
Acenaphthene	0.032	U M	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 20:46	1
Acenaphthylene	0.032	U M	0.050	0.0091	ug/L		03/21/22 09:43	03/25/22 20:46	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 20:46	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 20:46	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 20:46	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 20:46	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 20:46	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 20:46	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 20:46	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 20:46	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 20:46	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 20:46	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 20:46	1
Naphthalene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 20:46	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 20:46	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	64		40 - 140	03/21/22 09:43	03/25/22 20:46	1
Fluoranthene-d10 (Surr)	98		40 - 140	03/21/22 09:43	03/25/22 20:46	1
Terphenyl-d14	110		58 - 132	03/21/22 09:43	03/25/22 20:46	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	0.091	ug/L		03/21/22 09:43	03/23/22 21:58	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 21:58	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 21:58	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,4,6-Trichlorophenol	0.30	U	0.61	0.10	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 21:58	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 21:58	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 21:58	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 21:58	1
2-Nitrophenol	0.15	U Q	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 21:58	1
3,3'-Dichlorobenzidine	0.61	U M Q	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 21:58	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/21/22 09:43	03/23/22 21:58	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/21/22 09:43	03/23/22 21:58	1
4-Chloro-3-methylphenol	0.30	U M	0.61	0.13	ug/L		03/21/22 09:43	03/23/22 21:58	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 21:58	1
4-Nitrophenol	6.1	U Q	10	1.7	ug/L		03/21/22 09:43	03/23/22 21:58	1
Azobenzene	0.15	U M	2.0	0.061	ug/L		03/21/22 09:43	03/23/22 21:58	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.061	ug/L		03/21/22 09:43	03/23/22 21:58	1
Bis(2-chloroethoxy)methane	0.15	U	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 21:58	1
Bis(2-chloroethyl)ether	0.091	U M	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 21:58	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2804 (RHMW12A)

Lab Sample ID: 580-111436-3

Date Collected: 03/15/22 13:10

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/23/22 21:58	1
Butyl benzyl phthalate	0.61	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 21:58	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 21:58	1
Dimethyl phthalate	0.15	U M	0.61	0.061	ug/L		03/21/22 09:43	03/23/22 21:58	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 21:58	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 21:58	1
Hexachlorobenzene	0.091	U	0.61	0.040	ug/L		03/21/22 09:43	03/23/22 21:58	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/21/22 09:43	03/23/22 21:58	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 21:58	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 21:58	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 21:58	1
m+p-Cresol	0.30	U M	0.61	0.10	ug/L		03/21/22 09:43	03/23/22 21:58	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 21:58	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 21:58	1
N-Nitrosodi-n-propylamine	0.091	U M	0.40	0.061	ug/L		03/21/22 09:43	03/23/22 21:58	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 21:58	1
o-Cresol	0.15	U M	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 21:58	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/21/22 09:43	03/23/22 21:58	1
Phenol	0.61	U	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 21:58	1
Pyrene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 21:58	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/21/22 09:43	03/23/22 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		43 - 140				03/21/22 09:43	03/23/22 21:58	1
2-Fluorobiphenyl	66		44 - 119				03/21/22 09:43	03/23/22 21:58	1
2-Fluorophenol (Surr)	51		19 - 119				03/21/22 09:43	03/23/22 21:58	1
Nitrobenzene-d5 (Surr)	74		44 - 120				03/21/22 09:43	03/23/22 21:58	1
Phenol-d5 (Surr)	36		10 - 120				03/21/22 09:43	03/23/22 21:58	1
Terphenyl-d14	110		50 - 134				03/21/22 09:43	03/23/22 21:58	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2818 (RHMW05)

Lab Sample ID: 580-111436-4

Date Collected: 03/15/22 09:05

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/25/22 21:10	1
2-Methylnaphthalene	0.081	U	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 21:10	1
Acenaphthene	0.032	U M	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 21:10	1
Acenaphthylene	0.032	U M	0.050	0.0091	ug/L		03/21/22 09:43	03/25/22 21:10	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 21:10	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 21:10	1
Benzo[a]pyrene	0.032	U M	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 21:10	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 21:10	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 21:10	1
Benzo[k]fluoranthene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 21:10	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 21:10	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 21:10	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 21:10	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 21:10	1
Indeno[1,2,3-cd]pyrene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 21:10	1
Naphthalene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 21:10	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 21:10	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	69		40 - 140	03/21/22 09:43	03/25/22 21:10	1
Fluoranthene-d10 (Surr)	91		40 - 140	03/21/22 09:43	03/25/22 21:10	1
Terphenyl-d14	101		58 - 132	03/21/22 09:43	03/25/22 21:10	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	0.091	ug/L		03/21/22 09:43	03/23/22 22:22	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 22:22	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 22:22	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,4,6-Trichlorophenol	0.30	U	0.61	0.10	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,4-Dimethylphenol	0.50	U M	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 22:22	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 22:22	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 22:22	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 22:22	1
2-Nitrophenol	0.15	U Q	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 22:22	1
3,3'-Dichlorobenzidine	0.61	U Q	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 22:22	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/21/22 09:43	03/23/22 22:22	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/21/22 09:43	03/23/22 22:22	1
4-Chloro-3-methylphenol	0.30	U M	0.61	0.13	ug/L		03/21/22 09:43	03/23/22 22:22	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 22:22	1
4-Nitrophenol	6.1	U M Q	10	1.7	ug/L		03/21/22 09:43	03/23/22 22:22	1
Azobenzene	0.15	U	2.0	0.061	ug/L		03/21/22 09:43	03/23/22 22:22	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.061	ug/L		03/21/22 09:43	03/23/22 22:22	1
Bis(2-chloroethoxy)methane	0.15	U M	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 22:22	1
Bis(2-chloroethyl)ether	0.091	U M	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 22:22	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2818 (RHMW05)

Lab Sample ID: 580-111436-4

Date Collected: 03/15/22 09:05

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/23/22 22:22	1
Butyl benzyl phthalate	0.61	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 22:22	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 22:22	1
Dimethyl phthalate	0.15	U	0.61	0.061	ug/L		03/21/22 09:43	03/23/22 22:22	1
Di-n-butyl phthalate	0.19	J	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 22:22	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 22:22	1
Hexachlorobenzene	0.091	U	0.61	0.040	ug/L		03/21/22 09:43	03/23/22 22:22	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/21/22 09:43	03/23/22 22:22	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 22:22	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 22:22	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 22:22	1
m+p-Cresol	0.30	U M	0.61	0.10	ug/L		03/21/22 09:43	03/23/22 22:22	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 22:22	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 22:22	1
N-Nitrosodi-n-propylamine	0.091	U	0.40	0.061	ug/L		03/21/22 09:43	03/23/22 22:22	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 22:22	1
o-Cresol	0.15	U	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 22:22	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/21/22 09:43	03/23/22 22:22	1
Phenol	0.61	U	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 22:22	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 22:22	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/21/22 09:43	03/23/22 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		43 - 140	03/21/22 09:43	03/23/22 22:22	1
2-Fluorobiphenyl	69		44 - 119	03/21/22 09:43	03/23/22 22:22	1
2-Fluorophenol (Surr)	53		19 - 119	03/21/22 09:43	03/23/22 22:22	1
Nitrobenzene-d5 (Surr)	74		44 - 120	03/21/22 09:43	03/23/22 22:22	1
Phenol-d5 (Surr)	29		10 - 120	03/21/22 09:43	03/23/22 22:22	1
Terphenyl-d14	95		50 - 134	03/21/22 09:43	03/23/22 22:22	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2814 (RHMW01R)

Lab Sample ID: 580-111436-5

Date Collected: 03/15/22 10:20

Matrix: Water

Date Received: 03/16/22 14:59

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	J	0.10	0.019	ug/L		03/21/22 09:43	03/25/22 21:35	1
2-Methylnaphthalene	0.081	U	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 21:35	1
Acenaphthene	0.019	J M	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 21:35	1
Acenaphthylene	0.032	U M	0.050	0.0091	ug/L		03/21/22 09:43	03/25/22 21:35	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 21:35	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 21:35	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 21:35	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 21:35	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 21:35	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 21:35	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 21:35	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 21:35	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 21:35	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 21:35	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 21:35	1
Naphthalene	0.11		0.10	0.031	ug/L		03/21/22 09:43	03/25/22 21:35	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 21:35	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	64		40 - 140	03/21/22 09:43	03/25/22 21:35	1
Fluoranthene-d10 (Surr)	83		40 - 140	03/21/22 09:43	03/25/22 21:35	1
Terphenyl-d14	89		58 - 132	03/21/22 09:43	03/25/22 21:35	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	0.091	ug/L		03/21/22 09:43	03/23/22 22:45	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 22:45	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 22:45	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,4-Dichlorophenol	0.50	U M	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,4-Dimethylphenol	0.50	U M	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,4-Dinitrotoluene	0.30	U M	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 22:45	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 22:45	1
2-Chloronaphthalene	0.15	U M	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 22:45	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 22:45	1
2-Nitrophenol	0.15	U M Q	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 22:45	1
3,3'-Dichlorobenzidine	0.60	U Q	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 22:45	1
4,6-Dinitro-2-methylphenol	1.2	U M Q	2.0	0.55	ug/L		03/21/22 09:43	03/23/22 22:45	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 22:45	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/21/22 09:43	03/23/22 22:45	1
4-Chlorophenyl phenyl ether	0.15	U M	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 22:45	1
4-Nitrophenol	6.0	U M Q	10	1.7	ug/L		03/21/22 09:43	03/23/22 22:45	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/21/22 09:43	03/23/22 22:45	1
bis (2-chloroisopropyl) ether	0.15	U	0.25	0.060	ug/L		03/21/22 09:43	03/23/22 22:45	1
Bis(2-chloroethoxy)methane	0.15	U M	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 22:45	1
Bis(2-chloroethyl)ether	0.091	U M	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 22:45	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2814 (RHMW01R)

