

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : P5317

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
RE114D2-20241216	P5317-01	8260-Low	8270-Modified				
RW4-20241216	P5317-02	8260-Low	8270-Modified				
TT191D1-20241216	P5317-03	8260-Low	8270-Modified				
TT191D2-20241216	P5317-04	8260-Low	8270-Modified				
TT163S1-20241216	P5317-05	8260-Low	8270-Modified				
DUP-04-20241216	P5317-06	8260-Low	8270-Modified				
RW8-MW01S-20241216	P5317-07	8260-Low	8270-Modified				
RW8-MW01D1-20241216	P5317-08	8260-Low	8270-Modified				
TT158S1-20241217	P5317-09	8260-Low	8270-Modified				
TT158I1-20241217	P5317-10	8260-Low	8270-Modified				
DUP-05-20241217	P5317-11	8260-Low	8270-Modified				
TT172S1-20241217	P5317-12	8260-Low	8270-Modified				
RW9-MW01S-20241217	P5317-13	8260-Low	8270-Modified				
RW9-MW01D1-20241217	P5317-14	8260-Low	8270-Modified				
RW9-MW01D2-20241217	P5317-15	8260-Low	8270-Modified				
RW9-MW01D3-20241217	P5317-16	8260-Low	8270-Modified				
DUP-06-20241217	P5317-17	8260-Low	8270-Modified				
RE132D5-20241217	P5317-18	8260-Low	8270-Modified				
RE132D6-20241217	P5317-21	8260-Low	8270-Modified				
RE132D7-20241217	P5317-22	8260-Low	8270-Modified				
TB	P5317-23	8260-Low	8270-Modified				
RW8-MW01D2-20241217	P5317-24	8260-Low	8270-Modified				
RW8-MW01D3-20241217	P5317-25	8260-Low	8270-Modified				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
P5317-01	Water	12/16/24	12/17/24	12/18/24	12/20/24
P5317-02	Water	12/16/24	12/17/24	12/18/24	12/20/24
P5317-03	Water	12/16/24	12/17/24	12/18/24	12/20/24
P5317-04	Water	12/16/24	12/17/24	12/18/24	12/20/24
P5317-05	Water	12/16/24	12/17/24	12/18/24	12/20/24
P5317-06	Water	12/16/24	12/17/24	12/18/24	12/24/24
P5317-07	Water	12/16/24	12/17/24	12/18/24	12/24/24
P5317-08	Water	12/16/24	12/17/24	12/18/24	12/21/24
P5317-09	Water	12/17/24	12/17/24	12/18/24	12/20/24
P5317-10	Water	12/17/24	12/17/24	12/18/24	12/20/24
P5317-11	Water	12/17/24	12/17/24	12/18/24	12/21/24
P5317-12	Water	12/17/24	12/17/24	12/18/24	12/21/24
P5317-13	Water	12/17/24	12/17/24	12/18/24	12/21/24
P5317-14	Water	12/17/24	12/17/24	12/18/24	12/21/24
P5317-15	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-16	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-17	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-18	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-21	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-22	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-24	Water	12/17/24	12/17/24	12/18/24	12/23/24
P5317-25	Water	12/17/24	12/17/24	12/18/24	12/23/24

* Details For Test : SVOC-SIMGroup1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
P5317-01	Water	12/16/24	12/17/24		12/19/24
P5317-02	Water	12/16/24	12/17/24		12/19/24
P5317-03	Water	12/16/24	12/17/24		12/20/24
P5317-04	Water	12/16/24	12/17/24		12/19/24
P5317-05	Water	12/16/24	12/17/24		12/19/24
P5317-06	Water	12/16/24	12/17/24		12/23/24
P5317-07	Water	12/16/24	12/17/24		12/19/24
P5317-08	Water	12/16/24	12/17/24		12/19/24
P5317-09	Water	12/17/24	12/17/24		12/19/24
P5317-10	Water	12/17/24	12/17/24		12/19/24
P5317-11	Water	12/17/24	12/17/24		12/23/24
P5317-12	Water	12/17/24	12/17/24		12/19/24
P5317-13	Water	12/17/24	12/17/24		12/19/24
P5317-14	Water	12/17/24	12/17/24		12/19/24
P5317-15	Water	12/17/24	12/17/24		12/19/24
P5317-16	Water	12/17/24	12/17/24		12/19/24
P5317-17	Water	12/17/24	12/17/24		12/23/24
P5317-18	Water	12/17/24	12/17/24		12/19/24
P5317-21	Water	12/17/24	12/17/24		12/23/24
P5317-22	Water	12/17/24	12/17/24		12/23/24
P5317-23	Water	12/17/24	12/17/24		12/19/24
P5317-24	Water	12/17/24	12/17/24		12/23/24
P5317-25	Water	12/17/24	12/17/24		12/23/24

* Details For Test : VOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
P5317-01	Water	8260-Low	5030		
P5317-02	Water	8260-Low	5030		
P5317-03	Water	8260-Low	5030		
P5317-04	Water	8260-Low	5030		
P5317-05	Water	8260-Low	5030		
P5317-06	Water	8260-Low	5030		
P5317-07	Water	8260-Low	5030		
P5317-08	Water	8260-Low	5030		
P5317-09	Water	8260-Low	5030		
P5317-10	Water	8260-Low	5030		
P5317-11	Water	8260-Low	5030		
P5317-12	Water	8260-Low	5030		
P5317-13	Water	8260-Low	5030		
P5317-14	Water	8260-Low	5030		
P5317-15	Water	8260-Low	5030		
P5317-16	Water	8260-Low	5030		
P5317-17	Water	8260-Low	5030		
P5317-18	Water	8260-Low	5030		
P5317-19	Water	8260-Low	5030		
P5317-20	Water	8260-Low	5030		
P5317-21	Water	8260-Low	5030		
P5317-22	Water	8260-Low	5030		
P5317-23	Water	8260-Low	5030		
P5317-24	Water	8260-Low	5030		
P5317-25	Water	8260-Low	5030		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
P5317-01	Water	8270-Modified	3510C		
P5317-02	Water	8270-Modified	3510C		
P5317-03	Water	8270-Modified	3510C		
P5317-04	Water	8270-Modified	3510C		
P5317-05	Water	8270-Modified	3510C		
P5317-06	Water	8270-Modified	3510C		
P5317-07	Water	8270-Modified	3510C		
P5317-08	Water	8270-Modified	3510C		
P5317-09	Water	8270-Modified	3510C		
P5317-10	Water	8270-Modified	3510C		
P5317-11	Water	8270-Modified	3510C		
P5317-12	Water	8270-Modified	3510C		
P5317-13	Water	8270-Modified	3510C		
P5317-14	Water	8270-Modified	3510C		
P5317-15	Water	8270-Modified	3510C		
P5317-16	Water	8270-Modified	3510C		
P5317-17	Water	8270-Modified	3510C		
P5317-18	Water	8270-Modified	3510C		
P5317-19	Water	8270-Modified	3510C		
P5317-20	Water	8270-Modified	3510C		
P5317-21	Water	8270-Modified	3510C		
P5317-22	Water	8270-Modified	3510C		
P5317-24	Water	8270-Modified	3510C		
P5317-25	Water	8270-Modified	3510C		

Cover Page

Order ID : P5317

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number

P5317-01
P5317-02
P5317-03
P5317-04
P5317-05
P5317-06
P5317-07
P5317-08
P5317-09
P5317-10
P5317-11
P5317-12
P5317-13
P5317-14
P5317-15
P5317-16
P5317-17
P5317-18
P5317-19
P5317-20
P5317-21
P5317-22
P5317-23
P5317-24
P5317-25

Client Sample Number

RE114D2-20241216
RW4-20241216
TT191D1-20241216
TT191D2-20241216
TT163S1-20241216
DUP-04-20241216
RW8-MW01S-20241216
RW8-MW01D1-20241216
TT158S1-20241217
TT158I1-20241217
DUP-05-20241217
TT172S1-20241217
RW9-MW01S-20241217
RW9-MW01D1-20241217
RW9-MW01D2-20241217
RW9-MW01D3-20241217
DUP-06-20241217
RE132D5-20241217
RE132D5-20241217MS
RE132D5-20241217MSD
RE132D6-20241217
RE132D7-20241217
TB
RW8-MW01D2-20241217
RW8-MW01D3-20241217

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 12/31/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Chemtech Project # P5317

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

25 Water samples were received on 12/17/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82X121124W.M) for t-1,3-Dichloropropene, Dibromochloromethane, Bromoform these compounds are passing on Quadratic Regression.

The Continuous Calibration File ID VX044397.D met the requirements except for Chloroethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX044438.D met the requirements except for Methylcyclohexane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX044466.D met the requirements except for Tetrachloroethene failing marginally high and Methylcyclohexane is failing high but no positive hit in associate sample therefore no corrective action taken.
The Tuning criteria met requirements.

Samples RE132D7-20241217 was diluted due to samples past history of high concentration of Trichloroethene.

Samples RW4-20241216, RE132D5-20241217 were diluted due to high concentrations.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Chemtech Project # P5317

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

25 Water samples were received on 12/17/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RE114D2-20241216

[Terphenyl-d14 - 155%],

RW4-20241216 [Terphenyl-d14 - 143%],

TT191D1-20241216 [Terphenyl-d14 - 152%],

TT191D2-20241216 [Terphenyl-d14 - 157%],

TT163S1-20241216 [Nitrobenzene-d5 - 112%, Terphenyl-d14 - 179%],

DUP-04-20241216 [2-Fluorobiphenyl - 108%, Terphenyl-d14 - 162%],

RW8-MW01S-20241216 [Terphenyl-d14 - 182%],

RW8-MW01D1-20241216 [Terphenyl-d14 - 191%],

TT158S1-20241217 [Nitrobenzene-d5 - 112%, Terphenyl-d14 - 192%],

TT158I1-20241217 [Terphenyl-d14 - 154%],

DUP-05-20241217 [Terphenyl-d14 - 163%],

TT172S1-20241217 [Terphenyl-d14 - 144%],

RW9-MW01S-20241217 [2-Fluorobiphenyl - 112%, Terphenyl-d14 - 157%],

RW9-MW01D1-20241217 [Terphenyl-d14 - 142%],

RW9-MW01D2-20241217 [Terphenyl-d14 - 155%],

RW9-MW01D3-20241217 [Terphenyl-d14 - 162%],

DUP-06-20241217 [2-Fluorobiphenyl - 111%, Terphenyl-d14 - 169%],

RE132D5-20241217 [Terphenyl-d14 - 134%],

RE132D5-20241217MS [Terphenyl-d14 - 147%],

RE132D5-20241217MSD [Terphenyl-d14 - 168%],
RE132D6-20241217 [Terphenyl-d14 - 175%],
RE132D6-20241217DL [2-Fluorobiphenyl - 113%, Nitrobenzene-d5 - 130%, Terphenyl-d14 - 222%],
RE132D7-20241217 [Terphenyl-d14 - 138%],
RW8-MW01D2-20241217 [2-Fluorobiphenyl - 111%, Nitrobenzene-d5 - 122%, Terphenyl-d14 - 190%],
RW8-MW01D3-20241217 [2-Fluorobiphenyl - 109%, Nitrobenzene-d5 - 112%, Terphenyl-d14 - 160%],
PB165723BL [Nitrobenzene-d5 - 122%, Terphenyl-d14 - 134%],
PB165723BS [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 141%, Terphenyl-d14 - 142%],
PB165724BL [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],
PB165724BS [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 125%],
PB165724BSD [2-Fluorobiphenyl - 116% and Nitrobenzene-d5 - 140%].

The Internal Standards Areas met the acceptable requirements except for RE132D6-20241217DL, The failure Internal Standard not associated with the client parameters list, therefore no corrective action was taken.

The Retention Times were acceptable for all samples.

The MS {P5317-19MS} with File ID: BN035783.D recoveries met the requirements for all compounds except for 1,4-Dioxane[195%], Due to being a poor compound therefore no corrective action was taken.

The MSD recoveries met the acceptable requirements .

The RPD for {P5317-20MSD} with File ID: BN035784.D met criteria except for 1,4-Dioxane[89%], due to difference in results of MS and MSD .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035731.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d6 and Terphenyl-d14, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035749.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035776.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035794.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Samples RE132D5-20241217 was diluted due to bad matrix sample run straight where End Continuous Calibration missing so based on that analysis lab analyzed Sam# RE132D5-20241217 analyzed with direct 2x dilution.

Sample RE132D6-20241217 was diluted due to high concentration.

E. Additional Comments:

The Sam# RE132D5-20241217, Samples original analyzed with direct 2x dilution is reported as screening data in miscellaneous data.

The sample # RE132D5-20241217MS and RE132D5-20241217MS is failing for cis-1,2-Dichloroethene and the original sample(RE132D5-20241217) is reported with M flag for this compounds.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5317

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/31/2024

LAB CHRONICLE

OrderID:	P5317	OrderDate:	12/17/2024 3:48:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5317-01	RE114D2-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/19/24	12/17/24
P5317-02	RW4-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/19/24	12/17/24
P5317-02DL	RW4-20241216DL	Water	VOCMS Group1	8260-Low	12/16/24		12/20/24	12/17/24
P5317-03	TT191D1-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/20/24	12/17/24
P5317-04	TT191D2-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/19/24	12/17/24
P5317-05	TT163S1-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/19/24	12/17/24
P5317-06	DUP-04-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/23/24	12/17/24
P5317-07	RW8-MW01S-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/19/24	12/17/24
P5317-08	RW8-MW01D1-20241216	Water	VOCMS Group1	8260-Low	12/16/24		12/19/24	12/17/24
P5317-09	TT158S1-20241217	Water	VOCMS Group1	8260-Low	12/17/24		12/19/24	12/17/24
P5317-10	TT158I1-20241217	Water	VOCMS Group1	8260-Low	12/17/24		12/19/24	12/17/24

LAB CHRONICLE

P5317-11	DUP-05-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/23/24	12/17/24
P5317-12	TT172S1-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-13	RW9-MW01S-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-14	RW9-MW01D1-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-15	RW9-MW01D2-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-16	RW9-MW01D3-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-17	DUP-06-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/23/24	12/17/24
P5317-18	RE132D5-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-18DL	RE132D5-20241217DL	Water	VOCMS Group1	8260-Low	12/17/24	12/30/24	12/17/24
P5317-21	RE132D6-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/23/24	12/17/24
P5317-22	RE132D7-20241217	Water	VOCMS Group1	8260-Low	12/17/24	12/23/24	12/17/24
P5317-23	TB	Water	VOCMS Group1	8260-Low	12/17/24	12/19/24	12/17/24
P5317-24	RW8-MW01D2-20241217	Water			12/17/24		12/17/24

LAB CHRONICLE

P5317-25	RW8-MW01D3-20241 217	Water	VOCMS Group1	8260-Low	12/23/24	12/17/24	12/17/24
			VOCMS Group1	8260-Low	12/23/24		

Hit Summary Sheet SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: RE114D2-20241216									
P5317-01	RE114D2-20241216	Water	Dichlorodifluoromethane	0.62	J	0.21	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	1,1,2-Trichlorotrifluoroethane	14.1		0.25	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	1,1-Dichloroethene	0.90	J	0.26	0.75	1.00	ug/L
P5317-01	RE114D2-20241216	Water	Acetone	1.70	J	1.40	3.80	5.00	ug/L
P5317-01	RE114D2-20241216	Water	1,1-Dichloroethane	0.62	J	0.23	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	Carbon Tetrachloride	0.65	J	0.25	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	cis-1,2-Dichloroethene	1.90		0.25	0.75	1.00	ug/L
P5317-01	RE114D2-20241216	Water	Chloroform	0.57	J	0.26	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	Trichloroethene	110		0.32	0.75	1.00	ug/L
P5317-01	RE114D2-20241216	Water	Toluene	0.29	J	0.18	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	1,1,2-Trichloroethane	0.42	J	0.21	0.50	1.00	ug/L
P5317-01	RE114D2-20241216	Water	m/p-Xylenes	0.48	J	0.31	1.00	2.00	ug/L
Total Voc :				132					
Total Concentration:				132					
Client ID: RW4-20241216									
P5317-02	RW4-20241216	Water	1,1,2-Trichlorotrifluoroethane	10.3		0.25	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	1,1-Dichloroethene	1.10		0.26	0.75	1.00	ug/L
P5317-02	RW4-20241216	Water	Acetone	2.30	J	1.40	3.80	5.00	ug/L
P5317-02	RW4-20241216	Water	Methylene Chloride	0.55	J	0.32	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
P5317-02	RW4-20241216	Water	Chloroform	0.34	J	0.26	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	Trichloroethene	510	E	0.32	0.75	1.00	ug/L
P5317-02	RW4-20241216	Water	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	Tetrachloroethene	6.80		0.25	0.50	1.00	ug/L
Total Voc :				533					
Total Concentration:				533					
Client ID: RW4-20241216DL									
P5317-02DL	RW4-20241216DL	Water	1,1,2-Trichlorotrifluoroethane	11.9	JD	5.00	10.0	20.0	ug/L
P5317-02DL	RW4-20241216DL	Water	Trichloroethene	580	D	6.40	15.0	20.0	ug/L
P5317-02DL	RW4-20241216DL	Water	Tetrachloroethene	9.60	JD	5.00	10.0	20.0	ug/L
Total Voc :				602					
Total Concentration:				602					
Client ID: TT191D1-20241216									
P5317-03	TT191D1-20241216	Water	Dichlorodifluoromethane	0.81	J	0.21	0.50	1.00	ug/L
P5317-03	TT191D1-20241216	Water	Chloromethane	0.35	J	0.35	0.50	1.00	ug/L
P5317-03	TT191D1-20241216	Water	1,1,2-Trichlorotrifluoroethane	2.10		0.25	0.50	1.00	ug/L
P5317-03	TT191D1-20241216	Water	1,1-Dichloroethene	0.71	J	0.26	0.75	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-03	TT191D1-20241216	Water	Methylene Chloride	0.36	J	0.32	0.50	1.00	ug/L
P5317-03	TT191D1-20241216	Water	Chloroform	0.63	J	0.26	0.50	1.00	ug/L
P5317-03	TT191D1-20241216	Water	Trichloroethene	11.0		0.32	0.75	1.00	ug/L
			Total Voc :	16.0					
			Total Concentration:	16.0					
Client ID:	TT191D2-20241216								
P5317-04	TT191D2-20241216	Water	Chloromethane	0.77	J	0.35	0.50	1.00	ug/L
P5317-04	TT191D2-20241216	Water	1,1,2-Trichlorotrifluoroethane	4.80		0.25	0.50	1.00	ug/L
P5317-04	TT191D2-20241216	Water	1,1-Dichloroethene	1.50		0.26	0.75	1.00	ug/L
P5317-04	TT191D2-20241216	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
P5317-04	TT191D2-20241216	Water	Methylene Chloride	0.40	J	0.32	0.50	1.00	ug/L
P5317-04	TT191D2-20241216	Water	Carbon Tetrachloride	0.61	J	0.25	0.50	1.00	ug/L
P5317-04	TT191D2-20241216	Water	cis-1,2-Dichloroethene	0.72	J	0.25	0.75	1.00	ug/L
P5317-04	TT191D2-20241216	Water	Chloroform	0.46	J	0.26	0.50	1.00	ug/L
P5317-04	TT191D2-20241216	Water	Trichloroethene	96.3		0.32	0.75	1.00	ug/L
P5317-04	TT191D2-20241216	Water	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
			Total Voc :	107					
			Total Concentration:	107					
Client ID:	TT163S1-20241216								
P5317-05	TT163S1-20241216	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
P5317-05	TT163S1-20241216	Water	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
P5317-05	TT163S1-20241216	Water	Trichloroethene	1.00		0.32	0.75	1.00	ug/L
			Total Voc :	2.75					
			Total Concentration:	2.75					
Client ID:	DUP-04-20241216								
P5317-06	DUP-04-20241216	Water	Dichlorodifluoromethane	0.69	J	0.21	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	Chloromethane	0.52	J	0.35	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	1,1,2-Trichlorotrifluoroethane	1.70		0.25	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	1,1-Dichloroethene	0.64	J	0.26	0.75	1.00	ug/L
P5317-06	DUP-04-20241216	Water	cis-1,2-Dichloroethene	0.30	J	0.25	0.75	1.00	ug/L
P5317-06	DUP-04-20241216	Water	Chloroform	0.43	J	0.26	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	Trichloroethene	9.70		0.32	0.75	1.00	ug/L
			Total Voc :	14.0					
			Total Concentration:	14.0					
Client ID:	RW8-MW01S-20241216								
P5317-07	RW8-MW01S-2024	Water	Chloromethane	0.62	J	0.35	0.50	1.00	ug/L
P5317-07	RW8-MW01S-2024	Water	Acetone	1.60	J	1.40	3.80	5.00	ug/L
P5317-07	RW8-MW01S-2024	Water	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-07	RW8-MW01S-2024	Water	Trichloroethene	0.62	J	0.32	0.75	1.00	ug/L
			Total Voc :	3.19					
			Total Concentration:	3.19					
Client ID:	RW8-MW01D1-20241216								
P5317-08	RW8-MW01D1-2024	Water	Trichloroethene	0.34	J	0.32	0.75	1.00	ug/L
			Total Voc :	0.34					
			Total Concentration:	0.34					
Client ID:	TT158S1-20241217								
P5317-09	TT158S1-20241217	Water	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
P5317-09	TT158S1-20241217	Water	1,1-Dichloroethane	1.80		0.23	0.50	1.00	ug/L
P5317-09	TT158S1-20241217	Water	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
			Total Voc :	2.44					
			Total Concentration:	2.44					
Client ID:	TT158I1-20241217								
P5317-10	TT158I1-20241217	Water	Methylene Chloride	0.34	J	0.32	0.50	1.00	ug/L
			Total Voc :	0.34					
			Total Concentration:	0.34					
Client ID:	DUP-05-20241217								
P5317-11	DUP-05-20241217	Water	1,1-Dichloroethane	1.20		0.23	0.50	1.00	ug/L
P5317-11	DUP-05-20241217	Water	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
			Total Voc :	1.52					
			Total Concentration:	1.52					
Client ID:	TT172S1-20241217								
P5317-12	TT172S1-20241217	Water	1,1,2-Trichlorotrifluoroethane	1.30		0.25	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
P5317-12	TT172S1-20241217	Water	Trichloroethene	39.5		0.32	0.75	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Tetrachloroethene	1.90		0.25	0.50	1.00	ug/L
			Total Voc :	44.2					
			Total Concentration:	44.2					
Client ID:	RW9-MW01S-20241217								
P5317-13	RW9-MW01S-2024	Water	Chloromethane	0.81	J	0.35	0.50	1.00	ug/L
P5317-13	RW9-MW01S-2024	Water	Acetone	1.60	J	1.40	3.80	5.00	ug/L
P5317-13	RW9-MW01S-2024	Water	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
			Total Voc :	2.73					
			Total Concentration:	2.73					
Client ID:	RE132D5-20241217								
P5317-18	RE132D5-20241217	Water	Dichlorodifluoromethane	1.20		0.21	0.50	1.00	ug/L
P5317-18	RE132D5-20241217	Water	Chloromethane	0.70	J	0.35	0.50	1.00	ug/L
P5317-18	RE132D5-20241217	Water	1,1,2-Trichlorotrifluoroethane	9.40		0.25	0.50	1.00	ug/L
P5317-18	RE132D5-20241217	Water	1,1-Dichloroethene	2.60		0.26	0.75	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-18	RE132D5-20241217	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
P5317-18	RE132D5-20241217	Water	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
P5317-18	RE132D5-20241217	Water	Chloroform	1.20		0.26	0.50	1.00	ug/L
P5317-18	RE132D5-20241217	Water	Trichloroethene	150	E	0.32	0.75	1.00	ug/L
P5317-18	RE132D5-20241217	Water	1,1,2-Trichloroethane	0.45	J	0.21	0.50	1.00	ug/L
Total Voc :				169					
Total Concentration:				169					
Client ID:	RE132D5-20241217DL								
P5317-18DL	RE132D5-20241217	Water	1,1,2-Trichlorotrifluoroethane	7.90	D	1.00	2.00	4.00	ug/L
P5317-18DL	RE132D5-20241217	Water	1,1-Dichloroethene	2.90	JD	1.00	3.00	4.00	ug/L
P5317-18DL	RE132D5-20241217	Water	cis-1,2-Dichloroethene	1.70	JD	1.00	3.00	4.00	ug/L
P5317-18DL	RE132D5-20241217	Water	Chloroform	1.50	JD	1.00	2.00	4.00	ug/L
P5317-18DL	RE132D5-20241217	Water	Trichloroethene	150	D	1.30	3.00	4.00	ug/L
Total Voc :				164					
Total Concentration:				164					
Client ID:	RE132D6-20241217								
P5317-21	RE132D6-20241217	Water	1,1,2-Trichlorotrifluoroethane	26.6	J	10.0	20.0	40.0	ug/L
P5317-21	RE132D6-20241217	Water	1,1-Dichloroethene	15.5	J	10.4	30.0	40.0	ug/L
P5317-21	RE132D6-20241217	Water	Carbon Disulfide	16.8	J	12.8	30.0	40.0	ug/L
P5317-21	RE132D6-20241217	Water	Trichloroethene	1600		12.8	30.0	40.0	ug/L
P5317-21	RE132D6-20241217	Water	Tetrachloroethene	11.6	J	10.0	20.0	40.0	ug/L
P5317-21	RE132D6-20241217	Water	1,4-Dichlorobenzene	13.2	J	10.8	20.0	40.0	ug/L
Total Voc :				1680					
Total Concentration:				1680					
Client ID:	RE132D7-20241217								
P5317-22	RE132D7-20241217	Water	1,1,2-Trichlorotrifluoroethane	17.4	J	10.0	20.0	40.0	ug/L
P5317-22	RE132D7-20241217	Water	Trichloroethene	1100		12.8	30.0	40.0	ug/L
Total Voc :				1120					
Total Concentration:				1120					
Client ID:	TB								
P5317-23	TB	Water	Chloromethane	0.37	J	0.35	0.50	1.00	ug/L
P5317-23	TB	Water	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
Total Voc :				0.69					
Total Concentration:				0.69					