Lab Sample ID: 580-111436-5

Date Collected: 03/15/22 10:20

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/23/22 22:45	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 22:45	1
Diethyl phthalate	0.30	U M	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 22:45	1
Dimethyl phthalate	0.15	U M	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 22:45	1
Di-n-butyl phthalate	0.19	J	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 22:45	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 22:45	1
Hexachlorobenzene	0.091	U	0.60	0.040	ug/L		03/21/22 09:43	03/23/22 22:45	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/21/22 09:43	03/23/22 22:45	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 22:45	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 22:45	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 22:45	1
m+p-Cresol	0.30	U	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 22:45	1
Nitrobenzene	0.091	U M	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 22:45	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 22:45	1
N-Nitrosodi-n-propylamine	0.091	U M	0.40	0.060	ug/L		03/21/22 09:43	03/23/22 22:45	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 22:45	1
o-Cresol	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 22:45	1
Pentachlorophenol	1.0	U M Q	10	0.51	ug/L		03/21/22 09:43	03/23/22 22:45	1
Phenol	0.60	U	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 22:45	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 22:45	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/21/22 09:43	03/23/22 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		43 - 140	03/21/22 09:43	03/23/22 22:45	1
2-Fluorobiphenyl	60		44 - 119	03/21/22 09:43	03/23/22 22:45	1
2-Fluorophenol (Surr)	52		19 - 119	03/21/22 09:43	03/23/22 22:45	1
Nitrobenzene-d5 (Surr)	66		44 - 120	03/21/22 09:43	03/23/22 22:45	1
Phenol-d5 (Surr)	40		10 - 120	03/21/22 09:43	03/23/22 22:45	1
Terphenyl-d14	91		50 - 134	03/21/22 09:43	03/23/22 22:45	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2815 (RHMW01R)

Lab Sample ID: 580-111436-6

Date Collected: 03/15/22 10:20

Matrix: Water

Date Received: 03/16/22 14:59

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.037	J	0.096	0.018	ug/L		03/21/22 09:43	03/25/22 22:00	1
2-Methylnaphthalene	0.076	U	0.19	0.037	ug/L		03/21/22 09:43	03/25/22 22:00	1
Acenaphthene	0.023	J M	0.096	0.013	ug/L		03/21/22 09:43	03/25/22 22:00	1
Acenaphthylene	0.031	U M	0.048	0.0086	ug/L		03/21/22 09:43	03/25/22 22:00	1
Anthracene	0.076	U M	0.096	0.021	ug/L		03/21/22 09:43	03/25/22 22:00	1
Benzo[a]anthracene	0.031	U M	0.048	0.013	ug/L		03/21/22 09:43	03/25/22 22:00	1
Benzo[a]pyrene	0.031	U M	0.096	0.011	ug/L		03/21/22 09:43	03/25/22 22:00	1
Benzo[b]fluoranthene	0.031	U M	0.048	0.011	ug/L		03/21/22 09:43	03/25/22 22:00	1
Benzo[g,h,i]perylene	0.031	U M	0.048	0.011	ug/L		03/21/22 09:43	03/25/22 22:00	1
Benzo[k]fluoranthene	0.031	U M	0.048	0.011	ug/L		03/21/22 09:43	03/25/22 22:00	1
Chrysene	0.031	U M	0.096	0.015	ug/L		03/21/22 09:43	03/25/22 22:00	1
Dibenz(a,h)anthracene	0.031	U M	0.096	0.025	ug/L		03/21/22 09:43	03/25/22 22:00	1
Fluoranthene	0.031	U M	0.19	0.017	ug/L		03/21/22 09:43	03/25/22 22:00	1
Fluorene	0.019	J	0.096	0.016	ug/L		03/21/22 09:43	03/25/22 22:00	1
Indeno[1,2,3-cd]pyrene	0.031	U M	0.048	0.013	ug/L		03/21/22 09:43	03/25/22 22:00	1
Naphthalene	0.14		0.096	0.030	ug/L		03/21/22 09:43	03/25/22 22:00	1
Phenanthrene	0.076	U M	0.096	0.030	ug/L		03/21/22 09:43	03/25/22 22:00	1
Pyrene	0.076	U M	0.096	0.032	ug/L		03/21/22 09:43	03/25/22 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	72		40 - 140	03/21/22 09:43	03/25/22 22:00	1
Fluoranthene-d10 (Surr)	87		40 - 140	03/21/22 09:43	03/25/22 22:00	1
Terphenyl-d14	95		58 - 132	03/21/22 09:43	03/25/22 22:00	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.29	U	0.38	0.086	ug/L		03/21/22 09:43	03/23/22 23:08	1
1,2-Dichlorobenzene	0.14	U	0.38	0.048	ug/L		03/21/22 09:43	03/23/22 23:08	1
1,3-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/21/22 09:43	03/23/22 23:08	1
1,4-Dichlorobenzene	0.086	U	0.38	0.038	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,4,5-Trichlorophenol	0.29	U	0.38	0.096	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,4,6-Trichlorophenol	0.29	U	0.57	0.096	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,4-Dichlorophenol	0.48	U M	0.96	0.19	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,4-Dimethylphenol	0.48	U M	3.8	0.15	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,4-Dinitrophenol	3.1	U Q	4.8	1.5	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,4-Dinitrotoluene	0.29	U M	0.96	0.096	ug/L		03/21/22 09:43	03/23/22 23:08	1
2,6-Dinitrotoluene	0.29	U M	0.38	0.096	ug/L		03/21/22 09:43	03/23/22 23:08	1
2-Chloronaphthalene	0.14	U M	0.96	0.067	ug/L		03/21/22 09:43	03/23/22 23:08	1
2-Chlorophenol	0.14	U	0.96	0.048	ug/L		03/21/22 09:43	03/23/22 23:08	1
2-Nitrophenol	0.14	U M Q	0.96	0.067	ug/L		03/21/22 09:43	03/23/22 23:08	1
3,3'-Dichlorobenzidine	0.57	U Q	0.96	0.25	ug/L		03/21/22 09:43	03/23/22 23:08	1
4,6-Dinitro-2-methylphenol	1.1	U M Q	1.9	0.53	ug/L		03/21/22 09:43	03/23/22 23:08	1
4-Bromophenyl phenyl ether	0.14	U	0.57	0.057	ug/L		03/21/22 09:43	03/23/22 23:08	1
4-Chloro-3-methylphenol	0.29	U M	0.57	0.12	ug/L		03/21/22 09:43	03/23/22 23:08	1
4-Chlorophenyl phenyl ether	0.14	U M	0.57	0.048	ug/L		03/21/22 09:43	03/23/22 23:08	1
4-Nitrophenol	5.7	U M Q	9.6	1.6	ug/L		03/21/22 09:43	03/23/22 23:08	1
Azobenzene	0.14	U	1.9	0.057	ug/L		03/21/22 09:43	03/23/22 23:08	1
bis (2-chloroisopropyl) ether	0.14	U	0.24	0.057	ug/L		03/21/22 09:43	03/23/22 23:08	1
Bis(2-chloroethoxy)methane	0.14	U M	0.57	0.048	ug/L		03/21/22 09:43	03/23/22 23:08	1
Bis(2-chloroethyl)ether	0.086	U M	0.096	0.029	ug/L		03/21/22 09:43	03/23/22 23:08	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2815 (RHMW01R)

Lab Sample ID: 580-111436-6

Date Collected: 03/15/22 10:20

Matrix: Water

Date Received: 03/16/22 14:59

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.5	U Q	2.9	0.71	ug/L		03/21/22 09:43	03/23/22 23:08	1
Butyl benzyl phthalate	0.57	U	3.8	0.26	ug/L		03/21/22 09:43	03/23/22 23:08	1
Diethyl phthalate	0.29	U M	0.96	0.14	ug/L		03/21/22 09:43	03/23/22 23:08	1
Dimethyl phthalate	0.14	U M	0.57	0.057	ug/L		03/21/22 09:43	03/23/22 23:08	1
Di-n-butyl phthalate	0.48	U	2.9	0.18	ug/L		03/21/22 09:43	03/23/22 23:08	1
Di-n-octyl phthalate	0.29	U M	0.96	0.12	ug/L		03/21/22 09:43	03/23/22 23:08	1
Hexachlorobenzene	0.086	U	0.57	0.038	ug/L		03/21/22 09:43	03/23/22 23:08	1
Hexachlorobutadiene	0.14	U Q	0.96	0.057	ug/L		03/21/22 09:43	03/23/22 23:08	1
Hexachlorocyclopentadiene	0.29	U Q	0.96	0.13	ug/L		03/21/22 09:43	03/23/22 23:08	1
Hexachloroethane	0.14	U Q	0.96	0.048	ug/L		03/21/22 09:43	03/23/22 23:08	1
Isophorone	0.29	U M	0.38	0.096	ug/L		03/21/22 09:43	03/23/22 23:08	1
m+p-Cresol	0.29	U	0.57	0.096	ug/L		03/21/22 09:43	03/23/22 23:08	1
Nitrobenzene	0.086	U M	0.96	0.038	ug/L		03/21/22 09:43	03/23/22 23:08	1
N-Nitrosodimethylamine	0.57	U	1.9	0.25	ug/L		03/21/22 09:43	03/23/22 23:08	1
N-Nitrosodi-n-propylamine	0.086	U M	0.38	0.057	ug/L		03/21/22 09:43	03/23/22 23:08	1
N-Nitrosodiphenylamine	0.14	U	0.96	0.067	ug/L		03/21/22 09:43	03/23/22 23:08	1
o-Cresol	0.14	U	0.57	0.048	ug/L		03/21/22 09:43	03/23/22 23:08	1
Pentachlorophenol	0.96	U Q	9.6	0.49	ug/L		03/21/22 09:43	03/23/22 23:08	1
Phenol	0.57	U	0.96	0.34	ug/L		03/21/22 09:43	03/23/22 23:08	1
Pyrene	0.086	U	0.96	0.038	ug/L		03/21/22 09:43	03/23/22 23:08	1
Pyridine	3.1	U Q	9.6	1.0	ug/L		03/21/22 09:43	03/23/22 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		43 - 140	03/21/22 09:43	03/23/22 23:08	1
2-Fluorobiphenyl	77		44 - 119	03/21/22 09:43	03/23/22 23:08	1
2-Fluorophenol (Surr)	59		19 - 119	03/21/22 09:43	03/23/22 23:08	1
Nitrobenzene-d5 (Surr)	79		44 - 120	03/21/22 09:43	03/23/22 23:08	1
Phenol-d5 (Surr)	43		10 - 120	03/21/22 09:43	03/23/22 23:08	1
Terphenyl-d14	95		50 - 134	03/21/22 09:43	03/23/22 23:08	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2775 (RHMW15-05)