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE114D2-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044401.D	1		12/19/24 00:13	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.62	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	14.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.90	J	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.62	J	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.65	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.90		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.57	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	110		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.29	J	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RE114D2-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-01			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044401.D	1		12/19/24 00:13	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.42	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	0.48	J	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.7		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	53.1		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.55				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	176000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	72700	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE114D2-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044401.D	1		12/19/24 00:13	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW4-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044402.D	1		12/19/24 00:37	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.10		0.26	0.75	1.00	ug/L
67-64-1	Acetone	2.30	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.55	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.34	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	510	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW4-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-02			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044402.D	1		12/19/24 00:37	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	6.80		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.4		81 - 118		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	200000	6.757				
3114-55-4	Chlorobenzene-d5	173000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	70200	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW4-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044402.D	1		12/19/24 00:37	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW4-20241216DL		SDG No.:	P5317	
Lab Sample ID:	P5317-02DL		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044450.D	20		12/20/24 14:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	UD	4.20	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	UD	7.00	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	UD	6.80	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	UD	27.2	75.0	100	ug/L
75-00-3	Chloroethane	15.0	UD	11.2	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	UD	6.80	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	11.9	JD	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	15.0	UD	5.20	15.0	20.0	ug/L
67-64-1	Acetone	75.0	UD	27.8	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	UD	6.40	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	UD	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	UD	12.0	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	UD	6.40	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	UD	5.00	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	UD	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	UD	32.4	50.0	100	ug/L
78-93-3	2-Butanone	50.0	UD	26.0	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	UD	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	UD	5.00	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	UD	5.20	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	UD	3.80	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	UD	3.80	10.0	20.0	ug/L
71-43-2	Benzene	10.0	UD	3.20	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	UD	4.80	10.0	20.0	ug/L
79-01-6	Trichloroethene	580	D	6.40	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	UD	3.80	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	UD	4.80	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	UD	15.0	50.0	100	ug/L
108-88-3	Toluene	10.0	UD	3.60	10.0	20.0	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW4-20241216DL			SDG No.:	P5317		
Lab Sample ID:	P5317-02DL			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044450.D	20		12/20/24 14:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	UD	4.20	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	UD	3.60	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	UD	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	UD	22.6	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	UD	3.20	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	9.60	JD	5.00	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	UD	2.60	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	UD	3.20	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	UD	6.20	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	UD	2.80	10.0	20.0	ug/L
100-42-5	Styrene	10.0	UD	3.20	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	UD	4.20	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	UD	2.60	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	UD	5.40	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	UD	4.80	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	UD	5.40	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	UD	3.80	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	UD	9.20	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	UD	8.40	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	UD	10.2	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	123000	5.55				
540-36-3	1,4-Difluorobenzene	220000	6.757				
3114-55-4	Chlorobenzene-d5	193000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	79200	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW4-20241216DL		SDG No.:	P5317	
Lab Sample ID:	P5317-02DL		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044450.D	20		12/20/24 14:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
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J = Estimated Value
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 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	TT191D1-20241216			SDG No.:	P5317	
Lab Sample ID:	P5317-03			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044452.D	1		12/20/24 15:09	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.81	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.35	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.71	J	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.36	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.63	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	11.0		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT191D1-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044452.D	1		12/20/24 15:09	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.4		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	119000	5.55				
540-36-3	1,4-Difluorobenzene	211000	6.757				
3114-55-4	Chlorobenzene-d5	181000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	72800	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT191D1-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044452.D	1		12/20/24 15:09	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT191D2-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044404.D	1		12/19/24 01:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.77	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.80		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.50		0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.50	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.40	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.61	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	J	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.46	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	96.3		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	TT191D2-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-04			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044404.D	1		12/19/24 01:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.5		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	199000	6.757				
3114-55-4	Chlorobenzene-d5	177000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	73200	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT191D2-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044404.D	1		12/19/24 01:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	TT163S1-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-05			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044405.D	1		12/19/24 01:47	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.40	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	1.00		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	TT163S1-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-05			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044405.D	1		12/19/24 01:47	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	52.9		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	188000	6.757				
3114-55-4	Chlorobenzene-d5	168000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	67500	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT163S1-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-05		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044405.D	1		12/19/24 01:47	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-04-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-06		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044487.D	1		12/23/24 17:54	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.69	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.52	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.64	J	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.30	J	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.43	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	9.70		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-04-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-06		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044487.D	1		12/23/24 17:54	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.8		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	141000	5.55				
540-36-3	1,4-Difluorobenzene	245000	6.757				
3114-55-4	Chlorobenzene-d5	208000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	92700	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-04-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-06		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044487.D	1		12/23/24 17:54	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01S-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-07		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044406.D	1		12/19/24 02:10	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.62	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.62	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW8-MW01S-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-07			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044406.D	1		12/19/24 02:10	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	52.0		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.544				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	169000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	66600	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01S-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-07		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044406.D	1		12/19/24 02:10	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW8-MW01D1-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-08			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044407.D	1		12/19/24 02:34	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.34	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/16/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW8-MW01D1-20241216			SDG No.:	P5317		
Lab Sample ID:	P5317-08			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044407.D	1		12/19/24 02:34	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	46.3		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	112000	5.55				
540-36-3	1,4-Difluorobenzene	206000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71500	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01D1-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-08		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044407.D	1		12/19/24 02:34	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	TT158S1-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-09			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044408.D	1		12/19/24 02:57	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.80		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	TT158S1-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-09			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044408.D	1		12/19/24 02:57	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.6		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		85 - 114		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	197000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	65700	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT158S1-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-09		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044408.D	1		12/19/24 02:57	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	TT158I1-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-10			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044409.D	1		12/19/24 03:21	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.34	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	TT158I1-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-10			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044409.D	1		12/19/24 03:21	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.2		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.544				
540-36-3	1,4-Difluorobenzene	193000	6.757				
3114-55-4	Chlorobenzene-d5	169000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	64100	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT158I1-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-10		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044409.D	1		12/19/24 03:21	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-05-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-11		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044488.D	1		12/23/24 18:17	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.20		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-05-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-11		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044488.D	1		12/23/24 18:17	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.9		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	55.6		89 - 112		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.544				
540-36-3	1,4-Difluorobenzene	233000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	95900	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-05-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-11		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044488.D	1		12/23/24 18:17	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24
Client Sample ID:	TT172S1-20241217			SDG No.:	P5317
Lab Sample ID:	P5317-12			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044410.D	1		12/19/24 03:44	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.50	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	39.5		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	TT172S1-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-12			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044410.D	1		12/19/24 03:44	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.90		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.544				
540-36-3	1,4-Difluorobenzene	190000	6.757				
3114-55-4	Chlorobenzene-d5	168000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	68300	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TT172S1-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-12		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044410.D	1		12/19/24 03:44	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01S-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-13		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044411.D	1		12/19/24 04:07	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.81	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW9-MW01S-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-13			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044411.D	1		12/19/24 04:07	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.3		81 - 118		93%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	197000	6.763				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	73700	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01S-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-13		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044411.D	1		12/19/24 04:07	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01D1-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-14		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044412.D	1		12/19/24 04:31	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW9-MW01D1-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-14			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044412.D	1		12/19/24 04:31	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.1		81 - 118		92%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.7		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	111000	5.55				
540-36-3	1,4-Difluorobenzene	207000	6.757				
3114-55-4	Chlorobenzene-d5	181000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	74000	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01D1-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-14		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044412.D	1		12/19/24 04:31	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24
Client Sample ID:	RW9-MW01D2-20241217			SDG No.:	P5317
Lab Sample ID:	P5317-15			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044413.D	1		12/19/24 04:54	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	RW9-MW01D2-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-15			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044413.D	1		12/19/24 04:54	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.7		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		85 - 114		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	105000	5.55				
540-36-3	1,4-Difluorobenzene	189000	6.757				
3114-55-4	Chlorobenzene-d5	165000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	62400	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01D2-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-15		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044413.D	1		12/19/24 04:54	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01D3-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-16		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044414.D	1		12/19/24 05:17	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW9-MW01D3-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-16			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044414.D	1		12/19/24 05:17	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.6		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		85 - 114		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.55				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	67500	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW9-MW01D3-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-16		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044414.D	1		12/19/24 05:17	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-06-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-17		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044489.D	1		12/23/24 18:40	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-06-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-17		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044489.D	1		12/23/24 18:40	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.3		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	54.4		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	129000	5.544				
540-36-3	1,4-Difluorobenzene	227000	6.757				
3114-55-4	Chlorobenzene-d5	197000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	84900	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-06-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-17		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044489.D	1		12/23/24 18:40	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-18			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044416.D	1		12/19/24 06:04	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.20		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.70	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.60		0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.40	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	1.20		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	150	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-18		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044416.D	1		12/19/24 06:04	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	104000	5.544				
540-36-3	1,4-Difluorobenzene	189000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71900	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-18		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044416.D	1		12/19/24 06:04	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217DL		SDG No.:	P5317	
Lab Sample ID:	P5317-18DL		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044545.D	4		12/30/24 15:45	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.00	UD	0.84	2.00	4.00	ug/L
74-87-3	Chloromethane	2.00	UD	1.40	2.00	4.00	ug/L
75-01-4	Vinyl Chloride	3.00	UD	1.40	3.00	4.00	ug/L
74-83-9	Bromomethane	15.0	UD	5.40	15.0	20.0	ug/L
75-00-3	Chloroethane	3.00	UD	2.20	3.00	4.00	ug/L
75-69-4	Trichlorofluoromethane	2.00	UD	1.40	2.00	4.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	7.90	D	1.00	2.00	4.00	ug/L
75-35-4	1,1-Dichloroethene	2.90	JD	1.00	3.00	4.00	ug/L
67-64-1	Acetone	15.0	UD	5.60	15.0	20.0	ug/L
75-15-0	Carbon Disulfide	3.00	UD	1.30	3.00	4.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.00	UD	0.64	2.00	4.00	ug/L
79-20-9	Methyl Acetate	3.00	UD	2.40	3.00	4.00	ug/L
75-09-2	Methylene Chloride	2.00	UD	1.30	2.00	4.00	ug/L
156-60-5	trans-1,2-Dichloroethene	2.00	UD	1.00	2.00	4.00	ug/L
75-34-3	1,1-Dichloroethane	2.00	UD	0.92	2.00	4.00	ug/L
110-82-7	Cyclohexane	10.0	UD	6.50	10.0	20.0	ug/L
78-93-3	2-Butanone	10.0	UD	5.20	10.0	20.0	ug/L
56-23-5	Carbon Tetrachloride	2.00	UD	1.00	2.00	4.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.70	JD	1.00	3.00	4.00	ug/L
74-97-5	Bromochloromethane	2.00	UD	0.72	2.00	4.00	ug/L
67-66-3	Chloroform	1.50	JD	1.00	2.00	4.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	UD	0.76	2.00	4.00	ug/L
108-87-2	Methylcyclohexane	2.00	UD	0.76	2.00	4.00	ug/L
71-43-2	Benzene	2.00	UD	0.64	2.00	4.00	ug/L
107-06-2	1,2-Dichloroethane	2.00	UD	0.96	2.00	4.00	ug/L
79-01-6	Trichloroethene	150	D	1.30	3.00	4.00	ug/L
78-87-5	1,2-Dichloropropane	2.00	UD	0.76	2.00	4.00	ug/L
75-27-4	Bromodichloromethane	2.00	UD	0.96	2.00	4.00	ug/L
108-10-1	4-Methyl-2-Pentanone	10.0	UD	3.00	10.0	20.0	ug/L
108-88-3	Toluene	2.00	UD	0.72	2.00	4.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217DL		SDG No.:	P5317	
Lab Sample ID:	P5317-18DL		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044545.D	4		12/30/24 15:45	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.00	UD	0.84	2.00	4.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	2.00	UD	0.72	2.00	4.00	ug/L
79-00-5	1,1,2-Trichloroethane	2.00	UD	0.84	2.00	4.00	ug/L
591-78-6	2-Hexanone	10.0	UD	4.50	10.0	20.0	ug/L
124-48-1	Dibromochloromethane	2.00	UD	0.72	2.00	4.00	ug/L
106-93-4	1,2-Dibromoethane	2.00	UD	0.64	2.00	4.00	ug/L
127-18-4	Tetrachloroethene	2.00	UD	1.00	2.00	4.00	ug/L
108-90-7	Chlorobenzene	2.00	UD	0.52	2.00	4.00	ug/L
100-41-4	Ethyl Benzene	2.00	UD	0.64	2.00	4.00	ug/L
179601-23-1	m/p-Xylenes	4.00	UD	1.20	4.00	8.00	ug/L
95-47-6	o-Xylene	2.00	UD	0.56	2.00	4.00	ug/L
100-42-5	Styrene	2.00	UD	0.64	2.00	4.00	ug/L
75-25-2	Bromoform	2.00	UD	0.84	2.00	4.00	ug/L
98-82-8	Isopropylbenzene	2.00	UD	0.52	2.00	4.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.00	UD	1.10	2.00	4.00	ug/L
541-73-1	1,3-Dichlorobenzene	2.00	UD	0.96	2.00	4.00	ug/L
106-46-7	1,4-Dichlorobenzene	2.00	UD	1.10	2.00	4.00	ug/L
95-50-1	1,2-Dichlorobenzene	2.00	UD	0.76	2.00	4.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.00	UD	1.80	3.00	4.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.00	UD	1.70	2.00	4.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	3.00	UD	2.00	3.00	4.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.3		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	55.1		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	118000	5.55				
540-36-3	1,4-Difluorobenzene	200000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	75500	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217DL		SDG No.:	P5317	
Lab Sample ID:	P5317-18DL		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044545.D	4		12/30/24 15:45	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	RE132D6-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-21			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044485.D	40		12/23/24 17:09	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.0	U	8.40	20.0	40.0	ug/L
74-87-3	Chloromethane	20.0	U	14.0	20.0	40.0	ug/L
75-01-4	Vinyl Chloride	30.0	U	13.6	30.0	40.0	ug/L
74-83-9	Bromomethane	150	U	54.4	150	200	ug/L
75-00-3	Chloroethane	30.0	U	22.4	30.0	40.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	U	13.6	20.0	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	26.6	J	10.0	20.0	40.0	ug/L
75-35-4	1,1-Dichloroethene	15.5	J	10.4	30.0	40.0	ug/L
67-64-1	Acetone	150	U	55.6	150	200	ug/L
75-15-0	Carbon Disulfide	16.8	J	12.8	30.0	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	U	6.40	20.0	40.0	ug/L
79-20-9	Methyl Acetate	30.0	U	24.0	30.0	40.0	ug/L
75-09-2	Methylene Chloride	20.0	U	12.8	20.0	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	U	10.0	20.0	40.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	U	9.20	20.0	40.0	ug/L
110-82-7	Cyclohexane	100	U	64.8	100	200	ug/L
78-93-3	2-Butanone	100	U	52.0	100	200	ug/L
56-23-5	Carbon Tetrachloride	20.0	U	10.0	20.0	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	30.0	U	10.0	30.0	40.0	ug/L
74-97-5	Bromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
67-66-3	Chloroform	20.0	U	10.4	20.0	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	7.60	20.0	40.0	ug/L
108-87-2	Methylcyclohexane	20.0	U	7.60	20.0	40.0	ug/L
71-43-2	Benzene	20.0	U	6.40	20.0	40.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	U	9.60	20.0	40.0	ug/L
79-01-6	Trichloroethene	1600		12.8	30.0	40.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	7.60	20.0	40.0	ug/L
75-27-4	Bromodichloromethane	20.0	U	9.60	20.0	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	U	30.0	100	200	ug/L
108-88-3	Toluene	20.0	U	7.20	20.0	40.0	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RE132D6-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-21			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044485.D	40		12/23/24 17:09	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.0	U	8.40	20.0	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	U	7.20	20.0	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	20.0	U	8.40	20.0	40.0	ug/L
591-78-6	2-Hexanone	100	U	45.2	100	200	ug/L
124-48-1	Dibromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	U	6.40	20.0	40.0	ug/L
127-18-4	Tetrachloroethene	11.6	J	10.0	20.0	40.0	ug/L
108-90-7	Chlorobenzene	20.0	U	5.20	20.0	40.0	ug/L
100-41-4	Ethyl Benzene	20.0	U	6.40	20.0	40.0	ug/L
179601-23-1	m/p-Xylenes	40.0	U	12.4	40.0	80.0	ug/L
95-47-6	o-Xylene	20.0	U	5.60	20.0	40.0	ug/L
100-42-5	Styrene	20.0	U	6.40	20.0	40.0	ug/L
75-25-2	Bromoform	20.0	U	8.40	20.0	40.0	ug/L
98-82-8	Isopropylbenzene	20.0	U	5.20	20.0	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	U	10.8	20.0	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	U	9.60	20.0	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	13.2	J	10.8	20.0	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	U	7.60	20.0	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	30.0	U	18.4	30.0	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	16.8	20.0	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	30.0	U	20.4	30.0	40.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.4		81 - 118		83%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	53.3		89 - 112		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	144000	5.544				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	221000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	102000	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D6-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-21		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044485.D	40		12/23/24 17:09	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24
Client Sample ID:	RE132D7-20241217			SDG No.:	P5317
Lab Sample ID:	P5317-22			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044486.D	40		12/23/24 17:31	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.0	U	8.40	20.0	40.0	ug/L
74-87-3	Chloromethane	20.0	U	14.0	20.0	40.0	ug/L
75-01-4	Vinyl Chloride	30.0	U	13.6	30.0	40.0	ug/L
74-83-9	Bromomethane	150	U	54.4	150	200	ug/L
75-00-3	Chloroethane	30.0	U	22.4	30.0	40.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	U	13.6	20.0	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.4	J	10.0	20.0	40.0	ug/L
75-35-4	1,1-Dichloroethene	30.0	U	10.4	30.0	40.0	ug/L
67-64-1	Acetone	150	U	55.6	150	200	ug/L
75-15-0	Carbon Disulfide	30.0	U	12.8	30.0	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	U	6.40	20.0	40.0	ug/L
79-20-9	Methyl Acetate	30.0	U	24.0	30.0	40.0	ug/L
75-09-2	Methylene Chloride	20.0	U	12.8	20.0	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	U	10.0	20.0	40.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	U	9.20	20.0	40.0	ug/L
110-82-7	Cyclohexane	100	U	64.8	100	200	ug/L
78-93-3	2-Butanone	100	U	52.0	100	200	ug/L
56-23-5	Carbon Tetrachloride	20.0	U	10.0	20.0	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	30.0	U	10.0	30.0	40.0	ug/L
74-97-5	Bromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
67-66-3	Chloroform	20.0	U	10.4	20.0	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	7.60	20.0	40.0	ug/L
108-87-2	Methylcyclohexane	20.0	U	7.60	20.0	40.0	ug/L
71-43-2	Benzene	20.0	U	6.40	20.0	40.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	U	9.60	20.0	40.0	ug/L
79-01-6	Trichloroethene	1100		12.8	30.0	40.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	7.60	20.0	40.0	ug/L
75-27-4	Bromodichloromethane	20.0	U	9.60	20.0	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	U	30.0	100	200	ug/L
108-88-3	Toluene	20.0	U	7.20	20.0	40.0	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RE132D7-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-22			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044486.D	40		12/23/24 17:31	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.0	U	8.40	20.0	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	U	7.20	20.0	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	20.0	U	8.40	20.0	40.0	ug/L
591-78-6	2-Hexanone	100	U	45.2	100	200	ug/L
124-48-1	Dibromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	U	6.40	20.0	40.0	ug/L
127-18-4	Tetrachloroethene	20.0	U	10.0	20.0	40.0	ug/L
108-90-7	Chlorobenzene	20.0	U	5.20	20.0	40.0	ug/L
100-41-4	Ethyl Benzene	20.0	U	6.40	20.0	40.0	ug/L
179601-23-1	m/p-Xylenes	40.0	U	12.4	40.0	80.0	ug/L
95-47-6	o-Xylene	20.0	U	5.60	20.0	40.0	ug/L
100-42-5	Styrene	20.0	U	6.40	20.0	40.0	ug/L
75-25-2	Bromoform	20.0	U	8.40	20.0	40.0	ug/L
98-82-8	Isopropylbenzene	20.0	U	5.20	20.0	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	U	10.8	20.0	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	U	9.60	20.0	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	20.0	U	10.8	20.0	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	U	7.60	20.0	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	30.0	U	18.4	30.0	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	16.8	20.0	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	30.0	U	20.4	30.0	40.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.0		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	53.0		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.544				
540-36-3	1,4-Difluorobenzene	250000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	100000	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D7-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-22		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044486.D	40		12/23/24 17:31	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TB		SDG No.:	P5317	
Lab Sample ID:	P5317-23		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044415.D	1		12/19/24 05:41	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.37	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	TB			SDG No.:	P5317		
Lab Sample ID:	P5317-23			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044415.D	1		12/19/24 05:41	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.4		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	198000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	68400	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	TB		SDG No.:	P5317	
Lab Sample ID:	P5317-23		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044415.D	1		12/19/24 05:41	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	RW8-MW01D2-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-24			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044490.D	1		12/23/24 19:03	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24	
Client Sample ID:	RW8-MW01D2-20241217			SDG No.:	P5317	
Lab Sample ID:	P5317-24			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044490.D	1		12/23/24 19:03	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.5		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	54.4		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	135000	5.544				
540-36-3	1,4-Difluorobenzene	237000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	94100	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01D2-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-24		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044490.D	1		12/23/24 19:03	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01D3-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-25		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044491.D	1		12/23/24 19:26	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.			Date Collected:	12/17/24		
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258			Date Received:	12/17/24		
Client Sample ID:	RW8-MW01D3-20241217			SDG No.:	P5317		
Lab Sample ID:	P5317-25			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044491.D	1		12/23/24 19:26	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.5		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	54.8		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.55				
540-36-3	1,4-Difluorobenzene	232000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	89200	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01D3-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-25		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044491.D	1		12/23/24 19:26	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **P5317**

Client: **AECOM Technical Services, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5317-01	RE114D2-20241216	1,2-Dichloroethane-d4	50	44.7	89	81	118
		Dibromofluoromethane	50	47.9	96	80	119
		Toluene-d8	50	53.1	106	89	112
		4-Bromofluorobenzene	50	48.7	97	85	114
P5317-02	RW4-20241216	1,2-Dichloroethane-d4	50	46.4	93	81	118
		Dibromofluoromethane	50	47.6	95	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	46.5	93	85	114
P5317-02DL	RW4-20241216DL	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	47.4	95	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
P5317-03	TT191D1-20241216	1,2-Dichloroethane-d4	50	42.4	85	81	118
		Dibromofluoromethane	50	47.2	94	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	45.9	92	85	114
P5317-04	TT191D2-20241216	1,2-Dichloroethane-d4	50	44.5	89	81	118
		Dibromofluoromethane	50	47.4	95	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	48.0	96	85	114
P5317-05	TT163S1-20241216	1,2-Dichloroethane-d4	50	45.0	90	81	118
		Dibromofluoromethane	50	48.1	96	80	119
		Toluene-d8	50	52.9	106	89	112
		4-Bromofluorobenzene	50	46.8	94	85	114
P5317-06	DUP-04-20241216	1,2-Dichloroethane-d4	50	42.8	86	81	118
		Dibromofluoromethane	50	48.7	97	80	119
		Toluene-d8	50	52.6	105	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
P5317-07	RW8-MW01S-20241216	1,2-Dichloroethane-d4	50	45.5	91	81	118
		Dibromofluoromethane	50	46.9	94	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5317-08	RW8-MW01D1-20241216	1,2-Dichloroethane-d4	50	45.0	90	81	118
		Dibromofluoromethane	50	46.3	93	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	45.9	92	85	114
P5317-09	TT158S1-20241217	1,2-Dichloroethane-d4	50	45.4	91	81	118
		Dibromofluoromethane	50	47.3	95	80	119
		Toluene-d8	50	51.6	103	89	112
		4-Bromofluorobenzene	50	44.6	89	85	114
P5317-10	TT158I1-20241217	1,2-Dichloroethane-d4	50	44.2	88	81	118
		Dibromofluoromethane	50	47.8	95	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	45.6	91	85	114
P5317-11	DUP-05-20241217	1,2-Dichloroethane-d4	50	44.9	90	81	118
		Dibromofluoromethane	50	49.6	99	80	119
		Toluene-d8	50	55.6	111	89	112
		4-Bromofluorobenzene	50	53.1	106	85	114
P5317-12	TT172S1-20241217	1,2-Dichloroethane-d4	50	45.5	91	81	118
		Dibromofluoromethane	50	47.9	96	80	119