Lab Sample ID: 580-111436-7

Date Collected: 03/14/22 09:45

Matrix: Water

Date Received: 03/16/22 14:59

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		03/18/22 10:55	03/21/22 16:39	1
2-Methylnaphthalene	0.080	U M	0.20	0.039	ug/L		03/18/22 10:55	03/21/22 16:39	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/18/22 10:55	03/21/22 16:39	1
Acenaphthylene	0.032	U	0.050	0.0091	ug/L		03/18/22 10:55	03/21/22 16:39	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/18/22 10:55	03/21/22 16:39	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/18/22 10:55	03/21/22 16:39	1
Benzo[a]pyrene	0.032	U M	0.10	0.011	ug/L		03/18/22 10:55	03/21/22 16:39	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/18/22 10:55	03/21/22 16:39	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/18/22 10:55	03/21/22 16:39	1
Benzo[k]fluoranthene	0.032	U M	0.050	0.012	ug/L		03/18/22 10:55	03/21/22 16:39	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/18/22 10:55	03/21/22 16:39	1
Dibenz(a,h)anthracene	0.032	U M	0.10	0.026	ug/L		03/18/22 10:55	03/21/22 16:39	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/18/22 10:55	03/21/22 16:39	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/18/22 10:55	03/21/22 16:39	1
Indeno[1,2,3-cd]pyrene	0.032	U M	0.050	0.014	ug/L		03/18/22 10:55	03/21/22 16:39	1
Naphthalene	0.080	U M	0.10	0.031	ug/L		03/18/22 10:55	03/21/22 16:39	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/18/22 10:55	03/21/22 16:39	1
Pyrene	0.080	U	0.10	0.033	ug/L		03/18/22 10:55	03/21/22 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	59		40 - 140	03/18/22 10:55	03/21/22 16:39	1
Fluoranthene-d10 (Surr)	97		40 - 140	03/18/22 10:55	03/21/22 16:39	1
Terphenyl-d14	107		58 - 132	03/18/22 10:55	03/21/22 16:39	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	0.091	ug/L		03/18/22 10:55	03/22/22 20:34	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/18/22 10:55	03/22/22 20:34	1
1,3-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/18/22 10:55	03/22/22 20:34	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/18/22 10:55	03/22/22 20:34	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/18/22 10:55	03/22/22 20:34	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/18/22 10:55	03/22/22 20:34	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/18/22 10:55	03/22/22 20:34	1
2-Nitrophenol	0.15	U M	1.0	0.070	ug/L		03/18/22 10:55	03/22/22 20:34	1
3,3'-Dichlorobenzidine	0.60	U Q	1.0	0.26	ug/L		03/18/22 10:55	03/22/22 20:34	1
4,6-Dinitro-2-methylphenol	1.2	U M	2.0	0.55	ug/L		03/18/22 10:55	03/22/22 20:34	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/18/22 10:55	03/22/22 20:34	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L		03/18/22 10:55	03/22/22 20:34	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/18/22 10:55	03/22/22 20:34	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/18/22 10:55	03/22/22 20:34	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/18/22 10:55	03/22/22 20:34	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.060	ug/L		03/18/22 10:55	03/22/22 20:34	1
Bis(2-chloroethoxy)methane	0.15	U M	0.60	0.050	ug/L		03/18/22 10:55	03/22/22 20:34	1
Bis(2-chloroethyl)ether	0.091	U	0.10	0.030	ug/L		03/18/22 10:55	03/22/22 20:34	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2775 (RHMW15-05)

Lab Sample ID: 580-111436-7

Date Collected: 03/14/22 09:45

Matrix: Water

Date Received: 03/16/22 14:59

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	3.0	0.74	ug/L		03/18/22 10:55	03/22/22 20:34	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/18/22 10:55	03/22/22 20:34	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/18/22 10:55	03/22/22 20:34	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/18/22 10:55	03/22/22 20:34	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/18/22 10:55	03/22/22 20:34	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/18/22 10:55	03/22/22 20:34	1
Hexachlorobenzene	0.091	U	0.60	0.040	ug/L		03/18/22 10:55	03/22/22 20:34	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L		03/18/22 10:55	03/22/22 20:34	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L		03/18/22 10:55	03/22/22 20:34	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/18/22 10:55	03/22/22 20:34	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/18/22 10:55	03/22/22 20:34	1
m+p-Cresol	0.30	U	0.60	0.10	ug/L		03/18/22 10:55	03/22/22 20:34	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/18/22 10:55	03/22/22 20:34	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/18/22 10:55	03/22/22 20:34	1
N-Nitrosodi-n-propylamine	0.091	U	0.40	0.060	ug/L		03/18/22 10:55	03/22/22 20:34	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.070	ug/L		03/18/22 10:55	03/22/22 20:34	1
o-Cresol	0.15	U	0.60	0.050	ug/L		03/18/22 10:55	03/22/22 20:34	1
Pentachlorophenol	1.0	U	10	0.51	ug/L		03/18/22 10:55	03/22/22 20:34	1
Phenol	0.60	U M	1.0	0.36	ug/L		03/18/22 10:55	03/22/22 20:34	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/18/22 10:55	03/22/22 20:34	1
Pyridine	3.2	U	10	1.1	ug/L		03/18/22 10:55	03/22/22 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		43 - 140	03/18/22 10:55	03/22/22 20:34	1
2-Fluorobiphenyl	57		44 - 119	03/18/22 10:55	03/22/22 20:34	1
2-Fluorophenol (Surr)	41		19 - 119	03/18/22 10:55	03/22/22 20:34	1
Nitrobenzene-d5 (Surr)	64		44 - 120	03/18/22 10:55	03/22/22 20:34	1
Phenol-d5 (Surr)	25		10 - 120	03/18/22 10:55	03/22/22 20:34	1
Terphenyl-d14	102		50 - 134	03/18/22 10:55	03/22/22 20:34	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2800 (RHMW14-3)

Lab Sample ID: 580-111436-8

Date Collected: 03/15/22 10:00

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/25/22 22:24	1
2-Methylnaphthalene	0.081	U M	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 22:24	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 22:24	1
Acenaphthylene	0.032	U	0.050	0.0091	ug/L		03/21/22 09:43	03/25/22 22:24	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 22:24	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 22:24	1
Benzo[a]pyrene	0.032	U M	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 22:24	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 22:24	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 22:24	1
Benzo[k]fluoranthene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 22:24	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 22:24	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 22:24	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 22:24	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 22:24	1
Indeno[1,2,3-cd]pyrene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 22:24	1
Naphthalene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 22:24	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 22:24	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	68		40 - 140	03/21/22 09:43	03/25/22 22:24	1
Fluoranthene-d10 (Surr)	100		40 - 140	03/21/22 09:43	03/25/22 22:24	1
Terphenyl-d14	113		58 - 132	03/21/22 09:43	03/25/22 22:24	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	0.091	ug/L		03/21/22 09:43	03/23/22 23:31	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 23:31	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 23:31	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,4,6-Trichlorophenol	0.30	U	0.61	0.10	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,4-Dimethylphenol	0.50	U M	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 23:31	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 23:31	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 23:31	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 23:31	1
2-Nitrophenol	0.15	U Q	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 23:31	1
3,3'-Dichlorobenzidine	0.61	U Q	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 23:31	1
4,6-Dinitro-2-methylphenol	1.2	U M Q	2.0	0.56	ug/L		03/21/22 09:43	03/23/22 23:31	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/21/22 09:43	03/23/22 23:31	1
4-Chloro-3-methylphenol	0.30	U M	0.61	0.13	ug/L		03/21/22 09:43	03/23/22 23:31	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 23:31	1
4-Nitrophenol	6.1	U Q	10	1.7	ug/L		03/21/22 09:43	03/23/22 23:31	1
Azobenzene	0.15	U M	2.0	0.061	ug/L		03/21/22 09:43	03/23/22 23:31	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.061	ug/L		03/21/22 09:43	03/23/22 23:31	1
Bis(2-chloroethoxy)methane	0.15	U	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 23:31	1
Bis(2-chloroethyl)ether	0.091	U M	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 23:31	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2800 (RHMW14-3)

Lab Sample ID: 580-111436-8

Date Collected: 03/15/22 10:00

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/23/22 23:31	1
Butyl benzyl phthalate	0.61	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 23:31	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 23:31	1
Dimethyl phthalate	0.15	U	0.61	0.061	ug/L		03/21/22 09:43	03/23/22 23:31	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 23:31	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 23:31	1
Hexachlorobenzene	0.091	U	0.61	0.040	ug/L		03/21/22 09:43	03/23/22 23:31	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/21/22 09:43	03/23/22 23:31	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 23:31	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 23:31	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 23:31	1
m+p-Cresol	0.30	U M	0.61	0.10	ug/L		03/21/22 09:43	03/23/22 23:31	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 23:31	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 23:31	1
N-Nitrosodi-n-propylamine	0.091	U	0.40	0.061	ug/L		03/21/22 09:43	03/23/22 23:31	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.071	ug/L		03/21/22 09:43	03/23/22 23:31	1
o-Cresol	0.15	U M	0.61	0.050	ug/L		03/21/22 09:43	03/23/22 23:31	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/21/22 09:43	03/23/22 23:31	1
Phenol	0.61	U M	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 23:31	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 23:31	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/21/22 09:43	03/23/22 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		43 - 140	03/21/22 09:43	03/23/22 23:31	1
2-Fluorobiphenyl	74		44 - 119	03/21/22 09:43	03/23/22 23:31	1
2-Fluorophenol (Surr)	53		19 - 119	03/21/22 09:43	03/23/22 23:31	1
Nitrobenzene-d5 (Surr)	78		44 - 120	03/21/22 09:43	03/23/22 23:31	1
Phenol-d5 (Surr)	37		10 - 120	03/21/22 09:43	03/23/22 23:31	1
Terphenyl-d14	114		50 - 134	03/21/22 09:43	03/23/22 23:31	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2821 (RHMW16)

Lab Sample ID: 580-111436-9

Date Collected: 03/15/22 10:40

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/25/22 22:49	1
2-Methylnaphthalene	0.081	U M	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 22:49	1
Acenaphthene	0.032	U M	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 22:49	1
Acenaphthylene	0.032	U M	0.050	0.0091	ug/L		03/21/22 09:43	03/25/22 22:49	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 22:49	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 22:49	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 22:49	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 22:49	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 22:49	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 22:49	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 22:49	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 22:49	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 22:49	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 22:49	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 22:49	1
Naphthalene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 22:49	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 22:49	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	72		40 - 140	03/21/22 09:43	03/25/22 22:49	1
Fluoranthene-d10 (Surr)	102		40 - 140	03/21/22 09:43	03/25/22 22:49	1
Terphenyl-d14	113		58 - 132	03/21/22 09:43	03/25/22 22:49	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	0.091	ug/L		03/21/22 09:43	03/23/22 23:54	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 23:54	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 23:54	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 23:54	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 23:54	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/21/22 09:43	03/23/22 23:54	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 23:54	1
2-Nitrophenol	0.15	U Q	1.0	0.070	ug/L		03/21/22 09:43	03/23/22 23:54	1
3,3'-Dichlorobenzidine	0.60	U Q	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 23:54	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/21/22 09:43	03/23/22 23:54	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 23:54	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/21/22 09:43	03/23/22 23:54	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 23:54	1
4-Nitrophenol	6.0	U Q	10	1.7	ug/L		03/21/22 09:43	03/23/22 23:54	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/21/22 09:43	03/23/22 23:54	1
bis (2-chloroisopropyl) ether	0.15	U	0.25	0.060	ug/L		03/21/22 09:43	03/23/22 23:54	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 23:54	1
Bis(2-chloroethyl)ether	0.091	U M	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 23:54	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2821 (RHMW16)

Lab Sample ID: 580-111436-9

Date Collected: 03/15/22 10:40

Matrix: Water

Date Received: 03/16/22 14:59

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		03/21/22 09:43	03/23/22 23:54	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 23:54	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 23:54	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 23:54	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 23:54	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 23:54	1
Hexachlorobenzene	0.091	U	0.60	0.040	ug/L		03/21/22 09:43	03/23/22 23:54	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/21/22 09:43	03/23/22 23:54	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 23:54	1
Hexachloroethane	0.15	U M Q	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 23:54	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 23:54	1
m+p-Cresol	0.30	U M	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 23:54	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 23:54	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 23:54	1
N-Nitrosodi-n-propylamine	0.091	U M	0.40	0.060	ug/L		03/21/22 09:43	03/23/22 23:54	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/21/22 09:43	03/23/22 23:54	1
o-Cresol	0.15	U M	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 23:54	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/21/22 09:43	03/23/22 23:54	1
Phenol	0.60	U M	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 23:54	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 23:54	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/21/22 09:43	03/23/22 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		43 - 140	03/21/22 09:43	03/23/22 23:54	1
2-Fluorobiphenyl	78		44 - 119	03/21/22 09:43	03/23/22 23:54	1
2-Fluorophenol (Surr)	55		19 - 119	03/21/22 09:43	03/23/22 23:54	1
Nitrobenzene-d5 (Surr)	78		44 - 120	03/21/22 09:43	03/23/22 23:54	1
Phenol-d5 (Surr)	42		10 - 120	03/21/22 09:43	03/23/22 23:54	1
Terphenyl-d14	113		50 - 134	03/21/22 09:43	03/23/22 23:54	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: MB 580-384314/1-A
Matrix: Water
Analysis Batch: 384624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384314

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		03/18/22 10:55	03/22/22 18:12	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/18/22 10:55	03/22/22 18:12	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/18/22 10:55	03/22/22 18:12	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/18/22 10:55	03/22/22 18:12	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/18/22 10:55	03/22/22 18:12	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/18/22 10:55	03/22/22 18:12	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/18/22 10:55	03/22/22 18:12	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/18/22 10:55	03/22/22 18:12	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/18/22 10:55	03/22/22 18:12	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/18/22 10:55	03/22/22 18:12	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/18/22 10:55	03/22/22 18:12	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L		03/18/22 10:55	03/22/22 18:12	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/18/22 10:55	03/22/22 18:12	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/18/22 10:55	03/22/22 18:12	1
Azobenzene	0.15	U	2.0	0.060	ug/L		03/18/22 10:55	03/22/22 18:12	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.060	ug/L		03/18/22 10:55	03/22/22 18:12	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/18/22 10:55	03/22/22 18:12	1
Bis(2-chloroethyl)ether	0.090	U M	0.10	0.030	ug/L		03/18/22 10:55	03/22/22 18:12	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/18/22 10:55	03/22/22 18:12	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/18/22 10:55	03/22/22 18:12	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/18/22 10:55	03/22/22 18:12	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/18/22 10:55	03/22/22 18:12	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/18/22 10:55	03/22/22 18:12	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/18/22 10:55	03/22/22 18:12	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/18/22 10:55	03/22/22 18:12	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L		03/18/22 10:55	03/22/22 18:12	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L		03/18/22 10:55	03/22/22 18:12	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/18/22 10:55	03/22/22 18:12	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/18/22 10:55	03/22/22 18:12	1
m+p-Cresol	0.30	U M	0.60	0.10	ug/L		03/18/22 10:55	03/22/22 18:12	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L		03/18/22 10:55	03/22/22 18:12	1
N-Nitrosodimethylamine	0.60	U M	2.0	0.26	ug/L		03/18/22 10:55	03/22/22 18:12	1
N-Nitrosodi-n-propylamine	0.090	U	0.40	0.060	ug/L		03/18/22 10:55	03/22/22 18:12	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/18/22 10:55	03/22/22 18:12	1
o-Cresol	0.15	U M	0.60	0.050	ug/L		03/18/22 10:55	03/22/22 18:12	1
Pentachlorophenol	1.0	U	10	0.51	ug/L		03/18/22 10:55	03/22/22 18:12	1
Phenol	0.60	U M	1.0	0.36	ug/L		03/18/22 10:55	03/22/22 18:12	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/18/22 10:55	03/22/22 18:12	1
Pyridine	3.2	U	10	1.1	ug/L		03/18/22 10:55	03/22/22 18:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	68		43 - 140	03/18/22 10:55	03/22/22 18:12	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: MB 580-384314/1-A
Matrix: Water
Analysis Batch: 384624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384314

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	78		44 - 119	03/18/22 10:55	03/22/22 18:12	1
2-Fluorophenol (Surr)	57		19 - 119	03/18/22 10:55	03/22/22 18:12	1
Nitrobenzene-d5 (Surr)	88		44 - 120	03/18/22 10:55	03/22/22 18:12	1
Phenol-d5 (Surr)	39		10 - 120	03/18/22 10:55	03/22/22 18:12	1
Terphenyl-d14	107		50 - 134	03/18/22 10:55	03/22/22 18:12	1