Surrogate Summary

SDG No.: **P5317**

Client: **AECOM Technical Services, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5317-12	TT172S1-20241217	Toluene-d8	50	52.6	105	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
P5317-13	RW9-MW01S-20241217	1,2-Dichloroethane-d4	50	46.3	93	81	118
		Dibromofluoromethane	50	46.9	94	80	119
		Toluene-d8	50	51.4	103	89	112
		4-Bromofluorobenzene	50	47.9	96	85	114
P5317-14	RW9-MW01D1-20241217	1,2-Dichloroethane-d4	50	46.1	92	81	118
		Dibromofluoromethane	50	47.3	95	80	119
		Toluene-d8	50	51.7	103	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5317-15	RW9-MW01D2-20241217	1,2-Dichloroethane-d4	50	45.7	91	81	118
		Dibromofluoromethane	50	48.0	96	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	45.0	90	85	114
P5317-16	RW9-MW01D3-20241217	1,2-Dichloroethane-d4	50	45.4	91	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	51.6	103	89	112
		4-Bromofluorobenzene	50	44.8	90	85	114
P5317-17	DUP-06-20241217	1,2-Dichloroethane-d4	50	44.3	89	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	54.4	109	89	112
		4-Bromofluorobenzene	50	50.2	100	85	114
P5317-18	RE132D5-20241217	1,2-Dichloroethane-d4	50	45.4	91	81	118
		Dibromofluoromethane	50	48.4	97	80	119
		Toluene-d8	50	52.1	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
P5317-18DL	RE132D5-20241217DL	1,2-Dichloroethane-d4	50	44.3	89	81	118
		Dibromofluoromethane	50	52.3	105	80	119
		Toluene-d8	50	55.1	110	89	112
		4-Bromofluorobenzene	50	51.4	103	85	114
P5317-19MS	RE132D5-20241217MS	1,2-Dichloroethane-d4	50	50.1	100	81	118
		Dibromofluoromethane	50	54.5	109	80	119
		Toluene-d8	50	55.2	110	89	112
		4-Bromofluorobenzene	50	54.8	110	85	114
P5317-20MSD	RE132D5-20241217MSD	1,2-Dichloroethane-d4	50	49.1	98	81	118
		Dibromofluoromethane	50	52.6	105	80	119
		Toluene-d8	50	52.5	105	89	112
		4-Bromofluorobenzene	50	53.4	107	85	114
P5317-21	RE132D6-20241217	1,2-Dichloroethane-d4	50	41.4	83	81	118
		Dibromofluoromethane	50	47.8	96	80	119
		Toluene-d8	50	53.3	107	89	112
		4-Bromofluorobenzene	50	50.2	100	85	114
P5317-22	RE132D7-20241217	1,2-Dichloroethane-d4	50	42.0	84	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	53.0	106	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114
P5317-23	TB	1,2-Dichloroethane-d4	50	44.5	89	81	118
		Dibromofluoromethane	50	46.5	93	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	46.2	92	85	114

Surrogate Summary

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5317-24	RW8-MW01D2-20241217	1,2-Dichloroethane-d4	50	43.5	87	81	118
		Dibromofluoromethane	50	49.9	100	80	119
		Toluene-d8	50	54.4	109	89	112
		4-Bromofluorobenzene	50	51.5	103	85	114
P5317-25	RW8-MW01D3-20241217	1,2-Dichloroethane-d4	50	43.5	87	81	118
		Dibromofluoromethane	50	49.2	98	80	119
		Toluene-d8	50	54.8	110	89	112
		4-Bromofluorobenzene	50	50.8	102	85	114
VX1218WBL02	VX1218WBL02	1,2-Dichloroethane-d4	50	43.6	87	81	118
		Dibromofluoromethane	50	48.3	97	80	119
		Toluene-d8	50	51.9	104	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
VX1218WBS02	VX1218WBS02	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	52.7	105	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	48.5	97	85	114
VX1220WBL01	VX1220WBL01	1,2-Dichloroethane-d4	50	44.1	88	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
VX1220WBS01	VX1220WBS01	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	46.4	93	85	114
VX1223WBL01	VX1223WBL01	1,2-Dichloroethane-d4	50	41.8	84	81	118
		Dibromofluoromethane	50	46.7	93	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	45.8	92	85	114
VX1223WBS03	VX1223WBS03	1,2-Dichloroethane-d4	50	43.7	87	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	52.0	104	85	114
VX1231WBL01	VX1231WBL01	1,2-Dichloroethane-d4	50	45.7	91	81	118
		Dibromofluoromethane	50	51.4	103	80	119
		Toluene-d8	50	55.1	110	89	112
		4-Bromofluorobenzene	50	50.8	102	85	114
VX1231WBS01	VX1231WBS01	1,2-Dichloroethane-d4	50	42.4	85	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	50.1	100	85	114

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

										Limits	
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD	Low	High	RPD
		Result			Qual	Qual					
Lab Sample ID :	P5317-19MS	Client Sample ID :	RE132D5-20241217MS					Datafile :	VX044417.D		
Dichlorodifluoromethane	50	1.20	54.6	ug/L	107				32	152	
Chloromethane	50	0.70	56.4	ug/L	111				50	139	
Vinyl chloride	50	0	54.0	ug/L	108				58	137	
Bromomethane	50	0	50.1	ug/L	100				53	141	
Chloroethane	50	0	55.8	ug/L	112				60	138	
Trichlorofluoromethane	50	0	44.0	ug/L	88				65	141	
1,1,2-Trichlorotrifluoroethane	50	9.40	58.1	ug/L	97				70	136	
1,1-Dichloroethene	50	2.60	56.9	ug/L	109				71	131	
Acetone	250	1.40	230	ug/L	91				39	160	
Carbon disulfide	50	0	52.7	ug/L	105				64	133	
Methyl tert-butyl Ether	50	0	49.7	ug/L	99				71	124	
Methyl Acetate	50	0	42.6	ug/L	85				56	136	
Methylene Chloride	50	0	53.3	ug/L	107				74	124	
trans-1,2-Dichloroethene	50	0	53.6	ug/L	107				75	124	
1,1-Dichloroethane	50	0	53.4	ug/L	107				77	125	
Cyclohexane	50	0	51.2	ug/L	102				71	130	
2-Butanone	250	0	250	ug/L	100				56	143	
Carbon Tetrachloride	50	0	51.8	ug/L	104				72	136	
cis-1,2-Dichloroethene	50	1.60	52.6	ug/L	102				78	123	
Bromochloromethane	50	0	50.6	ug/L	101				78	123	
Chloroform	50	1.20	51.3	ug/L	100				79	124	
1,1,1-Trichloroethane	50	0	51.2	ug/L	102				74	131	
Methylcyclohexane	50	0	52.6	ug/L	105				72	132	
Benzene	50	0	55.3	ug/L	111				79	120	
1,2-Dichloroethane	50	0	52.0	ug/L	104				73	128	
Trichloroethene	50	150	190	ug/L	80				79	123	
1,2-Dichloropropane	50	0	52.2	ug/L	104				78	122	
Bromodichloromethane	50	0	54.3	ug/L	109				79	125	
4-Methyl-2-Pentanone	250	0	260	ug/L	104				67	130	
Toluene	50	0	53.4	ug/L	107				80	121	
t-1,3-Dichloropropene	50	0	45.6	ug/L	91				73	127	
cis-1,3-Dichloropropene	50	0	50.1	ug/L	100				75	124	
1,1,2-Trichloroethane	50	0.45	55.0	ug/L	109				80	119	
2-Hexanone	250	0	270	ug/L	108				57	139	
Dibromochloromethane	50	0	50.2	ug/L	100				74	126	
1,2-Dibromoethane	50	0	54.6	ug/L	109				77	121	
Tetrachloroethene	50	0	51.0	ug/L	102				74	129	
Chlorobenzene	50	0	52.1	ug/L	104				82	118	
Ethyl Benzene	50	0	51.7	ug/L	103				79	121	
m/p-Xylenes	100	0	110	ug/L	110				80	121	
o-Xylene	50	0	53.1	ug/L	106				78	122	
Styrene	50	0	54.6	ug/L	109				78	123	
Bromoform	50	0	50.4	ug/L	101				66	130	
Isopropylbenzene	50	0	51.8	ug/L	104				72	131	
1,1,2,2-Tetrachloroethane	50	0	50.8	ug/L	102				71	121	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Qual	RPD	Qual	Low	High	RPD	
1,3-Dichlorobenzene	50	0	52.3	ug/L	105				80	119	
1,4-Dichlorobenzene	50	0	50.9	ug/L	102				79	118	
1,2-Dichlorobenzene	50	0	50.9	ug/L	102				80	119	
1,2-Dibromo-3-Chloropropane	50	0	47.3	ug/L	95				62	128	
1,2,4-Trichlorobenzene	50	0	52.1	ug/L	104				69	130	
1,2,3-Trichlorobenzene	50	0	50.4	ug/L	101				69	129	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