Lab Sample ID: LCS 580-384314/2-A
Matrix: Water
Analysis Batch: 384624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.00	1.06		ug/L		53	29 - 116
1,2-Dichlorobenzene	2.00	0.978		ug/L		49	32 - 111
1,3-Dichlorobenzene	2.00	0.929		ug/L		46	28 - 110
1,4-Dichlorobenzene	2.00	0.939		ug/L		47	29 - 112
2,4,5-Trichlorophenol	2.00	1.48		ug/L		74	53 - 123
2,4,6-Trichlorophenol	2.00	1.55		ug/L		77	50 - 125
2,4-Dichlorophenol	2.00	1.56		ug/L		78	47 - 121
2,4-Dimethylphenol	2.00	1.52	J	ug/L		76	31 - 124
2,4-Dinitrophenol	4.00	3.14	J M	ug/L		78	23 - 143
2,4-Dinitrotoluene	2.00	1.68		ug/L		84	57 - 128
2,6-Dinitrotoluene	2.00	1.66		ug/L		83	57 - 124
2-Chloronaphthalene	2.00	1.44		ug/L		72	40 - 116
2-Chlorophenol	2.00	1.45		ug/L		73	38 - 117
2-Nitrophenol	2.00	1.58		ug/L		79	47 - 123
3,3'-Dichlorobenzidine	4.00	4.39		ug/L		110	27 - 129
4,6-Dinitro-2-methylphenol	4.00	2.99		ug/L		75	44 - 137
4-Bromophenyl phenyl ether	2.00	1.57		ug/L		79	55 - 124
4-Chloro-3-methylphenol	2.00	1.79		ug/L		89	52 - 119
4-Chlorophenyl phenyl ether	2.00	1.70		ug/L		85	53 - 121
4-Nitrophenol	4.00	2.14	J M	ug/L		54	35 - 145
Azobenzene	2.00	1.78	J	ug/L		89	61 - 116
bis (2-chloroisopropyl) ether	2.00	1.59		ug/L		80	37 - 130
Bis(2-chloroethoxy)methane	2.00	1.54		ug/L		77	48 - 120
Bis(2-chloroethyl)ether	2.00	1.45		ug/L		72	43 - 118
Bis(2-ethylhexyl) phthalate	2.00	2.11	J	ug/L		106	55 - 135
Butyl benzyl phthalate	2.00	1.98	J	ug/L		99	53 - 134
Diethyl phthalate	2.00	1.95		ug/L		98	56 - 125
Dimethyl phthalate	2.00	1.84		ug/L		92	45 - 127
Di-n-butyl phthalate	2.00	1.87	J	ug/L		93	59 - 127
Di-n-octyl phthalate	2.00	1.74		ug/L		87	51 - 140
Hexachlorobenzene	2.00	1.47		ug/L		73	53 - 125
Hexachlorobutadiene	2.00	0.820	J	ug/L		41	22 - 124
Hexachlorocyclopentadiene	2.00	0.952	J	ug/L		48	20 - 125
Hexachloroethane	2.00	0.812	J	ug/L		41	21 - 115
Isophorone	2.00	1.69		ug/L		85	42 - 124
m+p-Cresol	2.00	1.33		ug/L		66	29 - 110
Nitrobenzene	2.00	1.53		ug/L		76	45 - 121

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCS 580-384314/2-A
Matrix: Water
Analysis Batch: 384624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
N-Nitrosodimethylamine	2.00	1.29	J	ug/L		64	45 - 125	
N-Nitrosodi-n-propylamine	2.00	1.49		ug/L		74	49 - 119	
N-Nitrosodiphenylamine	2.00	1.61		ug/L		81	51 - 123	
o-Cresol	2.00	1.36		ug/L		68	30 - 117	
Pentachlorophenol	4.00	2.47	J	ug/L		62	35 - 138	
Phenol	2.00	0.820	J	ug/L		41	13 - 120	
Pyrene	2.00	1.74		ug/L		87	57 - 126	
Pyridine	4.00	1.24	J	ug/L		31	20 - 125	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		43 - 140
2-Fluorobiphenyl	78		44 - 119
2-Fluorophenol (Surr)	53		19 - 119
Nitrobenzene-d5 (Surr)	82		44 - 120
Phenol-d5 (Surr)	36		10 - 120
Terphenyl-d14	101		50 - 134

Lab Sample ID: LCSD 580-384314/3-A
Matrix: Water
Analysis Batch: 384624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384314

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
1,2,4-Trichlorobenzene	2.00	1.13		ug/L		56	29 - 116	6	20	
1,2-Dichlorobenzene	2.00	1.12		ug/L		56	32 - 111	13	20	
1,3-Dichlorobenzene	2.00	1.09		ug/L		54	28 - 110	16	20	
1,4-Dichlorobenzene	2.00	1.09		ug/L		54	29 - 112	15	20	
2,4,5-Trichlorophenol	2.00	1.29		ug/L		65	53 - 123	14	20	
2,4,6-Trichlorophenol	2.00	1.38		ug/L		69	50 - 125	12	20	
2,4-Dichlorophenol	2.00	1.63		ug/L		81	47 - 121	4	20	
2,4-Dimethylphenol	2.00	1.57	J	ug/L		79	31 - 124	4	20	
2,4-Dinitrophenol	4.00	3.35	J M	ug/L		84	23 - 143	7	20	
2,4-Dinitrotoluene	2.00	1.61		ug/L		81	57 - 128	4	20	
2,6-Dinitrotoluene	2.00	1.60		ug/L		80	57 - 124	4	20	
2-Chloronaphthalene	2.00	1.38		ug/L		69	40 - 116	4	20	
2-Chlorophenol	2.00	1.59		ug/L		80	38 - 117	9	20	
2-Nitrophenol	2.00	1.73		ug/L		87	47 - 123	9	20	
3,3'-Dichlorobenzidine	4.00	3.44	Q	ug/L		86	27 - 129	24	20	
4,6-Dinitro-2-methylphenol	4.00	3.24		ug/L		81	44 - 137	8	20	
4-Bromophenyl phenyl ether	2.00	1.59		ug/L		80	55 - 124	1	20	
4-Chloro-3-methylphenol	2.00	1.54		ug/L		77	52 - 119	15	20	
4-Chlorophenyl phenyl ether	2.00	1.59		ug/L		80	53 - 121	6	20	
4-Nitrophenol	4.00	1.87	J	ug/L		47	35 - 145	13	20	
Azobenzene	2.00	1.76	J	ug/L		88	61 - 116	1	20	
bis (2-chloroisopropyl) ether	2.00	1.70		ug/L		85	37 - 130	7	20	
Bis(2-chloroethoxy)methane	2.00	1.69		ug/L		85	48 - 120	9	20	
Bis(2-chloroethyl)ether	2.00	1.56		ug/L		78	43 - 118	7	20	
Bis(2-ethylhexyl) phthalate	2.00	2.09	J	ug/L		105	55 - 135	1	20	
Butyl benzyl phthalate	2.00	1.90	J	ug/L		95	53 - 134	4	20	

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCSD 580-384314/3-A
Matrix: Water
Analysis Batch: 384624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384314

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate	2.00	1.78		ug/L		89	56 - 125	9	20
Dimethyl phthalate	2.00	1.66		ug/L		83	45 - 127	10	20
Di-n-butyl phthalate	2.00	1.88	J	ug/L		94	59 - 127	1	20
Di-n-octyl phthalate	2.00	1.68		ug/L		84	51 - 140	3	20
Hexachlorobenzene	2.00	1.53		ug/L		77	53 - 125	4	20
Hexachlorobutadiene	2.00	0.949	J	ug/L		47	22 - 124	15	20
Hexachlorocyclopentadiene	2.00	0.998	J	ug/L		50	20 - 125	5	20
Hexachloroethane	2.00	1.01	Q	ug/L		51	21 - 115	22	20
Isophorone	2.00	1.76		ug/L		88	42 - 124	4	20
m+p-Cresol	2.00	1.37		ug/L		68	29 - 110	3	20
Nitrobenzene	2.00	1.60		ug/L		80	45 - 121	5	20
N-Nitrosodimethylamine	2.00	1.39	J	ug/L		69	45 - 125	8	20
N-Nitrosodi-n-propylamine	2.00	1.62		ug/L		81	49 - 119	8	20
N-Nitrosodiphenylamine	2.00	1.66		ug/L		83	51 - 123	3	20
o-Cresol	2.00	1.50		ug/L		75	30 - 117	9	20
Pentachlorophenol	4.00	2.98	J	ug/L		74	35 - 138	19	20
Phenol	2.00	0.866	J	ug/L		43	13 - 120	5	20
Pyrene	2.00	1.76		ug/L		88	57 - 126	1	20
Pyridine	4.00	1.25	J	ug/L		31	20 - 125	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	81		43 - 140
2-Fluorobiphenyl	68		44 - 119
2-Fluorophenol (Surr)	54		19 - 119
Nitrobenzene-d5 (Surr)	78		44 - 120
Phenol-d5 (Surr)	38		10 - 120
Terphenyl-d14	97		50 - 134

Lab Sample ID: MB 580-384501/1-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384501

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		03/21/22 09:43	03/23/22 05:13	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/21/22 09:43	03/23/22 05:13	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 05:13	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/21/22 09:43	03/23/22 05:13	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 05:13	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/21/22 09:43	03/23/22 05:13	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 05:13	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/21/22 09:43	03/23/22 05:13	1
3,3'-Dichlorobenzidine	0.60	U M	1.0	0.26	ug/L		03/21/22 09:43	03/23/22 05:13	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: MB 580-384501/1-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384501

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/21/22 09:43	03/23/22 05:13	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 05:13	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/21/22 09:43	03/23/22 05:13	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 05:13	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/21/22 09:43	03/23/22 05:13	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/21/22 09:43	03/23/22 05:13	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.060	ug/L		03/21/22 09:43	03/23/22 05:13	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 05:13	1
Bis(2-chloroethyl)ether	0.090	U M	0.10	0.030	ug/L		03/21/22 09:43	03/23/22 05:13	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/21/22 09:43	03/23/22 05:13	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/21/22 09:43	03/23/22 05:13	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/21/22 09:43	03/23/22 05:13	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/21/22 09:43	03/23/22 05:13	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/21/22 09:43	03/23/22 05:13	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/21/22 09:43	03/23/22 05:13	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/21/22 09:43	03/23/22 05:13	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L		03/21/22 09:43	03/23/22 05:13	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L		03/21/22 09:43	03/23/22 05:13	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/21/22 09:43	03/23/22 05:13	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/21/22 09:43	03/23/22 05:13	1
m+p-Cresol	0.30	U M	0.60	0.10	ug/L		03/21/22 09:43	03/23/22 05:13	1
Nitrobenzene	0.090	U M	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 05:13	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/21/22 09:43	03/23/22 05:13	1
N-Nitrosodi-n-propylamine	0.090	U M	0.40	0.060	ug/L		03/21/22 09:43	03/23/22 05:13	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/21/22 09:43	03/23/22 05:13	1
o-Cresol	0.15	U	0.60	0.050	ug/L		03/21/22 09:43	03/23/22 05:13	1
Pentachlorophenol	1.0	U	10	0.51	ug/L		03/21/22 09:43	03/23/22 05:13	1
Phenol	0.60	U M	1.0	0.36	ug/L		03/21/22 09:43	03/23/22 05:13	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/21/22 09:43	03/23/22 05:13	1
Pyridine	3.2	U M	10	1.1	ug/L		03/21/22 09:43	03/23/22 05:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	67		43 - 140	03/21/22 09:43	03/23/22 05:13	1
2-Fluorobiphenyl	70		44 - 119	03/21/22 09:43	03/23/22 05:13	1
2-Fluorophenol (Surr)	55		19 - 119	03/21/22 09:43	03/23/22 05:13	1
Nitrobenzene-d5 (Surr)	71		44 - 120	03/21/22 09:43	03/23/22 05:13	1
Phenol-d5 (Surr)	21		10 - 120	03/21/22 09:43	03/23/22 05:13	1
Terphenyl-d14	93		50 - 134	03/21/22 09:43	03/23/22 05:13	1

Lab Sample ID: LCS 580-384501/2-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	2.00	1.34		ug/L		67	32 - 111
1,3-Dichlorobenzene	2.00	1.32		ug/L		66	28 - 110
1,4-Dichlorobenzene	2.00	1.28		ug/L		64	29 - 112

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCS 580-384501/2-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	2.00	1.54		ug/L		77	53 - 123
2,4,6-Trichlorophenol	2.00	1.64		ug/L		82	50 - 125
2,4-Dichlorophenol	2.00	1.68		ug/L		84	47 - 121
2,4-Dimethylphenol	2.00	1.66	J M	ug/L		83	31 - 124
2,4-Dinitrophenol	4.00	3.01	J M	ug/L		75	23 - 143
2,4-Dinitrotoluene	2.00	1.77		ug/L		89	57 - 128
2,6-Dinitrotoluene	2.00	1.80		ug/L		90	57 - 124
2-Chloronaphthalene	2.00	1.60		ug/L		80	40 - 116
2-Chlorophenol	2.00	1.56		ug/L		78	38 - 117
2-Nitrophenol	2.00	1.70		ug/L		85	47 - 123
3,3'-Dichlorobenzidine	4.00	4.47		ug/L		112	27 - 129
4,6-Dinitro-2-methylphenol	4.00	3.00		ug/L		75	44 - 137
4-Bromophenyl phenyl ether	2.00	1.64		ug/L		82	55 - 124
4-Chloro-3-methylphenol	2.00	1.77		ug/L		88	52 - 119
4-Chlorophenyl phenyl ether	2.00	1.73		ug/L		87	53 - 121
4-Nitrophenol	4.00	2.78	J M	ug/L		70	35 - 145
Azobenzene	2.00	1.74	J	ug/L		87	61 - 116
bis (2-chloroisopropyl) ether	2.00	1.69		ug/L		84	37 - 130
Bis(2-chloroethoxy)methane	2.00	1.63		ug/L		81	48 - 120
Bis(2-chloroethyl)ether	2.00	1.55		ug/L		78	43 - 118
Bis(2-ethylhexyl) phthalate	2.00	2.62	J	ug/L		131	55 - 135
Butyl benzyl phthalate	2.00	1.96	J	ug/L		98	53 - 134
Diethyl phthalate	2.00	1.79		ug/L		89	56 - 125
Dimethyl phthalate	2.00	1.82		ug/L		91	45 - 127
Di-n-butyl phthalate	2.00	1.89	J	ug/L		94	59 - 127
Di-n-octyl phthalate	2.00	1.83		ug/L		92	51 - 140
Hexachlorobenzene	2.00	1.60		ug/L		80	53 - 125
Hexachlorobutadiene	2.00	1.26		ug/L		63	22 - 124
Hexachlorocyclopentadiene	2.00	1.49		ug/L		75	20 - 125
Hexachloroethane	2.00	1.27		ug/L		63	21 - 115
Isophorone	2.00	1.72		ug/L		86	42 - 124
m+p-Cresol	2.00	1.48		ug/L		74	29 - 110
Nitrobenzene	2.00	1.61		ug/L		81	45 - 121
N-Nitrosodimethylamine	2.00	1.30	J	ug/L		65	45 - 125
N-Nitrosodi-n-propylamine	2.00	1.60		ug/L		80	49 - 119
N-Nitrosodiphenylamine	2.00	1.67		ug/L		84	51 - 123
o-Cresol	2.00	1.60		ug/L		80	30 - 117
Pentachlorophenol	4.00	2.72	J	ug/L		68	35 - 138
Phenol	2.00	0.894	J M	ug/L		45	13 - 120
Pyrene	2.00	1.73		ug/L		86	57 - 126
Pyridine	4.00	2.12	J	ug/L		53	20 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		43 - 140
2-Fluorobiphenyl	75		44 - 119
2-Fluorophenol (Surr)	55		19 - 119
Nitrobenzene-d5 (Surr)	80		44 - 120
Phenol-d5 (Surr)	41		10 - 120

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCS 580-384501/2-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384501

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	94		50 - 134

Lab Sample ID: LCSD 580-384501/3-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.21		ug/L		60	29 - 116	13	20
1,2-Dichlorobenzene	2.00	1.14		ug/L		57	32 - 111	16	20
1,3-Dichlorobenzene	2.00	1.06	Q	ug/L		53	28 - 110	22	20
1,4-Dichlorobenzene	2.00	1.08		ug/L		54	29 - 112	17	20
2,4,5-Trichlorophenol	2.00	1.46		ug/L		73	53 - 123	5	20
2,4,6-Trichlorophenol	2.00	1.38		ug/L		69	50 - 125	17	20
2,4-Dichlorophenol	2.00	1.45		ug/L		73	47 - 121	14	20
2,4-Dimethylphenol	2.00	1.48	J	ug/L		74	31 - 124	12	20
2,4-Dinitrophenol	4.00	1.66	J M Q	ug/L		42	23 - 143	58	20
2,4-Dinitrotoluene	2.00	1.68		ug/L		84	57 - 128	6	20
2,6-Dinitrotoluene	2.00	1.68		ug/L		84	57 - 124	7	20
2-Chloronaphthalene	2.00	1.53		ug/L		76	40 - 116	5	20
2-Chlorophenol	2.00	1.27		ug/L		64	38 - 117	20	20
2-Nitrophenol	2.00	1.24	Q	ug/L		62	47 - 123	32	20
3,3'-Dichlorobenzidine	4.00	4.10		ug/L		103	27 - 129	9	20
4,6-Dinitro-2-methylphenol	4.00	1.34	J Q	ug/L		33	44 - 137	77	20
4-Bromophenyl phenyl ether	2.00	1.54		ug/L		77	55 - 124	7	20
4-Chloro-3-methylphenol	2.00	1.66		ug/L		83	52 - 119	6	20
4-Chlorophenyl phenyl ether	2.00	1.70		ug/L		85	53 - 121	2	20
4-Nitrophenol	4.00	6.0	U Q	ug/L		39	35 - 145	55	20
Azobenzene	2.00	1.67	J	ug/L		83	61 - 116	4	20
bis (2-chloroisopropyl) ether	2.00	1.52		ug/L		76	37 - 130	10	20
Bis(2-chloroethoxy)methane	2.00	1.55		ug/L		78	48 - 120	5	20
Bis(2-chloroethyl)ether	2.00	1.49		ug/L		74	43 - 118	4	20
Bis(2-ethylhexyl) phthalate	2.00	3.27	Q	ug/L		163	55 - 135	22	20
Butyl benzyl phthalate	2.00	2.10	J	ug/L		105	53 - 134	7	20
Diethyl phthalate	2.00	1.91		ug/L		95	56 - 125	6	20
Dimethyl phthalate	2.00	1.83		ug/L		91	45 - 127	0	20
Di-n-butyl phthalate	2.00	2.11	J	ug/L		105	59 - 127	11	20
Di-n-octyl phthalate	2.00	2.01		ug/L		101	51 - 140	9	20
Hexachlorobenzene	2.00	1.47		ug/L		74	53 - 125	8	20
Hexachlorobutadiene	2.00	1.01	Q	ug/L		50	22 - 124	22	20
Hexachlorocyclopentadiene	2.00	1.18	Q	ug/L		59	20 - 125	23	20
Hexachloroethane	2.00	1.02	Q	ug/L		51	21 - 115	22	20
Isophorone	2.00	1.61		ug/L		81	42 - 124	6	20
m+p-Cresol	2.00	1.45		ug/L		72	29 - 110	2	20
Nitrobenzene	2.00	1.50		ug/L		75	45 - 121	7	20
N-Nitrosodimethylamine	2.00	1.24	J	ug/L		62	45 - 125	5	20
N-Nitrosodi-n-propylamine	2.00	1.51		ug/L		75	49 - 119	6	20
N-Nitrosodiphenylamine	2.00	1.57		ug/L		79	51 - 123	6	20
o-Cresol	2.00	1.52		ug/L		76	30 - 117	5	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCSD 580-384501/3-A
Matrix: Water
Analysis Batch: 384789

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	4.00	1.98	J Q	ug/L		49	35 - 138	32	20
Phenol	2.00	0.767	J M	ug/L		38	13 - 120	15	20
Pyrene	2.00	1.72		ug/L		86	57 - 126	1	20
Pyridine	4.00	1.42	J Q	ug/L		35	20 - 125	39	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	74		43 - 140
2-Fluorobiphenyl	74		44 - 119
2-Fluorophenol (Surr)	44		19 - 119
Nitrobenzene-d5 (Surr)	76		44 - 120
Phenol-d5 (Surr)	36		10 - 120
Terphenyl-d14	93		50 - 134

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

Lab Sample ID: MB 580-384314/1-A
Matrix: Water
Analysis Batch: 384521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384314