											Limits	
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD	Low	High	RPD	
		Result			Qual	Qual						
Lab Sample ID :	P5317-20MSD	Client Sample ID :	RE132D5-20241217MSD					Datafile :	VX044418.D			
Dichlorodifluoromethane	50	1.20	52.5	ug/L	103		4		32	152	20	
Chloromethane	50	0.70	52.8	ug/L	104		7		50	139	20	
Vinyl chloride	50	0	52.7	ug/L	105		2		58	137	20	
Bromomethane	50	0	51.1	ug/L	102		2		53	141	20	
Chloroethane	50	0	50.0	ug/L	100		11		60	138	20	
Trichlorofluoromethane	50	0	46.5	ug/L	93		6		65	141	20	
1,1,2-Trichlorotrifluoroethane	50	9.40	57.5	ug/L	96		1		70	136	20	
1,1-Dichloroethene	50	2.60	57.1	ug/L	109		0		71	131	20	
Acetone	250	1.40	230	ug/L	91		0		39	160	20	
Carbon disulfide	50	0	54.9	ug/L	110		4		64	133	20	
Methyl tert-butyl Ether	50	0	50.3	ug/L	101		1		71	124	20	
Methyl Acetate	50	0	42.4	ug/L	85		0		56	136	20	
Methylene Chloride	50	0	52.3	ug/L	105		2		74	124	20	
trans-1,2-Dichloroethene	50	0	54.5	ug/L	109		2		75	124	20	
1,1-Dichloroethane	50	0	53.6	ug/L	107		0		77	125	20	
Cyclohexane	50	0	51.8	ug/L	104		1		71	130	20	
2-Butanone	250	0	250	ug/L	100		0		56	143	20	
Carbon Tetrachloride	50	0	52.3	ug/L	105		1		72	136	20	
cis-1,2-Dichloroethene	50	1.60	53.6	ug/L	104		2		78	123	20	
Bromochloromethane	50	0	48.3	ug/L	97		5		78	123	20	
Chloroform	50	1.20	51.3	ug/L	100		0		79	124	20	
1,1,1-Trichloroethane	50	0	51.5	ug/L	103		1		74	131	20	
Methylcyclohexane	50	0	49.2	ug/L	98		7		72	132	20	
Benzene	50	0	53.4	ug/L	107		3		79	120	20	
1,2-Dichloroethane	50	0	50.5	ug/L	101		3		73	128	20	
Trichloroethene	50	150	190	ug/L	80		0		79	123	20	
1,2-Dichloropropane	50	0	51.7	ug/L	103		1		78	122	20	
Bromodichloromethane	50	0	53.9	ug/L	108		1		79	125	20	
4-Methyl-2-Pentanone	250	0	260	ug/L	104		0		67	130	20	
Toluene	50	0	52.9	ug/L	106		1		80	121	20	
t-1,3-Dichloropropene	50	0	46.0	ug/L	92		1		73	127	20	
cis-1,3-Dichloropropene	50	0	49.9	ug/L	100		0		75	124	20	
1,1,2-Trichloroethane	50	0.45	54.8	ug/L	109		0		80	119	20	
2-Hexanone	250	0	260	ug/L	104		4		57	139	20	
Dibromochloromethane	50	0	50.9	ug/L	102		1		74	126	20	
1,2-Dibromoethane	50	0	54.7	ug/L	109		0		77	121	20	
Tetrachloroethene	50	0	49.8	ug/L	100		2		74	129	20	
Chlorobenzene	50	0	51.2	ug/L	102		2		82	118	20	
Ethyl Benzene	50	0	51.4	ug/L	103		1		79	121	20	
m/p-Xylenes	100	0	110	ug/L	110		0		80	121	20	
o-Xylene	50	0	52.4	ug/L	105		1		78	122	20	
Styrene	50	0	54.0	ug/L	108		1		78	123	20	
Bromoform	50	0	50.9	ug/L	102		1		66	130	20	
Isopropylbenzene	50	0	50.3	ug/L	101		3		72	131	20	
1,1,2,2-Tetrachloroethane	50	0	50.9	ug/L	102		0		71	121	20	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec			RPD	Limits		
					Rec	Qual	RPD	Qual	Low	High	RPD
1,3-Dichlorobenzene	50	0	51.9	ug/L	104		1		80	119	20
1,4-Dichlorobenzene	50	0	50.9	ug/L	102		0		79	118	20
1,2-Dichlorobenzene	50	0	50.8	ug/L	102		0		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	49.7	ug/L	99		5		62	128	20
1,2,4-Trichlorobenzene	50	0	51.6	ug/L	103		1		69	130	20
1,2,3-Trichlorobenzene	50	0	52.1	ug/L	104		3		69	129	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044399.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1218WBS02	Dichlorodifluoromethane	20	19.0	ug/L	95			32	152	
	Chloromethane	20	21.4	ug/L	107			50	139	
	Vinyl chloride	20	20.6	ug/L	103			58	137	
	Bromomethane	20	20.5	ug/L	103			53	141	
	Chloroethane	20	24.3	ug/L	121			60	138	
	Trichlorofluoromethane	20	15.9	ug/L	79			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.9	ug/L	90			70	136	
	1,1-Dichloroethene	20	20.1	ug/L	101			71	131	
	Acetone	100	94.1	ug/L	94			39	160	
	Carbon disulfide	20	18.8	ug/L	94			64	133	
	Methyl tert-butyl Ether	20	20.4	ug/L	102			71	124	
	Methyl Acetate	20	21.3	ug/L	106			56	136	
	Methylene Chloride	20	21.2	ug/L	106			74	124	
	trans-1,2-Dichloroethene	20	19.8	ug/L	99			75	124	
	1,1-Dichloroethane	20	21.4	ug/L	107			77	125	
	Cyclohexane	20	17.8	ug/L	89			71	130	
	2-Butanone	100	100	ug/L	100			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	cis-1,2-Dichloroethene	20	20.4	ug/L	102			78	123	
	Bromochloromethane	20	20.8	ug/L	104			78	123	
	Chloroform	20	20.3	ug/L	102			79	124	
	1,1,1-Trichloroethane	20	19.5	ug/L	98			74	131	
	Methylcyclohexane	20	17.7	ug/L	89			72	132	
	Benzene	20	20.8	ug/L	104			79	120	
	1,2-Dichloroethane	20	20.6	ug/L	103			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	20.7	ug/L	104			78	122	
	Bromodichloromethane	20	20.7	ug/L	104			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.0	ug/L	100			80	121	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			73	127	
	cis-1,3-Dichloropropene	20	19.3	ug/L	97			75	124	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	19.4	ug/L	97			74	126	
	1,2-Dibromoethane	20	21.7	ug/L	109			77	121	
	Tetrachloroethene	20	18.9	ug/L	95			74	129	
	Chlorobenzene	20	19.1	ug/L	96			82	118	
	Ethyl Benzene	20	18.8	ug/L	94			79	121	
	m/p-Xylenes	40	38.0	ug/L	95			80	121	
	o-Xylene	20	19.1	ug/L	96			78	122	
	Styrene	20	19.7	ug/L	99			78	123	
	Bromoform	20	20.0	ug/L	100			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	22.0	ug/L	110			71	121	
	1,3-Dichlorobenzene	20	19.8	ug/L	99			80	119	
	1,4-Dichlorobenzene	20	19.6	ug/L	98			79	118	
	1,2-Dichlorobenzene	20	20.1	ug/L	101			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044399.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1218WBS02	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			62	128	
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			69	130	
	1,2,3-Trichlorobenzene	20	19.8	ug/L	99			69	129	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1220WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			32	152	
	Chloromethane	20	18.7	ug/L	94			50	139	
	Vinyl chloride	20	17.9	ug/L	90			58	137	
	Bromomethane	20	18.8	ug/L	94			53	141	
	Chloroethane	20	19.8	ug/L	99			60	138	
	Trichlorofluoromethane	20	15.3	ug/L	77			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.9	ug/L	95			71	131	
	Acetone	100	75.7	ug/L	76			39	160	
	Carbon disulfide	20	16.4	ug/L	82			64	133	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			71	124	
	Methyl Acetate	20	17.7	ug/L	89			56	136	
	Methylene Chloride	20	19.1	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	18.9	ug/L	95			77	125	
	Cyclohexane	20	17.6	ug/L	88			71	130	
	2-Butanone	100	83.3	ug/L	83			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			78	123	
	Bromochloromethane	20	15.8	ug/L	79			78	123	
	Chloroform	20	17.7	ug/L	89			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	19.3	ug/L	97			72	132	
	Benzene	20	20.4	ug/L	102			79	120	
	1,2-Dichloroethane	20	19.2	ug/L	96			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.1	ug/L	96			78	122	
	Bromodichloromethane	20	19.1	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	92.4	ug/L	92			67	130	
	Toluene	20	19.5	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			80	119	
	2-Hexanone	100	90.4	ug/L	90			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	1,2-Dibromoethane	20	20.2	ug/L	101			77	121	
	Tetrachloroethene	20	20.8	ug/L	104			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	19.2	ug/L	96			79	121	
	m/p-Xylenes	40	39.8	ug/L	100			80	121	
	o-Xylene	20	19.8	ug/L	99			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	19.3	ug/L	97			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	20.0	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1220WBS01	1,2-Dibromo-3-Chloropropane	20	16.5	ug/L	83			62	128	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			69	130	
	1,2,3-Trichlorobenzene	20	19.4	ug/L	97			69	129	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044484.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1223WBS03	Dichlorodifluoromethane	20	16.9	ug/L	85			32	152	20
	Chloromethane	20	17.1	ug/L	86			50	139	20
	Vinyl chloride	20	17.2	ug/L	86			58	137	20
	Bromomethane	20	16.6	ug/L	83			53	141	20
	Chloroethane	20	17.1	ug/L	86			60	138	20
	Trichlorofluoromethane	20	13.8	ug/L	69			65	141	20
	1,1,2-Trichlorotrifluoroethane	20	17.5	ug/L	88			70	136	20
	1,1-Dichloroethene	20	18.2	ug/L	91			71	131	20
	Acetone	100	65.8	ug/L	66			39	160	20
	Carbon disulfide	20	17.5	ug/L	88			64	133	20
	Methyl tert-butyl Ether	20	16.3	ug/L	81			71	124	20
	Methyl Acetate	20	15.0	ug/L	75			56	136	20
	Methylene Chloride	20	18.0	ug/L	90			74	124	20
	trans-1,2-Dichloroethene	20	17.1	ug/L	86			75	124	20
	1,1-Dichloroethane	20	17.3	ug/L	86			77	125	20
	Cyclohexane	20	17.0	ug/L	85			71	130	20
	2-Butanone	100	69.6	ug/L	70			56	143	20
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	20
	cis-1,2-Dichloroethene	20	17.8	ug/L	89			78	123	20
	Bromochloromethane	20	18.7	ug/L	94			78	123	20
	Chloroform	20	16.8	ug/L	84			79	124	20
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	20
	Methylcyclohexane	20	18.3	ug/L	92			72	132	20
	Benzene	20	19.3	ug/L	97			79	120	20
	1,2-Dichloroethane	20	18.6	ug/L	93			73	128	20
	Trichloroethene	20	20.8	ug/L	104			79	123	20
	1,2-Dichloropropane	20	18.7	ug/L	94			78	122	20
	Bromodichloromethane	20	18.5	ug/L	93			79	125	20
	4-Methyl-2-Pentanone	100	79.0	ug/L	79			67	130	20
	Toluene	20	19.7	ug/L	99			80	121	20
	t-1,3-Dichloropropene	20	18.3	ug/L	92			73	127	20
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			75	124	20
	1,1,2-Trichloroethane	20	19.4	ug/L	97			80	119	20
	2-Hexanone	100	78.2	ug/L	78			57	139	20
	Dibromochloromethane	20	18.3	ug/L	92			74	126	20
	1,2-Dibromoethane	20	19.5	ug/L	98			77	121	20
	Tetrachloroethene	20	21.5	ug/L	108			74	129	20
	Chlorobenzene	20	19.9	ug/L	100			82	118	20
	Ethyl Benzene	20	19.6	ug/L	98			79	121	20
	m/p-Xylenes	40	40.6	ug/L	102			80	121	20
	o-Xylene	20	19.5	ug/L	98			78	122	20
	Styrene	20	19.6	ug/L	98			78	123	20
	Bromoform	20	19.2	ug/L	96			66	130	20
	Isopropylbenzene	20	19.1	ug/L	96			72	131	20
	1,1,2,2-Tetrachloroethane	20	18.0	ug/L	90			71	121	20
	1,3-Dichlorobenzene	20	20.2	ug/L	101			80	119	20
	1,4-Dichlorobenzene	20	19.7	ug/L	99			79	118	20
	1,2-Dichlorobenzene	20	19.5	ug/L	98			80	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044484.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1223WBS03	1,2-Dibromo-3-Chloropropane	20	14.7	ug/L	74			62	128	20
	1,2,4-Trichlorobenzene	20	20.5	ug/L	103			69	130	20
	1,2,3-Trichlorobenzene	20	20.7	ug/L	104			69	129	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Datafile : VX044543.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1231WBS01	Dichlorodifluoromethane	20	16.4	ug/L	82			32	152	
	Chloromethane	20	15.8	ug/L	79			50	139	
	Vinyl chloride	20	16.6	ug/L	83			58	137	
	Bromomethane	20	15.6	ug/L	78			53	141	
	Chloroethane	20	17.2	ug/L	86			60	138	
	Trichlorofluoromethane	20	14.9	ug/L	75			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.2	ug/L	91			70	136	
	1,1-Dichloroethene	20	18.6	ug/L	93			71	131	
	Acetone	100	74.3	ug/L	74			39	160	
	Carbon disulfide	20	14.7	ug/L	74			64	133	
	Methyl tert-butyl Ether	20	16.6	ug/L	83			71	124	
	Methyl Acetate	20	17.6	ug/L	88			56	136	
	Methylene Chloride	20	17.4	ug/L	87			74	124	
	trans-1,2-Dichloroethene	20	17.2	ug/L	86			75	124	
	1,1-Dichloroethane	20	17.4	ug/L	87			77	125	
	Cyclohexane	20	16.4	ug/L	82			71	130	
	2-Butanone	100	80.3	ug/L	80			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	17.2	ug/L	86			78	123	
	Bromochloromethane	20	16.9	ug/L	85			78	123	
	Chloroform	20	16.8	ug/L	84			79	124	
	1,1,1-Trichloroethane	20	16.9	ug/L	85			74	131	
	Methylcyclohexane	20	19.1	ug/L	96			72	132	
	Benzene	20	19.3	ug/L	97			79	120	
	1,2-Dichloroethane	20	18.7	ug/L	94			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	18.8	ug/L	94			78	122	
	Bromodichloromethane	20	18.7	ug/L	94			79	125	
	4-Methyl-2-Pentanone	100	90.7	ug/L	91			67	130	
	Toluene	20	18.9	ug/L	95			80	121	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	20.2	ug/L	101			80	119	
	2-Hexanone	100	91.0	ug/L	91			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	1,2-Dibromoethane	20	20.0	ug/L	100			77	121	
	Tetrachloroethene	20	20.7	ug/L	104			74	129	
	Chlorobenzene	20	19.3	ug/L	97			82	118	
	Ethyl Benzene	20	19.0	ug/L	95			79	121	
	m/p-Xylenes	40	39.4	ug/L	99			80	121	
	o-Xylene	20	19.1	ug/L	96			78	122	
	Styrene	20	19.5	ug/L	98			78	123	
	Bromoform	20	20.0	ug/L	100			66	130	
	Isopropylbenzene	20	19.5	ug/L	98			72	131	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			71	121	
	1,3-Dichlorobenzene	20	20.5	ug/L	103			80	119	
	1,4-Dichlorobenzene	20	20.0	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.4	ug/L	97			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317
Client: AECOM Technical Services, Inc.
Analytical Method: SW8260-Low **Datafile :** VX044543.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1231WBS01	1,2-Dibromo-3-Chloropropane	20	16.6	ug/L	83			62	128	
	1,2,4-Trichlorobenzene	20	20.7	ug/L	104			69	130	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			69	129	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1218WBL02

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5317

SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044398.D

Lab Sample ID: VX1218WBL02

Date Analyzed: 12/18/2024

Time Analyzed: 22:59

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1218WBS02	VX1218WBS02	VX044399.D	12/18/2024
RE114D2-20241216	P5317-01	VX044401.D	12/19/2024
RW4-20241216	P5317-02	VX044402.D	12/19/2024
TT191D2-20241216	P5317-04	VX044404.D	12/19/2024
TT163S1-20241216	P5317-05	VX044405.D	12/19/2024
RW8-MW01S-20241216	P5317-07	VX044406.D	12/19/2024
RW8-MW01D1-20241216	P5317-08	VX044407.D	12/19/2024
TT158S1-20241217	P5317-09	VX044408.D	12/19/2024
TT158I1-20241217	P5317-10	VX044409.D	12/19/2024
TT172S1-20241217	P5317-12	VX044410.D	12/19/2024
RW9-MW01S-20241217	P5317-13	VX044411.D	12/19/2024
RW9-MW01D1-20241217	P5317-14	VX044412.D	12/19/2024
RW9-MW01D2-20241217	P5317-15	VX044413.D	12/19/2024
RW9-MW01D3-20241217	P5317-16	VX044414.D	12/19/2024
TB	P5317-23	VX044415.D	12/19/2024
RE132D5-20241217	P5317-18	VX044416.D	12/19/2024
RE132D5-20241217MS	P5317-19MS	VX044417.D	12/19/2024
RE132D5-20241217MSD	P5317-20MSD	VX044418.D	12/19/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1220WBL01

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5317

SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044440.D

Lab Sample ID: VX1220WBL01

Date Analyzed: 12/20/2024

Time Analyzed: 10:23

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024
RW4-20241216DL	P5317-02DL	VX044450.D	12/20/2024
TT191D1-20241216	P5317-03	VX044452.D	12/20/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1223WBL01

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5317

SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044468.D

Lab Sample ID: VX1223WBL01

Date Analyzed: 12/23/2024

Time Analyzed: 09:46

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1223WBS03	VX1223WBS03	VX044484.D	12/23/2024
RE132D6-20241217	P5317-21	VX044485.D	12/23/2024
RE132D7-20241217	P5317-22	VX044486.D	12/23/2024
DUP-04-20241216	P5317-06	VX044487.D	12/23/2024
DUP-05-20241217	P5317-11	VX044488.D	12/23/2024
DUP-06-20241217	P5317-17	VX044489.D	12/23/2024
RW8-MW01D2-20241217	P5317-24	VX044490.D	12/23/2024
RW8-MW01D3-20241217	P5317-25	VX044491.D	12/23/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1231WBL01

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5317

SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044542.D

Lab Sample ID: VX1231WBL01

Date Analyzed: 12/30/2024

Time Analyzed: 14:26

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1231WBS01	VX1231WBS01	VX044543.D	12/30/2024
RE132D5-20241217DL	P5317-18DL	VX044545.D	12/30/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044218.D BFB Injection Date: 12/11/2024
Instrument ID: MSVOA_X BFB Injection Time: 10:13
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX044219.D	12/11/2024	10:41
VSTDIC005	VSTDIC005	VX044220.D	12/11/2024	11:27
VSTDIC020	VSTDIC020	VX044221.D	12/11/2024	11:50
VSTDIC050	VSTDIC050	VX044222.D	12/11/2024	12:14
VSTDIC100	VSTDIC100	VX044223.D	12/11/2024	12:37
VSTDIC150	VSTDIC150	VX044224.D	12/11/2024	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044396.D BFB Injection Date: 12/18/2024
Instrument ID: MSVOA_X BFB Injection Time: 21:02
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	78.2
175	5.0 - 9.0% of mass 174	5.4 (6.9) 1
176	95.0 - 101.0% of mass 174	74.4 (95.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044397.D	12/18/2024	21:48
VX1218WBL02	VX1218WBL02	VX044398.D	12/18/2024	22:59
VX1218WBS02	VX1218WBS02	VX044399.D	12/18/2024	23:22
RE114D2-20241216	P5317-01	VX044401.D	12/19/2024	00:13
RW4-20241216	P5317-02	VX044402.D	12/19/2024	00:37
TT191D2-20241216	P5317-04	VX044404.D	12/19/2024	01:24
TT163S1-20241216	P5317-05	VX044405.D	12/19/2024	01:47
RW8-MW01S-20241216	P5317-07	VX044406.D	12/19/2024	02:10
RW8-MW01D1-20241216	P5317-08	VX044407.D	12/19/2024	02:34
TT158S1-20241217	P5317-09	VX044408.D	12/19/2024	02:57
TT158I1-20241217	P5317-10	VX044409.D	12/19/2024	03:21
TT172S1-20241217	P5317-12	VX044410.D	12/19/2024	03:44
RW9-MW01S-20241217	P5317-13	VX044411.D	12/19/2024	04:07
RW9-MW01D1-20241217	P5317-14	VX044412.D	12/19/2024	04:31
RW9-MW01D2-20241217	P5317-15	VX044413.D	12/19/2024	04:54
RW9-MW01D3-20241217	P5317-16	VX044414.D	12/19/2024	05:17
TB	P5317-23	VX044415.D	12/19/2024	05:41
RE132D5-20241217	P5317-18	VX044416.D	12/19/2024	06:04

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044396.D BFB Injection Date: 12/18/2024
Instrument ID: MSVOA_X BFB Injection Time: 21:02
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	78.2
175	5.0 - 9.0% of mass 174	5.4 (6.9) 1
176	95.0 - 101.0% of mass 174	74.4 (95.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
RE132D5-20241217MS	P5317-19MS	VX044417.D	12/19/2024	06:28
RE132D5-20241217MSD	P5317-20MSD	VX044418.D	12/19/2024	06:51
VSTDCCC050EC	VSTDCCC050	VX044419.D	12/19/2024	07:14

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044437.D BFB Injection Date: 12/20/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:49
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.6 (7.2) 1
176	95.0 - 101.0% of mass 174	76.6 (98.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044438.D	12/20/2024	09:16
VX1220WBL01	VX1220WBL01	VX044440.D	12/20/2024	10:23
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024	10:46
RW4-20241216DL	P5317-02DL	VX044450.D	12/20/2024	14:23
TT191D1-20241216	P5317-03	VX044452.D	12/20/2024	15:09
VSTDCCC050EC	VSTDCCC050	VX044464.D	12/20/2024	19:49

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044465.D BFB Injection Date: 12/23/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:19
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	75.4 (97.2) 1
177	5.0 - 9.0% of mass 176	4.3 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044466.D	12/23/2024	08:49
VX1223WBL01	VX1223WBL01	VX044468.D	12/23/2024	09:46
VX1223WBS03	VX1223WBS03	VX044484.D	12/23/2024	16:46
RE132D6-20241217	P5317-21	VX044485.D	12/23/2024	17:09
RE132D7-20241217	P5317-22	VX044486.D	12/23/2024	17:31
DUP-04-20241216	P5317-06	VX044487.D	12/23/2024	17:54
DUP-05-20241217	P5317-11	VX044488.D	12/23/2024	18:17
DUP-06-20241217	P5317-17	VX044489.D	12/23/2024	18:40
RW8-MW01D2-20241217	P5317-24	VX044490.D	12/23/2024	19:03
RW8-MW01D3-20241217	P5317-25	VX044491.D	12/23/2024	19:26
VSTDCCC050EC	VSTDCCC050	VX044492.D	12/23/2024	19:49