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U M	0.10	0.019	ug/L		03/18/22 10:55	03/21/22 12:29	1
2-Methylnaphthalene	0.080	U M	0.20	0.039	ug/L		03/18/22 10:55	03/21/22 12:29	1
Acenaphthene	0.032	U M	0.10	0.014	ug/L		03/18/22 10:55	03/21/22 12:29	1
Acenaphthylene	0.032	U	0.050	0.0090	ug/L		03/18/22 10:55	03/21/22 12:29	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/18/22 10:55	03/21/22 12:29	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/18/22 10:55	03/21/22 12:29	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/18/22 10:55	03/21/22 12:29	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/18/22 10:55	03/21/22 12:29	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/18/22 10:55	03/21/22 12:29	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/18/22 10:55	03/21/22 12:29	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/18/22 10:55	03/21/22 12:29	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/18/22 10:55	03/21/22 12:29	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/18/22 10:55	03/21/22 12:29	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/18/22 10:55	03/21/22 12:29	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/18/22 10:55	03/21/22 12:29	1
Naphthalene	0.080	U M	0.10	0.031	ug/L		03/18/22 10:55	03/21/22 12:29	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/18/22 10:55	03/21/22 12:29	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/18/22 10:55	03/21/22 12:29	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	76		40 - 140	03/18/22 10:55	03/21/22 12:29	1
Fluoranthene-d10 (Surr)	102		40 - 140	03/18/22 10:55	03/21/22 12:29	1
Terphenyl-d14	110		58 - 132	03/18/22 10:55	03/21/22 12:29	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCS 580-384314/2-A
Matrix: Water
Analysis Batch: 384521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384314
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	2.00	1.32		ug/L		66	41 - 115
2-Methylnaphthalene	2.00	1.25		ug/L		63	39 - 114
Acenaphthene	2.00	1.50		ug/L		75	48 - 114
Acenaphthylene	2.00	1.42		ug/L		71	35 - 121
Anthracene	2.00	1.61		ug/L		81	53 - 119
Benzo[a]anthracene	2.00	1.71		ug/L		85	59 - 120
Benzo[a]pyrene	2.00	1.59		ug/L		80	53 - 120
Benzo[b]fluoranthene	2.00	1.72		ug/L		86	53 - 126
Benzo[g,h,i]perylene	2.00	1.84		ug/L		92	44 - 128
Benzo[k]fluoranthene	2.00	1.78		ug/L		89	54 - 125
Chrysene	2.00	1.67		ug/L		83	57 - 120
Dibenz(a,h)anthracene	2.00	1.83	M	ug/L		92	44 - 131
Fluoranthene	2.00	1.83		ug/L		91	58 - 120
Fluorene	2.00	1.65		ug/L		82	50 - 118
Indeno[1,2,3-cd]pyrene	2.00	1.83	M	ug/L		91	48 - 130
Naphthalene	2.00	1.32		ug/L		66	43 - 114
Phenanthrene	2.00	1.61		ug/L		80	53 - 115
Pyrene	2.00	1.80		ug/L		90	53 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-methylnaphthalene-d10	72		40 - 140
Fluoranthene-d10 (Surr)	92		40 - 140
Terphenyl-d14	101		58 - 132

Lab Sample ID: LCSD 580-384314/3-A
Matrix: Water
Analysis Batch: 384521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384314
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1-Methylnaphthalene	2.00	1.36		ug/L		68	41 - 115	3	20
2-Methylnaphthalene	2.00	1.30		ug/L		65	39 - 114	4	20
Acenaphthene	2.00	1.53		ug/L		76	48 - 114	2	20
Acenaphthylene	2.00	1.45		ug/L		73	35 - 121	2	20
Anthracene	2.00	1.66		ug/L		83	53 - 119	3	20
Benzo[a]anthracene	2.00	1.75		ug/L		88	59 - 120	3	20
Benzo[a]pyrene	2.00	1.63		ug/L		82	53 - 120	3	20
Benzo[b]fluoranthene	2.00	1.74		ug/L		87	53 - 126	2	20
Benzo[g,h,i]perylene	2.00	1.85		ug/L		92	44 - 128	0	20
Benzo[k]fluoranthene	2.00	1.83		ug/L		91	54 - 125	3	20
Chrysene	2.00	1.72		ug/L		86	57 - 120	3	20
Dibenz(a,h)anthracene	2.00	1.84	M	ug/L		92	44 - 131	1	20
Fluoranthene	2.00	1.89		ug/L		95	58 - 120	4	20
Fluorene	2.00	1.68		ug/L		84	50 - 118	2	20
Indeno[1,2,3-cd]pyrene	2.00	1.84	M	ug/L		92	48 - 130	1	20
Naphthalene	2.00	1.35		ug/L		67	43 - 114	2	20
Phenanthrene	2.00	1.66		ug/L		83	53 - 115	3	20
Pyrene	2.00	1.84		ug/L		92	53 - 121	2	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCSD 580-384314/3-A
Matrix: Water
Analysis Batch: 384521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384314

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-methylnaphthalene-d10	69		40 - 140
Fluoranthene-d10 (Surr)	94		40 - 140
Terphenyl-d14	101		58 - 132

Lab Sample ID: MB 580-384501/1-A
Matrix: Water
Analysis Batch: 385175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384501

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	0.032	U M	0.10	0.019	ug/L		03/21/22 09:43	03/25/22 17:54	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/21/22 09:43	03/25/22 17:54	1
Acenaphthene	0.032	U M	0.10	0.014	ug/L		03/21/22 09:43	03/25/22 17:54	1
Acenaphthylene	0.032	U M	0.050	0.0090	ug/L		03/21/22 09:43	03/25/22 17:54	1
Anthracene	0.080	U M	0.10	0.022	ug/L		03/21/22 09:43	03/25/22 17:54	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 17:54	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/21/22 09:43	03/25/22 17:54	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/21/22 09:43	03/25/22 17:54	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 17:54	1
Benzo[k]fluoranthene	0.032	U M	0.050	0.012	ug/L		03/21/22 09:43	03/25/22 17:54	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/21/22 09:43	03/25/22 17:54	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/21/22 09:43	03/25/22 17:54	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/21/22 09:43	03/25/22 17:54	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/21/22 09:43	03/25/22 17:54	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/21/22 09:43	03/25/22 17:54	1
Naphthalene	0.080	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 17:54	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/21/22 09:43	03/25/22 17:54	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/21/22 09:43	03/25/22 17:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-methylnaphthalene-d10	66		40 - 140	03/21/22 09:43	03/25/22 17:54	1
Fluoranthene-d10 (Surr)	87		40 - 140	03/21/22 09:43	03/25/22 17:54	1
Terphenyl-d14	100		58 - 132	03/21/22 09:43	03/25/22 17:54	1

Lab Sample ID: LCS 580-384501/2-A
Matrix: Water
Analysis Batch: 385175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
1-Methylnaphthalene	2.00	1.58		ug/L		79	41 - 115
2-Methylnaphthalene	2.00	1.59		ug/L		79	39 - 114
Acenaphthene	2.00	1.62		ug/L		81	48 - 114
Acenaphthylene	2.00	1.68		ug/L		84	35 - 121
Anthracene	2.00	1.74		ug/L		87	53 - 119
Benzo[a]anthracene	2.00	1.90		ug/L		95	59 - 120
Benzo[a]pyrene	2.00	1.88		ug/L		94	53 - 120
Benzo[b]fluoranthene	2.00	1.85		ug/L		93	53 - 126
Benzo[g,h,i]perylene	2.00	1.78		ug/L		89	44 - 128
Benzo[k]fluoranthene	2.00	1.84		ug/L		92	54 - 125

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

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

Lab Sample ID: LCS 580-384501/2-A
Matrix: Water
Analysis Batch: 385175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	2.00	1.67		ug/L		83	57 - 120
Dibenz(a,h)anthracene	2.00	1.80		ug/L		90	44 - 131
Fluoranthene	2.00	1.89		ug/L		94	58 - 120
Fluorene	2.00	1.79		ug/L		90	50 - 118
Indeno[1,2,3-cd]pyrene	2.00	1.67		ug/L		84	48 - 130
Naphthalene	2.00	1.49		ug/L		74	43 - 114
Phenanthrene	2.00	1.70		ug/L		85	53 - 115
Pyrene	2.00	1.81		ug/L		90	53 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-methylnaphthalene-d10	72		40 - 140
Fluoranthene-d10 (Surr)	86		40 - 140
Terphenyl-d14	98		58 - 132

Lab Sample ID: LCSD 580-384501/3-A
Matrix: Water
Analysis Batch: 385175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	2.00	1.47		ug/L		74	41 - 115	7	20
2-Methylnaphthalene	2.00	1.48		ug/L		74	39 - 114	7	20
Acenaphthene	2.00	1.57		ug/L		78	48 - 114	3	20
Acenaphthylene	2.00	1.65		ug/L		83	35 - 121	2	20
Anthracene	2.00	1.74		ug/L		87	53 - 119	0	20
Benzo[a]anthracene	2.00	1.99		ug/L		99	59 - 120	4	20
Benzo[a]pyrene	2.00	1.90		ug/L		95	53 - 120	1	20
Benzo[b]fluoranthene	2.00	1.85		ug/L		93	53 - 126	0	20
Benzo[g,h,i]perylene	2.00	1.85		ug/L		92	44 - 128	4	20
Benzo[k]fluoranthene	2.00	1.88		ug/L		94	54 - 125	3	20
Chrysene	2.00	1.76		ug/L		88	57 - 120	5	20
Dibenz(a,h)anthracene	2.00	1.88		ug/L		94	44 - 131	4	20
Fluoranthene	2.00	1.93		ug/L		97	58 - 120	2	20
Fluorene	2.00	1.77		ug/L		88	50 - 118	2	20
Indeno[1,2,3-cd]pyrene	2.00	1.89		ug/L		95	48 - 130	12	20
Naphthalene	2.00	1.38		ug/L		69	43 - 114	7	20
Phenanthrene	2.00	1.70		ug/L		85	53 - 115	0	20
Pyrene	2.00	1.84		ug/L		92	53 - 121	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-methylnaphthalene-d10	71		40 - 140
Fluoranthene-d10 (Surr)	89		40 - 140
Terphenyl-d14	100		58 - 132

Lab Chronicle

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2807 (RHMW03)

Lab Sample ID: 580-111436-1

Date Collected: 03/15/22 12:50

Matrix: Water

Date Received: 03/16/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384789	03/23/22 10:41	E1L	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 19:57	E1L	FGS SEA

Client Sample ID: ERH2803 (RHMW12A)

Lab Sample ID: 580-111436-2

Date Collected: 03/15/22 13:10

Matrix: Water

Date Received: 03/16/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 21:35	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 20:21	E1L	FGS SEA

Client Sample ID: ERH2804 (RHMW12A)

Lab Sample ID: 580-111436-3

Date Collected: 03/15/22 13:10

Matrix: Water

Date Received: 03/16/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 21:58	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 20:46	E1L	FGS SEA

Client Sample ID: ERH2818 (RHMW05)

Lab Sample ID: 580-111436-4

Date Collected: 03/15/22 09:05

Matrix: Water

Date Received: 03/16/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 22:22	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 21:10	E1L	FGS SEA

Client Sample ID: ERH2814 (RHMW01R)

Lab Sample ID: 580-111436-5

Date Collected: 03/15/22 10:20

Matrix: Water

Date Received: 03/16/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 22:45	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 21:35	E1L	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111436-1

Client Sample ID: ERH2815 (RHMW01R)
Date Collected: 03/15/22 10:20
Date Received: 03/16/22 14:59

Lab Sample ID: 580-111436-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 23:08	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 22:00	E1L	FGS SEA

Client Sample ID: ERH2775 (RHMW15-05)
Date Collected: 03/14/22 09:45
Date Received: 03/16/22 14:59

Lab Sample ID: 580-111436-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384314	03/18/22 10:55	ASL	FGS SEA
Total/NA	Analysis	8270E		1	384624	03/22/22 20:34	ADB	FGS SEA
Total/NA	Prep	3510C			384314	03/18/22 10:55	ASL	FGS SEA
Total/NA	Analysis	8270E SIM		1	384521	03/21/22 16:39	TL1	FGS SEA

Client Sample ID: ERH2800 (RHMW14-3)
Date Collected: 03/15/22 10:00
Date Received: 03/16/22 14:59

Lab Sample ID: 580-111436-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 23:31	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 22:24	E1L	FGS SEA

Client Sample ID: ERH2821 (RHMW16)
Date Collected: 03/15/22 10:40
Date Received: 03/16/22 14:59

Lab Sample ID: 580-111436-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E		1	384865	03/23/22 23:54	JCM	FGS SEA
Total/NA	Prep	3510C			384501	03/21/22 09:43	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	385175	03/25/22 22:49	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: 580-111436-1

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 NOI GW

Job ID: 580-111436-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-111436-1	ERH2807 (RHMW03)	Water	03/15/22 12:50	03/16/22 14:59
580-111436-2	ERH2803 (RHMW12A)	Water	03/15/22 13:10	03/16/22 14:59
580-111436-3	ERH2804 (RHMW12A)	Water	03/15/22 13:10	03/16/22 14:59
580-111436-4	ERH2818 (RHMW05)	Water	03/15/22 09:05	03/16/22 14:59
580-111436-5	ERH2814 (RHMW01R)	Water	03/15/22 10:20	03/16/22 14:59
580-111436-6	ERH2815 (RHMW01R)	Water	03/15/22 10:20	03/16/22 14:59
580-111436-7	ERH2775 (RHMW15-05)	Water	03/14/22 09:45	03/16/22 14:59
580-111436-8	ERH2800 (RHMW14-3)	Water	03/15/22 10:00	03/16/22 14:59
580-111436-9	ERH2821 (RHMW16)	Water	03/15/22 10:40	03/16/22 14:59

- 1
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530-111436 Chain of Custody

Chain of Custody Record

00000000

Sampler: <u>Gavin Mura</u>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: EURO202203-47NOI			
Phone: <u>808 987-3201</u>		E-Mail:		State of Origin: Hawaii		Page: Page 1 of 1			
Company: AECOM				PWSID:		Job #:			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Analysis Requested <div style="font-size: 2em; font-weight: bold; text-align: center;">MN 3/15/22</div>				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)	
City: Honolulu		TAT Requested (days): Rush - ASAP							
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)		PO #:							
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)		WO #:		<div style="font-size: 2em; font-weight: bold; text-align: center;">MN 3/15/22</div>				Other: Special Instructions/Note:	
Project Name: CV18F0126		Project #: 60571032							
Site: RH		SSOW#:							
Sample Identification		Sample Date	Sample Time						
ERH2807 (RHMW03)	03/15/22	1250	G	W		N	x		2

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 EQUIS EDD.		Special Instructions/QC Requirements: DOD QSM project.	
--------------------------------------------------------	--	-------------------------------------------------------------------------------------------	--	--------------------------------------------------------	--

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
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Relinquished by: <u>Maggie Nutter</u>	Date/Time: <u>3/15/22 1430</u>	Company: AECOM	Received by: <u>[Signature]</u>	Date/Time: <u>3/16/22 945</u>	Company: <u>EPGS</u>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <u>46.5 1.7/1.9 1gB/wet/bub w/tes FedEx PD</u>
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Chain of Custody Record

Client Information		Sampler: <u>Quin Mura</u>	Lab PM: Elaine Walker	Carrier Tracking No(s):	COC No: EURO202203-50N01						
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: <u>(808) 987-3201</u>	E-Mail:	FedEx	Page: Page 1 of 1						
Company: AECOM		PWSID:	Analysis Requested								
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract	<div style="font-size: 2em; font-weight: bold; opacity: 0.5;"> MN 3/15/22 </div>								
City: Honolulu		TAT Requested (days): Rush - ASAP									
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
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 #: 80571032	<div style="font-size: 2em; font-weight: bold; opacity: 0.5;"> MN 3/15/22 </div>								
Site: RH		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=waste, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOCs (fall suite) by 8270D (Nap, 1,2-Methylnap, PAH) by 8270DSIM	Total Number of containers	Preservation Codes:	
				Preservation Code:						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
ERH2818 (RHMW05)		03/15/22	0105	G	W	N	X		2	Other:	
										Special Instructions/Note:	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<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		<input type="checkbox"/> Return To Client <input checked="" 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 EQUIS EDD.			Special Instructions/QC Requirements: DOD QSM project.						
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:							
Relinquished by: <u>Margie Nutter</u>		Date/Time: <u>3/15/22 1430</u>	Company: AECOM	Received by: <u>[Signature]</u>		Date/Time: <u>3/16/22 945</u>	Company: <u>FGS</u>				
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:				
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Page 41 of 48				Temp: <u>13.3</u> °C and Other Remarks: <u>Federal PO GBL/wt/Bus w/CS</u>		3/29/2022	

Eurofins FGS, Seattle

5755 8th Street East
Tacoma, WA 98424

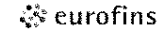
Chain of Custody Record

Client Information		Sampler: <i>Garth Mun</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: EURO202203-49NOI											
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: <i>808 987 3201</i>		E-Mail:		State of Origin: Hawaii		Page: Page 1 of 1											
Company: AECOM		PWSID:		Analysis Requested MN 3/15/22		Total Number of containers MN 3/15/22		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 - EDTA Z - cther (specify) Other:											
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract																	
City: Honolulu		TAT Requested (days): Rush - ASAP																	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																	
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		Special Instructions/Note:											
Site: RH		SSOW#:																	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)		Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		SVOCs (full suite) by 8270D (Nap, 1,2-Mathylnap, PAH) by 8270DSIM		Total Number of containers			
ERH2814 (RHMW01R)		03/15/22		1020		G		W		N		x				2			
ERH2815 (RHMW01R)		03/15/22		1020		G		W		N		x				2			
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)					
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.		Special Instructions/QC Requirements: DOD QSM project.		<input type="checkbox"/> Return To Client		<input checked="" type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For _____ Months									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:													
Relinquished by: <i>Maggie Nutter</i>		Date/Time: <i>3/17/22 1430</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>3/16/22 945</i>		Company: <i>EPG</i>									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:															

Eurofins FGS, Seattle

5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: <i>Chris Womack</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: EURO202203-43NOI	
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: <i>916.769.9323</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1	
Company: AECOM				PWSID:		Analysis Requested			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) (SVOCs (full suite) by 8270D (Nap. 1-2-Mathlymap. PAH) by 8270DSIM)		<i>MN 3/15/22</i>		Total Number of Containers	
City: Honolulu		TAT Requested (days): Rush - ASAP							
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
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		Preservation Codes:	
Site: RH		SSOW#:		Project Name: CV18F0126		Project #: 60571032		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHCO4 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)	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:	
7 ERH2775 (RHMW15-05)		<i>3/14/22</i>	<i>0945</i>	G	W	N	x		
<i>MN 3/15/22</i>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<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					<input type="checkbox"/> Return To Client <input checked="" 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 EQUIS EDD.				
Empty Kit Relinquished by:					Date:				
Relinquished by: <i>Cindy Brownson</i>		Date/Time: <i>3/15/22 1530</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>3/16/22 945</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>A3 1.4/1.6</i>					

FedEx PO Lg 8/1/22/But w/c

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-111436-1

Login Number: 111436

List Number: 1

Creator: Greene, Ashton R

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.	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	