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044539.D BFB Injection Date: 12/30/2024
Instrument ID: MSVOA_X BFB Injection Time: 12:39
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	6.2 (8.2) 1
176	95.0 - 101.0% of mass 174	74.8 (99.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044540.D	12/30/2024	13:07
VX1231WBL01	VX1231WBL01	VX044542.D	12/30/2024	14:26
VX1231WBS01	VX1231WBS01	VX044543.D	12/30/2024	14:54
RE132D5-20241217DL	P5317-18DL	VX044545.D	12/30/2024	15:45
VSTDCCC050EC	VSTDCCC050	VX044566.D	12/30/2024	23:54

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044397.D Date Analyzed: 12/18/2024
Instrument ID: MSVOA_X Time Analyzed: 21:48
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	135217	5.54	239936	6.76	204282	10.06
UPPER LIMIT	270434	6.044	479872	7.257	408564	10.555
LOWER LIMIT	67608.5	5.044	119968	6.257	102141	9.555
EPA SAMPLE NO.						
RE114D2-20241216	107762	5.55	195811	6.76	176405	10.06
RW4-20241216	108595	5.55	199832	6.76	172545	10.06
TT191D2-20241216	108502	5.55	198842	6.76	177204	10.06
TT163S1-20241216	107084	5.55	188252	6.76	168467	10.06
RW8-MW01S-20241216	108582	5.54	195784	6.76	169226	10.06
RW8-MW01D1-20241216	111969	5.55	205674	6.76	179449	10.06
TT158S1-20241217	107112	5.55	197035	6.76	171282	10.06
TT158I1-20241217	108444	5.54	193059	6.76	169424	10.06
TT172S1-20241217	106531	5.54	190393	6.76	168278	10.06
RW9-MW01S-20241217	106718	5.55	197494	6.76	178573	10.06
RW9-MW01D1-20241217	111175	5.55	207120	6.76	180812	10.06
RW9-MW01D2-20241217	104505	5.55	188770	6.76	164946	10.06
RW9-MW01D3-20241217	107842	5.55	195942	6.76	171336	10.06
RE132D5-20241217	104497	5.54	189474	6.76	170677	10.06
RE132D5-20241217MS	120579	5.55	213617	6.76	190465	10.06
RE132D5-20241217MSD	116949	5.55	212543	6.76	188325	10.06
TB	109432	5.55	198449	6.76	170843	10.06
VX1218WBL02	114674	5.55	206506	6.76	183436	10.06
VX1218WBS02	128991	5.55	233001	6.76	200137	10.06

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044397.D Date Analyzed: 12/18/2024
Instrument ID: MSVOA_X Time Analyzed: 21:48
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	135217	5.54	239936	6.76	204282	10.06
UPPER LIMIT	270434	6.044	479872	7.257	408564	10.555
LOWER LIMIT	67608.5	5.044	119968	6.257	102141	9.555
EPA SAMPLE NO.						

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044397.D Date Analyzed: 12/18/2024
Instrument ID: MSVOA_X Time Analyzed: 21:48
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	94679	12.018				
UPPER LIMIT	189358	12.518				
LOWER LIMIT	47339.5	11.518				
EPA SAMPLE NO.						
RE114D2-20241216	72683	12.02				
RW4-20241216	70176	12.02				
TT191D2-20241216	73178	12.02				
TT163S1-20241216	67456	12.02				
RW8-MW01S-20241216	66576	12.02				
RW8-MW01D1-20241216	71479	12.02				
TT158S1-20241217	65660	12.02				
TT158I1-20241217	64056	12.02				
TT172S1-20241217	68296	12.02				
RW9-MW01S-20241217	73713	12.02				
RW9-MW01D1-20241217	74025	12.02				
RW9-MW01D2-20241217	62374	12.02				
RW9-MW01D3-20241217	67520	12.02				
RE132D5-20241217	71901	12.02				
RE132D5-20241217MS	89259	12.02				
RE132D5-20241217MSD	88743	12.02				
TB	68420	12.02				
VX1218WBL02	77360	12.02				
VX1218WBS02	86763	12.02				

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
 Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
 Lab File ID: VX044397.D Date Analyzed: 12/18/2024
 Instrument ID: MSVOA_X Time Analyzed: 21:48
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	94679	12.018				
UPPER LIMIT	189358	12.518				
LOWER LIMIT	47339.5	11.518				
EPA SAMPLE NO.						

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044438.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_X Time Analyzed: 09:16
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	136445	5.54	226018	6.76	197543	10.06
UPPER LIMIT	272890	6.044	452036	7.257	395086	10.555
LOWER LIMIT	68222.5	5.044	113009	6.257	98771.5	9.555
EPA SAMPLE NO.						
RW4-20241216DL	123451	5.55	220282	6.76	193072	10.06
TT191D1-20241216	118996	5.55	210803	6.76	181303	10.06
VX1220WBL01	120864	5.55	218417	6.76	193836	10.05
VX1220WBS01	146515	5.55	249173	6.76	212384	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044438.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_X Time Analyzed: 09:16
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	95339	12.018				
UPPER LIMIT	190678	12.518				
LOWER LIMIT	47669.5	11.518				
EPA SAMPLE NO.						
RW4-20241216DL	79195	12.02				
TT191D1-20241216	72773	12.02				
VX1220WBL01	81005	12.02				
VX1220WBS01	96885	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044466.D Date Analyzed: 12/23/2024
Instrument ID: MSVOA_X Time Analyzed: 08:49
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	98270	5.54	155098	6.75	129773	10.05
UPPER LIMIT	196540	6.044	310196	7.251	259546	10.549
LOWER LIMIT	49135	5.044	77549	6.251	64886.5	9.549
EPA SAMPLE NO.						
DUP-04-20241216	141229	5.55	244942	6.76	208216	10.05
DUP-05-20241217	132450	5.54	232737	6.76	211937	10.06
DUP-06-20241217	128956	5.54	226548	6.76	197304	10.06
RE132D6-20241217	144075	5.54	249365	6.76	221444	10.05
RE132D7-20241217	146702	5.54	250392	6.76	212795	10.05
RW8-MW01D2-20241217	134770	5.54	236910	6.76	213239	10.05
RW8-MW01D3-20241217	131619	5.55	231647	6.76	212925	10.05
VX1223WBL01	153955	5.54	275095	6.76	235868	10.05
VX1223WBS03	136426	5.54	230675	6.76	197773	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044466.D Date Analyzed: 12/23/2024
Instrument ID: MSVOA_X Time Analyzed: 08:49
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	59280	12.018				
UPPER LIMIT	118560	12.518				
LOWER LIMIT	29640	11.518				
EPA SAMPLE NO.						
DUP-04-20241216	92708	12.02				
DUP-05-20241217	95898	12.02				
DUP-06-20241217	84907	12.02				
RE132D6-20241217	102248	12.02				
RE132D7-20241217	100422	12.02				
RW8-MW01D2-20241217	94135	12.02				
RW8-MW01D3-20241217	89186	12.02				
VX1223WBL01	97837	12.02				
VX1223WBS03	93712	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044540.D Date Analyzed: 12/30/2024
Instrument ID: MSVOA_X Time Analyzed: 13:07
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	137969	5.54	223553	6.76	195826	10.06
UPPER LIMIT	275938	6.044	447106	7.257	391652	10.555
LOWER LIMIT	68984.5	5.044	111777	6.257	97913	9.555
EPA SAMPLE NO.						
RE132D5-20241217DL	117987	5.55	200283	6.76	179426	10.06
VX1231WBL01	117464	5.55	200538	6.76	172503	10.06
VX1231WBS01	153746	5.54	254154	6.76	219785	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317
Lab File ID: VX044540.D Date Analyzed: 12/30/2024
Instrument ID: MSVOA_X Time Analyzed: 13:07
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	98470	12.018				
UPPER LIMIT	196940	12.518				
LOWER LIMIT	49235	11.518				
EPA SAMPLE NO.						
RE132D5-20241217DL	75456	12.02				
VX1231WBL01	71731	12.02				
VX1231WBS01	100843	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1218WBL02		SDG No.:	P5317
Lab Sample ID:	VX1218WBL02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044398.D	1		12/18/24 22:59	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1218WBL02		SDG No.:	P5317
Lab Sample ID:	VX1218WBL02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044398.D	1		12/18/24 22:59	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	115000	5.55				
540-36-3	1,4-Difluorobenzene	207000	6.757				
3114-55-4	Chlorobenzene-d5	183000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	77400	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1218WBL02		SDG No.:	P5317
Lab Sample ID:	VX1218WBL02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044398.D	1		12/18/24 22:59	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1220WBL01		SDG No.:	P5317
Lab Sample ID:	VX1220WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1220WBL01		SDG No.:	P5317
Lab Sample ID:	VX1220WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.1		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	194000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	81000	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1220WBL01		SDG No.:	P5317
Lab Sample ID:	VX1220WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1223WBL01		SDG No.:	P5317
Lab Sample ID:	VX1223WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1223WBL01		SDG No.:	P5317
Lab Sample ID:	VX1223WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.8		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.544				
540-36-3	1,4-Difluorobenzene	275000	6.757				
3114-55-4	Chlorobenzene-d5	236000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	97800	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1223WBL01		SDG No.:	P5317
Lab Sample ID:	VX1223WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1231WBL01		SDG No.:	P5317
Lab Sample ID:	VX1231WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044542.D	1		12/30/24 14:26	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1231WBL01		SDG No.:	P5317
Lab Sample ID:	VX1231WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044542.D	1		12/30/24 14:26	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.7		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	55.2		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.55				
540-36-3	1,4-Difluorobenzene	201000	6.757				
3114-55-4	Chlorobenzene-d5	173000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71700	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1231WBL01		SDG No.:	P5317
Lab Sample ID:	VX1231WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044542.D	1		12/30/24 14:26	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1218WBS02		SDG No.:	P5317
Lab Sample ID:	VX1218WBS02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044399.D	1		12/18/24 23:22	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.0		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	21.4		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.6		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	24.3		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	94.1		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	21.3		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	21.2		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.4		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.8		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	100		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	20.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.0		0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1218WBS02		SDG No.:	P5317
Lab Sample ID:	VX1218WBS02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044399.D	1		12/18/24 23:22	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	19.4		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.7		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.7		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.0		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.8		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.8		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	129000	5.55				
540-36-3	1,4-Difluorobenzene	233000	6.757				
3114-55-4	Chlorobenzene-d5	200000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	86800	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1218WBS02		SDG No.:	P5317
Lab Sample ID:	VX1218WBS02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044399.D	1		12/18/24 23:22	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1220WBS01		SDG No.:	P5317
Lab Sample ID:	VX1220WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.5		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.3		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	75.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	17.7		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.6		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	83.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	15.8		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	17.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.4		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1220WBS01		SDG No.:	P5317
Lab Sample ID:	VX1220WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	90.4		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.4		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.55				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96900	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1220WBS01		SDG No.:	P5317
Lab Sample ID:	VX1220WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1231WBS01		SDG No.:	P5317
Lab Sample ID:	VX1231WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044543.D	1		12/30/24 14:54	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	16.4		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	15.8		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.6		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	15.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.2		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	14.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.2		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	74.3		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	14.7		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	17.6		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	17.4		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.2		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.4		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	16.4		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	80.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.2		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	16.9		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	16.8		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.9		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.8		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.7		0.75	2.50	5.00	ug/L
108-88-3	Toluene	18.9		0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1231WBS01		SDG No.:	P5317
Lab Sample ID:	VX1231WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044543.D	1		12/30/24 14:54	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	91.0		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.0		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.7		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.4		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.5		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.0		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.5		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.5		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.7		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.4		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.543				
540-36-3	1,4-Difluorobenzene	254000	6.757				
3114-55-4	Chlorobenzene-d5	220000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	101000	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1231WBS01		SDG No.:	P5317
Lab Sample ID:	VX1231WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044543.D	1		12/30/24 14:54	VX123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1223WBS03		SDG No.:	P5317
Lab Sample ID:	VX1223WBS03		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044484.D	1		12/23/24 16:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	16.9		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	17.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	16.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.1		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	13.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.26	0.75	1.00	ug/L
67-64-1	Acetone	65.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	15.0		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	18.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.1		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.3		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.0		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	69.6		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.8		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	18.7		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	16.8		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.5		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	79.0		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.7		0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1223WBS03		SDG No.:	P5317
Lab Sample ID:	VX1223WBS03		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044484.D	1		12/23/24 16:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	78.2		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.5		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.1		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	14.7		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.5		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.7		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.7		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.4		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	136000	5.544				
540-36-3	1,4-Difluorobenzene	231000	6.757				
3114-55-4	Chlorobenzene-d5	198000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	93700	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	VX1223WBS03		SDG No.:	P5317
Lab Sample ID:	VX1223WBS03		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044484.D	1		12/23/24 16:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217MS		SDG No.:	P5317	
Lab Sample ID:	P5317-19MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044417.D	1		12/19/24 06:28	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	54.6		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	56.4		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	54.0		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	50.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	55.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	44.0		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	58.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	56.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	230		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	52.7		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	49.7		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	42.6		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	53.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	53.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	53.4		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.2		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	250		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	51.8		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.6		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	50.6		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	51.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	51.2		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	52.6		0.19	0.50	1.00	ug/L
71-43-2	Benzene	55.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	52.0		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	190	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	52.2		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	54.3		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.75	2.50	5.00	ug/L
108-88-3	Toluene	53.4		0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217MS		SDG No.:	P5317	
Lab Sample ID:	P5317-19MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044417.D	1		12/19/24 06:28	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	45.6		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	50.1		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	55.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	270		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	50.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	54.6		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	51.0		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	52.1		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	51.7		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	53.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	54.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	50.4		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	51.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.8		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.3		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.9		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.9		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	47.3		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.1		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.4		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.1		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		80 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	55.2		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.8		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	214000	6.757				
3114-55-4	Chlorobenzene-d5	190000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	89300	12.018				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217MS		SDG No.:	P5317	
Lab Sample ID:	P5317-19MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044417.D	1		12/19/24 06:28	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217MSD		SDG No.:	P5317	
Lab Sample ID:	P5317-20MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044418.D	1		12/19/24 06:51	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	52.5		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	52.8		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	52.7		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	51.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	50.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	46.5		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	57.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	57.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	230		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	54.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	50.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	42.4		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	52.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	54.5		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	53.6		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.8		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	250		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.6		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	48.3		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	51.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	51.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	49.2		0.19	0.50	1.00	ug/L
71-43-2	Benzene	53.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	50.5		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	190	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	51.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.9		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.75	2.50	5.00	ug/L
108-88-3	Toluene	52.9		0.18	0.50	1.00	ug/L

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217MSD		SDG No.:	P5317	
Lab Sample ID:	P5317-20MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044418.D	1		12/19/24 06:51	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	46.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.9		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	260		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	50.9		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	54.7		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	49.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	51.2		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	51.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	52.4		0.14	0.50	1.00	ug/L
100-42-5	Styrene	54.0		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	50.9		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	50.3		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.9		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.9		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.9		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.8		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	49.7		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.6		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.1		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.1		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.5		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.55				
540-36-3	1,4-Difluorobenzene	213000	6.757				
3114-55-4	Chlorobenzene-d5	188000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	88700	12.024				

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RE132D5-20241217MSD		SDG No.:	P5317	
Lab Sample ID:	P5317-20MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044418.D	1		12/19/24 06:51	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044219.D		RRF005 = VX044220.D		RRF020 = VX044221.D		RRF050 = VX044222.D		RRF100 = VX044223.D		RRF150 = VX044224.D	
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
Dichlorodifluoromethane	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.2					
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8					
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3					
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3					
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2					
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8					
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8					
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7					
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5					
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20					
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3					
Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.2					
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1					
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4					
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1					
Cyclohexane		0.931	0.963	0.977	0.922	0.938	0.946	2.4					
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1					
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8					
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1					
Bromochloromethane	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.1					
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4					
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1					
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5					
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9					
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4					
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8					
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8					
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9					
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4					
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4					

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:								
RRF001 = VX044219.D			RRF005 = VX044220.D			RRF020 = VX044221.D		
RRF050 = VX044222.D			RRF100 = VX044223.D			RRF150 = VX044224.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2
1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.1
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5
1,2-Dibromo-3-Chloropropane	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13
1,2,4-Trichlorobenzene	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.2
1,2,3-Trichlorobenzene	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.3
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 21:48

Lab File ID: VX044397.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.795		2.85	20
Chloromethane	0.739	0.800	0.1	8.25	20
Vinyl Chloride	0.770	0.816		5.97	20
Bromomethane	0.546	0.536		-1.83	20
Chloroethane	0.480	0.583		21.46	20
Trichlorofluoromethane	1.508	1.283		-14.92	20
1,1,2-Trichlorotrifluoroethane	0.610	0.605		-0.82	20
1,1-Dichloroethene	0.560	0.606		8.21	20
Acetone	0.357	0.316		-11.48	20
Carbon Disulfide	1.065	1.175		10.33	20
Methyl tert-butyl Ether	2.187	2.162		-1.14	20
Methyl Acetate	0.922	0.917		-0.54	20
Methylene Chloride	0.671	0.694		3.43	20
trans-1,2-Dichloroethene	0.596	0.622		4.36	20
1,1-Dichloroethane	1.172	1.235	0.1	5.38	20
Cyclohexane	0.946	0.938		-0.85	20
2-Butanone	0.508	0.502		-1.18	20
Carbon Tetrachloride	0.482	0.502		4.15	20
cis-1,2-Dichloroethene	0.756	0.766		1.32	20
Bromochloromethane	0.575	0.549		-4.52	20
Chloroform	1.316	1.307		-0.68	20
1,1,1-Trichloroethane	1.093	1.128		3.2	20
Methylcyclohexane	0.535	0.545		1.87	20
Benzene	1.359	1.475		8.54	20
1,2-Dichloroethane	0.560	0.564		0.71	20
Trichloroethene	0.339	0.355		4.72	20
1,2-Dichloropropane	0.347	0.365		5.19	20
Bromodichloromethane	0.465	0.515		10.75	20
4-Methyl-2-Pentanone	0.556	0.569		2.34	20
Toluene	0.853	0.893		4.69	20
t-1,3-Dichloropropene	0.455	0.481		5.71	20
cis-1,3-Dichloropropene	0.507	0.550		8.48	20
1,1,2-Trichloroethane	0.339	0.364		7.38	20
2-Hexanone	0.403	0.416		3.23	20
Dibromochloromethane	0.326	0.357		9.51	20
1,2-Dibromoethane	0.345	0.374		8.41	20
Tetrachloroethene	0.332	0.350		5.42	20
Chlorobenzene	1.071	1.130	0.3	5.51	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 21:48

Lab File ID: VX044397.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.951		5.4	20
m/p-Xylenes	0.679	0.742		9.28	20
o-Xylene	0.687	0.733		6.7	20
Styrene	1.102	1.211		9.89	20
Bromoform	0.219	0.252	0.1	15.07	20
Isopropylbenzene	3.828	4.037		5.46	20
1,1,2,2-Tetrachloroethane	1.329	1.368	0.3	2.93	20
1,3-Dichlorobenzene	1.621	1.711		5.55	20
1,4-Dichlorobenzene	1.667	1.693		1.56	20
1,2-Dichlorobenzene	1.684	1.757		4.34	20
1,2-Dibromo-3-Chloropropane	0.258	0.249		-3.49	20
1,2,4-Trichlorobenzene	0.923	0.990		7.26	20
1,2,3-Trichlorobenzene	0.979	1.012		3.37	20
1,2-Dichloroethane-d4	0.877	0.798		-9.01	20
Dibromofluoromethane	0.346	0.354		2.31	20
Toluene-d8	1.168	1.174		0.51	20
4-Bromofluorobenzene	0.408	0.401		-1.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/19/2024 07:14

Lab File ID: VX044419.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.726		-6.08	50
Chloromethane	0.739	0.772	0.1	4.47	50
Vinyl Chloride	0.770	0.787		2.21	50
Bromomethane	0.546	0.550		0.73	50
Chloroethane	0.480	0.563		17.29	50
Trichlorofluoromethane	1.508	1.206		-20.03	50
1,1,2-Trichlorotrifluoroethane	0.610	0.523		-14.26	50
1,1-Dichloroethene	0.560	0.578		3.21	50
Acetone	0.357	0.336		-5.88	50
Carbon Disulfide	1.065	1.140		7.04	50
Methyl tert-butyl Ether	2.187	2.245		2.65	50
Methyl Acetate	0.922	0.957		3.8	50
Methylene Chloride	0.671	0.712		6.11	50
trans-1,2-Dichloroethene	0.596	0.598		0.34	50
1,1-Dichloroethane	1.172	1.226	0.1	4.61	50
Cyclohexane	0.946	0.810		-14.38	50
2-Butanone	0.508	0.510		0.39	50
Carbon Tetrachloride	0.482	0.467		-3.11	50
cis-1,2-Dichloroethene	0.756	0.755		-0.13	50
Bromochloromethane	0.575	0.579		0.7	50
Chloroform	1.316	1.295		-1.6	50
1,1,1-Trichloroethane	1.093	1.063		-2.74	50
Methylcyclohexane	0.535	0.445		-16.82	50
Benzene	1.359	1.429		5.15	50
1,2-Dichloroethane	0.560	0.575		2.68	50
Trichloroethene	0.339	0.345		1.77	50
1,2-Dichloropropane	0.347	0.365		5.19	50
Bromodichloromethane	0.465	0.507		9.03	50
4-Methyl-2-Pentanone	0.556	0.581		4.5	50
Toluene	0.853	0.839		-1.64	50
t-1,3-Dichloropropene	0.455	0.461		1.32	50
cis-1,3-Dichloropropene	0.507	0.509		0.39	50
1,1,2-Trichloroethane	0.339	0.362		6.78	50
2-Hexanone	0.403	0.424		5.21	50
Dibromochloromethane	0.326	0.365		11.96	50
1,2-Dibromoethane	0.345	0.373		8.12	50
Tetrachloroethene	0.332	0.307		-7.53	50
Chlorobenzene	1.071	1.058	0.3	-1.21	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/19/2024 07:14

Lab File ID: VX044419.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.801		-2.7	50
m/p-Xylenes	0.679	0.675		-0.59	50
o-Xylene	0.687	0.679		-1.16	50
Styrene	1.102	1.142		3.63	50
Bromoform	0.219	0.254	0.1	15.98	50
Isopropylbenzene	3.828	3.679		-3.89	50
1,1,2,2-Tetrachloroethane	1.329	1.400	0.3	5.34	50
1,3-Dichlorobenzene	1.621	1.642		1.29	50
1,4-Dichlorobenzene	1.667	1.638		-1.74	50
1,2-Dichlorobenzene	1.684	1.704		1.19	50
1,2-Dibromo-3-Chloropropane	0.258	0.260		0.77	50
1,2,4-Trichlorobenzene	0.923	0.972		5.31	50
1,2,3-Trichlorobenzene	0.979	1.003		2.45	50
1,2-Dichloroethane-d4	0.877	0.848		-3.31	50
Dibromofluoromethane	0.346	0.362		4.62	50
Toluene-d8	1.168	1.160		-0.69	50
4-Bromofluorobenzene	0.408	0.396		-2.94	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.854		10.48	20
Chloromethane	0.739	0.782	0.1	5.82	20
Vinyl Chloride	0.770	0.798		3.64	20
Bromomethane	0.546	0.532		-2.56	20
Chloroethane	0.480	0.473		-1.46	20
Trichlorofluoromethane	1.508	1.482		-1.72	20
1,1,2-Trichlorotrifluoroethane	0.610	0.676		10.82	20
1,1-Dichloroethene	0.560	0.624		11.43	20
Acetone	0.357	0.291		-18.49	20
Carbon Disulfide	1.065	1.106		3.85	20
Methyl tert-butyl Ether	2.187	2.093		-4.3	20
Methyl Acetate	0.922	0.896		-2.82	20
Methylene Chloride	0.671	0.689		2.68	20
trans-1,2-Dichloroethene	0.596	0.625		4.87	20
1,1-Dichloroethane	1.172	1.203	0.1	2.64	20
Cyclohexane	0.946	1.000		5.71	20
2-Butanone	0.508	0.457		-10.04	20
Carbon Tetrachloride	0.482	0.533		10.58	20
cis-1,2-Dichloroethene	0.756	0.755		-0.13	20
Bromochloromethane	0.575	0.553		-3.83	20
Chloroform	1.316	1.265		-3.88	20
1,1,1-Trichloroethane	1.093	1.099		0.55	20
Methylcyclohexane	0.535	0.648		21.12	20
Benzene	1.359	1.529		12.51	20
1,2-Dichloroethane	0.560	0.586		4.64	20
Trichloroethene	0.339	0.388		14.45	20
1,2-Dichloropropane	0.347	0.369		6.34	20
Bromodichloromethane	0.465	0.525		12.9	20
4-Methyl-2-Pentanone	0.556	0.573		3.06	20
Toluene	0.853	0.924		8.32	20
t-1,3-Dichloropropene	0.455	0.517		13.63	20
cis-1,3-Dichloropropene	0.507	0.577		13.81	20
1,1,2-Trichloroethane	0.339	0.374		10.32	20
2-Hexanone	0.403	0.414		2.73	20
Dibromochloromethane	0.326	0.381		16.87	20
1,2-Dibromoethane	0.345	0.385		11.59	20
Tetrachloroethene	0.332	0.378		13.85	20
Chlorobenzene	1.071	1.187	0.3	10.83	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	2.034		9.89	20
m/p-Xylenes	0.679	0.780		14.88	20
o-Xylene	0.687	0.748		8.88	20
Styrene	1.102	1.275		15.7	20
Bromoform	0.219	0.266	0.1	21.46	20
Isopropylbenzene	3.828	4.095		6.97	20
1,1,2,2-Tetrachloroethane	1.329	1.387	0.3	4.36	20
1,3-Dichlorobenzene	1.621	1.811		11.72	20
1,4-Dichlorobenzene	1.667	1.781		6.84	20
1,2-Dichlorobenzene	1.684	1.820		8.08	20
1,2-Dibromo-3-Chloropropane	0.258	0.253		-1.94	20
1,2,4-Trichlorobenzene	0.923	1.098		18.96	20
1,2,3-Trichlorobenzene	0.979	1.140		16.44	20
1,2-Dichloroethane-d4	0.877	0.836		-4.68	20
Dibromofluoromethane	0.346	0.392		13.3	20
Toluene-d8	1.168	1.318		12.84	20
4-Bromofluorobenzene	0.408	0.454		11.27	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.744		-3.75	50
Chloromethane	0.739	0.696	0.1	-5.82	50
Vinyl Chloride	0.770	0.730		-5.2	50
Bromomethane	0.546	0.498		-8.79	50
Chloroethane	0.480	0.507		5.63	50
Trichlorofluoromethane	1.508	1.202		-20.29	50
1,1,2-Trichlorotrifluoroethane	0.610	0.590		-3.28	50
1,1-Dichloroethene	0.560	0.560		0	50
Acetone	0.357	0.270		-24.37	50
Carbon Disulfide	1.065	1.089		2.25	50
Methyl tert-butyl Ether	2.187	1.972		-9.83	50
Methyl Acetate	0.922	0.860		-6.72	50
Methylene Chloride	0.671	0.636		-5.22	50
trans-1,2-Dichloroethene	0.596	0.578		-3.02	50
1,1-Dichloroethane	1.172	1.125	0.1	-4.01	50
Cyclohexane	0.946	0.871		-7.93	50
2-Butanone	0.508	0.433		-14.76	50
Carbon Tetrachloride	0.482	0.495		2.7	50
cis-1,2-Dichloroethene	0.756	0.719		-4.89	50
Bromochloromethane	0.575	0.510		-11.3	50
Chloroform	1.316	1.190		-9.57	50
1,1,1-Trichloroethane	1.093	1.029		-5.86	50
Methylcyclohexane	0.535	0.550		2.8	50
Benzene	1.359	1.393		2.5	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.360		6.2	50
1,2-Dichloropropane	0.347	0.345		-0.58	50
Bromodichloromethane	0.465	0.491		5.59	50
4-Methyl-2-Pentanone	0.556	0.524		-5.76	50
Toluene	0.853	0.855		0.23	50
t-1,3-Dichloropropene	0.455	0.482		5.93	50
cis-1,3-Dichloropropene	0.507	0.531		4.73	50
1,1,2-Trichloroethane	0.339	0.345		1.77	50
2-Hexanone	0.403	0.381		-5.46	50
Dibromochloromethane	0.326	0.361		10.74	50
1,2-Dibromoethane	0.345	0.366		6.09	50
Tetrachloroethene	0.332	0.343		3.31	50
Chlorobenzene	1.071	1.094	0.3	2.15	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.868		0.92	50
m/p-Xylenes	0.679	0.713		5.01	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.163		5.53	50
Bromoform	0.219	0.251	0.1	14.61	50
Isopropylbenzene	3.828	3.829		0.03	50
1,1,2,2-Tetrachloroethane	1.329	1.278	0.3	-3.84	50
1,3-Dichlorobenzene	1.621	1.669		2.96	50
1,4-Dichlorobenzene	1.667	1.653		-0.84	50
1,2-Dichlorobenzene	1.684	1.709		1.49	50
1,2-Dibromo-3-Chloropropane	0.258	0.238		-7.75	50
1,2,4-Trichlorobenzene	0.923	1.000		8.34	50
1,2,3-Trichlorobenzene	0.979	1.036		5.82	50
1,2-Dichloroethane-d4	0.877	0.778		-11.29	50
Dibromofluoromethane	0.346	0.363		4.91	50
Toluene-d8	1.168	1.213		3.85	50
4-Bromofluorobenzene	0.408	0.418		2.45	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 08:49

Lab File ID: VX044466.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.826		6.86	20
Chloromethane	0.739	0.733	0.1	-0.81	20
Vinyl Chloride	0.770	0.718		-6.75	20
Bromomethane	0.546	0.480		-12.09	20
Chloroethane	0.480	0.398		-17.08	20
Trichlorofluoromethane	1.508	1.293		-14.26	20
1,1,2-Trichlorotrifluoroethane	0.610	0.663		8.69	20
1,1-Dichloroethene	0.560	0.569		1.61	20
Acetone	0.357	0.295		-17.37	20
Carbon Disulfide	1.065	0.991		-6.95	20
Methyl tert-butyl Ether	2.187	1.927		-11.89	20
Methyl Acetate	0.922	0.827		-10.3	20
Methylene Chloride	0.671	0.595		-11.33	20
trans-1,2-Dichloroethene	0.596	0.569		-4.53	20
1,1-Dichloroethane	1.172	1.079	0.1	-7.93	20
Cyclohexane	0.946	0.964		1.9	20
2-Butanone	0.508	0.426		-16.14	20
Carbon Tetrachloride	0.482	0.532		10.37	20
cis-1,2-Dichloroethene	0.756	0.701		-7.28	20
Bromochloromethane	0.575	0.473		-17.74	20
Chloroform	1.316	1.165		-11.47	20
1,1,1-Trichloroethane	1.093	1.033		-5.49	20
Methylcyclohexane	0.535	0.657		22.8	20
Benzene	1.359	1.479		8.83	20
1,2-Dichloroethane	0.560	0.539		-3.75	20
Trichloroethene	0.339	0.375		10.62	20
1,2-Dichloropropane	0.347	0.363		4.61	20
Bromodichloromethane	0.465	0.505		8.6	20
4-Methyl-2-Pentanone	0.556	0.519		-6.66	20
Toluene	0.853	0.904		5.98	20
t-1,3-Dichloropropene	0.455	0.481		5.71	20
cis-1,3-Dichloropropene	0.507	0.551		8.68	20
1,1,2-Trichloroethane	0.339	0.361		6.49	20
2-Hexanone	0.403	0.376		-6.7	20
Dibromochloromethane	0.326	0.354		8.59	20
1,2-Dibromoethane	0.345	0.365		5.8	20
Tetrachloroethene	0.332	0.399		20.18	20
Chlorobenzene	1.071	1.145	0.3	6.91	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 08:49

Lab File ID: VX044466.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.931		4.32	20
m/p-Xylenes	0.679	0.747		10.02	20
o-Xylene	0.687	0.732		6.55	20
Styrene	1.102	1.199		8.8	20
Bromoform	0.219	0.252	0.1	15.07	20
Isopropylbenzene	3.828	4.164		8.78	20
1,1,2,2-Tetrachloroethane	1.329	1.384	0.3	4.14	20
1,3-Dichlorobenzene	1.621	1.739		7.28	20
1,4-Dichlorobenzene	1.667	1.793		7.56	20
1,2-Dichlorobenzene	1.684	1.789		6.24	20
1,2-Dibromo-3-Chloropropane	0.258	0.256		-0.77	20
1,2,4-Trichlorobenzene	0.923	1.029		11.48	20
1,2,3-Trichlorobenzene	0.979	1.065		8.78	20
1,2-Dichloroethane-d4	0.877	0.735		-16.19	20
Dibromofluoromethane	0.346	0.372		7.51	20
Toluene-d8	1.168	1.249		6.93	20
4-Bromofluorobenzene	0.408	0.415		1.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 19:49

Lab File ID: VX044492.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.700		-9.44	50
Chloromethane	0.739	0.678	0.1	-8.25	50
Vinyl Chloride	0.770	0.689		-10.52	50
Bromomethane	0.546	0.468		-14.29	50
Chloroethane	0.480	0.442		-7.92	50
Trichlorofluoromethane	1.508	1.069		-29.11	50
1,1,2-Trichlorotrifluoroethane	0.610	0.551		-9.67	50
1,1-Dichloroethene	0.560	0.531		-5.18	50
Acetone	0.357	0.251		-29.69	50
Carbon Disulfide	1.065	0.983		-7.7	50
Methyl tert-butyl Ether	2.187	1.845		-15.64	50
Methyl Acetate	0.922	0.733		-20.5	50
Methylene Chloride	0.671	0.623		-7.15	50
trans-1,2-Dichloroethene	0.596	0.544		-8.73	50
1,1-Dichloroethane	1.172	1.059	0.1	-9.64	50
Cyclohexane	0.946	0.810		-14.38	50
2-Butanone	0.508	0.382		-24.8	50
Carbon Tetrachloride	0.482	0.477		-1.04	50
cis-1,2-Dichloroethene	0.756	0.679		-10.19	50
Bromochloromethane	0.575	0.456		-20.7	50
Chloroform	1.316	1.143		-13.15	50
1,1,1-Trichloroethane	1.093	0.986		-9.79	50
Methylcyclohexane	0.535	0.537		0.37	50
Benzene	1.359	1.392		2.43	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.355		4.72	50
1,2-Dichloropropane	0.347	0.352		1.44	50
Bromodichloromethane	0.465	0.489		5.16	50
4-Methyl-2-Pentanone	0.556	0.477		-14.21	50
Toluene	0.853	0.862		1.05	50
t-1,3-Dichloropropene	0.455	0.469		3.08	50
cis-1,3-Dichloropropene	0.507	0.529		4.34	50
1,1,2-Trichloroethane	0.339	0.347		2.36	50
2-Hexanone	0.403	0.346		-14.14	50
Dibromochloromethane	0.326	0.351		7.67	50
1,2-Dibromoethane	0.345	0.357		3.48	50
Tetrachloroethene	0.332	0.362		9.04	50
Chlorobenzene	1.071	1.103	0.3	2.99	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 19:49

Lab File ID: VX044492.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.878		1.46	50
m/p-Xylenes	0.679	0.714		5.16	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.181		7.17	50
Bromoform	0.219	0.245	0.1	11.87	50
Isopropylbenzene	3.828	3.728		-2.61	50
1,1,2,2-Tetrachloroethane	1.329	1.216	0.3	-8.5	50
1,3-Dichlorobenzene	1.621	1.672		3.15	50
1,4-Dichlorobenzene	1.667	1.677		0.6	50
1,2-Dichlorobenzene	1.684	1.667		-1.01	50
1,2-Dibromo-3-Chloropropane	0.258	0.216		-16.28	50
1,2,4-Trichlorobenzene	0.923	0.999		8.23	50
1,2,3-Trichlorobenzene	0.979	1.021		4.29	50
1,2-Dichloroethane-d4	0.877	0.643		-26.68	50
Dibromofluoromethane	0.346	0.316		-8.67	50
Toluene-d8	1.168	1.039		-11.05	50
4-Bromofluorobenzene	0.408	0.358		-12.26	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/30/2024 13:07

Lab File ID: VX044540.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.704		-8.93	20
Chloromethane	0.739	0.649	0.1	-12.18	20
Vinyl Chloride	0.770	0.670		-12.99	20
Bromomethane	0.546	0.451		-17.4	20
Chloroethane	0.480	0.420		-12.5	20
Trichlorofluoromethane	1.508	1.226		-18.7	20
1,1,2-Trichlorotrifluoroethane	0.610	0.602		-1.31	20
1,1-Dichloroethene	0.560	0.548		-2.32	20
Acetone	0.357	0.291		-18.49	20
Carbon Disulfide	1.065	0.968		-9.11	20
Methyl tert-butyl Ether	2.187	1.898		-13.21	20
Methyl Acetate	0.922	0.858		-6.94	20
Methylene Chloride	0.671	0.609		-9.24	20
trans-1,2-Dichloroethene	0.596	0.541		-9.23	20
1,1-Dichloroethane	1.172	1.067	0.1	-8.96	20
Cyclohexane	0.946	0.837		-11.52	20
2-Butanone	0.508	0.441		-13.19	20
Carbon Tetrachloride	0.482	0.508		5.39	20
cis-1,2-Dichloroethene	0.756	0.696		-7.94	20
Bromochloromethane	0.575	0.491		-14.61	20
Chloroform	1.316	1.161		-11.78	20
1,1,1-Trichloroethane	1.093	1.013		-7.32	20
Methylcyclohexane	0.535	0.577		7.85	20
Benzene	1.359	1.403		3.16	20
1,2-Dichloroethane	0.560	0.548		-2.14	20
Trichloroethene	0.339	0.365		7.67	20
1,2-Dichloropropane	0.347	0.354		2.02	20
Bromodichloromethane	0.465	0.504		8.39	20
4-Methyl-2-Pentanone	0.556	0.557		0.18	20
Toluene	0.853	0.875		2.58	20
t-1,3-Dichloropropene	0.455	0.489		7.47	20
cis-1,3-Dichloropropene	0.507	0.549		8.28	20
1,1,2-Trichloroethane	0.339	0.365		7.67	20
2-Hexanone	0.403	0.408		1.24	20
Dibromochloromethane	0.326	0.376		15.34	20
1,2-Dibromoethane	0.345	0.387		12.17	20
Tetrachloroethene	0.332	0.375		12.95	20
Chlorobenzene	1.071	1.137	0.3	6.16	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/30/2024 13:07

Lab File ID: VX044540.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.950		5.29	20
m/p-Xylenes	0.679	0.724		6.63	20
o-Xylene	0.687	0.730		6.26	20
Styrene	1.102	1.225		11.16	20
Bromoform	0.219	0.274	0.1	25.11	20
Isopropylbenzene	3.828	3.771		-1.49	20
1,1,2,2-Tetrachloroethane	1.329	1.246	0.3	-6.24	20
1,3-Dichlorobenzene	1.621	1.705		5.18	20
1,4-Dichlorobenzene	1.667	1.687		1.2	20
1,2-Dichlorobenzene	1.684	1.724		2.38	20
1,2-Dibromo-3-Chloropropane	0.258	0.243		-5.81	20
1,2,4-Trichlorobenzene	0.923	1.049		13.65	20
1,2,3-Trichlorobenzene	0.979	1.098		12.15	20
1,2-Dichloroethane-d4	0.877	0.712		-18.81	20
Dibromofluoromethane	0.346	0.347		0.29	20
Toluene-d8	1.168	1.152		-1.37	20
4-Bromofluorobenzene	0.408	0.416		1.96	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/30/2024 23:54

Lab File ID: VX044566.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.656		-15.14	50
Chloromethane	0.739	0.595	0.1	-19.49	50
Vinyl Chloride	0.770	0.637		-17.27	50
Bromomethane	0.546	0.434		-20.51	50
Chloroethane	0.480	0.411		-14.38	50
Trichlorofluoromethane	1.508	1.187		-21.29	50
1,1,2-Trichlorotrifluoroethane	0.610	0.575		-5.74	50
1,1-Dichloroethene	0.560	0.554		-1.07	50
Acetone	0.357	0.284		-20.45	50
Carbon Disulfide	1.065	0.937		-12.02	50
Methyl tert-butyl Ether	2.187	1.892		-13.49	50
Methyl Acetate	0.922	0.841		-8.78	50
Methylene Chloride	0.671	0.598		-10.88	50
trans-1,2-Dichloroethene	0.596	0.545		-8.56	50
1,1-Dichloroethane	1.172	1.065	0.1	-9.13	50
Cyclohexane	0.946	0.793		-16.17	50
2-Butanone	0.508	0.435		-14.37	50
Carbon Tetrachloride	0.482	0.484		0.41	50
cis-1,2-Dichloroethene	0.756	0.682		-9.79	50
Bromochloromethane	0.575	0.455		-20.87	50
Chloroform	1.316	1.146		-12.92	50
1,1,1-Trichloroethane	1.093	1.005		-8.05	50
Methylcyclohexane	0.535	0.513		-4.11	50
Benzene	1.359	1.334		-1.84	50
1,2-Dichloroethane	0.560	0.526		-6.07	50
Trichloroethene	0.339	0.354		4.43	50
1,2-Dichloropropane	0.347	0.331		-4.61	50
Bromodichloromethane	0.465	0.478		2.8	50
4-Methyl-2-Pentanone	0.556	0.539		-3.06	50
Toluene	0.853	0.835		-2.11	50
t-1,3-Dichloropropene	0.455	0.458		0.66	50
cis-1,3-Dichloropropene	0.507	0.510		0.59	50
1,1,2-Trichloroethane	0.339	0.351		3.54	50
2-Hexanone	0.403	0.398		-1.24	50
Dibromochloromethane	0.326	0.361		10.74	50
1,2-Dibromoethane	0.345	0.364		5.51	50
Tetrachloroethene	0.332	0.332		0	50
Chlorobenzene	1.071	1.067	0.3	-0.37	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/30/2024 23:54

Lab File ID: VX044566.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.830		-1.13	50
m/p-Xylenes	0.679	0.685		0.88	50
o-Xylene	0.687	0.687		0	50
Styrene	1.102	1.146		3.99	50
Bromoform	0.219	0.264	0.1	20.55	50
Isopropylbenzene	3.828	3.680		-3.87	50
1,1,2,2-Tetrachloroethane	1.329	1.263	0.3	-4.97	50
1,3-Dichlorobenzene	1.621	1.658		2.28	50
1,4-Dichlorobenzene	1.667	1.661		-0.36	50
1,2-Dichlorobenzene	1.684	1.678		-0.36	50
1,2-Dibromo-3-Chloropropane	0.258	0.241		-6.59	50
1,2,4-Trichlorobenzene	0.923	1.013		9.75	50
1,2,3-Trichlorobenzene	0.979	1.063		8.58	50
1,2-Dichloroethane-d4	0.877	0.721		-17.79	50
Dibromofluoromethane	0.346	0.346		0	50
Toluene-d8	1.168	1.133		-3	50
4-Bromofluorobenzene	0.408	0.410		0.49	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

LAB CHRONICLE

OrderID:	P5317	OrderDate:	12/17/2024 3:48:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5317-01	RE114D2-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/20/24	12/17/24
P5317-02	RW4-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/20/24	12/17/24
P5317-03	TT191D1-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/20/24	12/17/24
P5317-04	TT191D2-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/20/24	12/17/24
P5317-05	TT163S1-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/20/24	12/17/24
P5317-06	DUP-04-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/24/24	12/17/24
P5317-07	RW8-MW01S-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/24/24	12/17/24
P5317-08	RW8-MW01D1-20241216	Water	SVOC-SIMGroup1	8270-Modified	12/16/24	12/18/24	12/21/24	12/17/24
P5317-09	TT158S1-20241217	Water	SVOC-SIMGroup1	8270-Modified	12/17/24	12/18/24	12/20/24	12/17/24
P5317-10	TT158I1-20241217	Water	SVOC-SIMGroup1	8270-Modified	12/17/24	12/18/24	12/20/24	12/17/24
P5317-11	DUP-05-20241217	Water	SVOC-SIMGroup1	8270-Modified	12/17/24	12/18/24	12/21/24	12/17/24

LAB CHRONICLE

P5317-12	TT172S1-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/21/24
P5317-13	RW9-MW01S-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/21/24
P5317-14	RW9-MW01D1-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/21/24
P5317-15	RW9-MW01D2-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-16	RW9-MW01D3-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-17	DUP-06-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-18	RE132D5-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-21	RE132D6-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-21DL	RE132D6-20241217DL	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/26/24
P5317-22	RE132D7-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-24	RW8-MW01D2-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24
P5317-25	RW8-MW01D3-20241217	Water			12/17/24		12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24

Hit Summary Sheet
SW-846

SDG No.: P5317
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RE114D2-20241216								
P5317-01	RE114D2-20241216	WATER	1,4-Dioxane	4.200		0.07	0.2	0.2	ug/L
			Total Svoc :			4.20			
			Total Concentration:			4.20			
Client ID :	RW4-20241216								
P5317-02	RW4-20241216	WATER	1,4-Dioxane	3.700		0.07	0.2	0.2	ug/L
			Total Svoc :			3.70			
			Total Concentration:			3.70			
Client ID :	TT191D1-20241216								
P5317-03	TT191D1-20241216	WATER	1,4-Dioxane	2.300		0.07	0.21	0.21	ug/L
			Total Svoc :			2.30			
			Total Concentration:			2.30			
Client ID :	TT191D2-20241216								
P5317-04	TT191D2-20241216	WATER	1,4-Dioxane	0.580		0.07	0.2	0.2	ug/L
			Total Svoc :			0.58			
			Total Concentration:			0.58			
Client ID :	TT163S1-20241216								
P5317-05	TT163S1-20241216	WATER	1,4-Dioxane	0.460		0.07	0.2	0.2	ug/L
			Total Svoc :			0.46			
			Total Concentration:			0.46			
Client ID :	DUP-04-20241216								
P5317-06	DUP-04-20241216	WATER	1,4-Dioxane	2.400		0.07	0.2	0.2	ug/L
			Total Svoc :			2.40			
			Total Concentration:			2.40			
Client ID :	RW8-MW01S-20241216								
P5317-07	RW8-MW01S-20241216	WATER	1,4-Dioxane	0.680		0.07	0.21	0.21	ug/L
			Total Svoc :			0.68			
			Total Concentration:			0.68			
Client ID :	RW8-MW01D1-20241216								
P5317-08	RW8-MW01D1-2024121	WATER	1,4-Dioxane	0.350		0.07	0.2	0.2	ug/L
			Total Svoc :			0.35			
			Total Concentration:			0.35			
Client ID :	TT158S1-20241217								
P5317-09	TT158S1-20241217	WATER	1,4-Dioxane	1.200		0.07	0.2	0.2	ug/L
			Total Svoc :			1.20			

Hit Summary Sheet SW-846

SDG No.: P5317
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Concentration:			1.20					
Client ID :	DUP-05-20241217							
P5317-11	DUP-05-20241217	WATER	1,4-Dioxane	1.200	0.07	0.2	0.2	ug/L
Total Svoc :			1.20					
Total Concentration:			1.20					
Client ID :	TT172S1-20241217							
P5317-12	TT172S1-20241217	WATER	1,4-Dioxane	1.500	0.07	0.2	0.2	ug/L
Total Svoc :			1.50					
Total Concentration:			1.50					
Client ID :	RW9-MW01S-20241217							
P5317-13	RW9-MW01S-20241217	WATER	1,4-Dioxane	0.570	0.07	0.2	0.2	ug/L
Total Svoc :			0.57					
Total Concentration:			0.57					
Client ID :	RW9-MW01D1-20241217							
P5317-14	RW9-MW01D1-20241217	WATER	1,4-Dioxane	0.310	0.07	0.21	0.21	ug/L
Total Svoc :			0.31					
Total Concentration:			0.31					
Client ID :	DUP-06-20241217							
P5317-17	DUP-06-20241217	WATER	1,4-Dioxane	0.500	0.07	0.2	0.2	ug/L
Total Svoc :			0.50					
Total Concentration:			0.50					
Client ID :	RE132D5-20241217							
P5317-18	RE132D5-20241217	WATER	1,4-Dioxane	6.300	M	0.14	0.41	ug/L
Total Svoc :			6.30					
Total Concentration:			6.30					
Client ID :	RE132D6-20241217							
P5317-21	RE132D6-20241217	WATER	1,4-Dioxane	8.100	E	0.07	0.2	ug/L
Total Svoc :			8.10					
Total Concentration:			8.10					
Client ID :	RE132D6-20241217DL							
P5317-21DL	RE132D6-20241217DL	WATER	1,4-Dioxane	10.000	D	0.35	1	ug/L
Total Svoc :			10.00					
Total Concentration:			10.00					
Client ID :	RE132D7-20241217							
P5317-22	RE132D7-20241217	WATER	1,4-Dioxane	3.200		0.07	0.2	ug/L
Total Svoc :			3.20					



Hit Summary Sheet
SW-846

SDG No.: P5317
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
		Total Concentration:			3.20			

- A
- B
- C
- D
- E
- F
- G



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RE114D2-20241216		SDG No.:	P5317
Lab Sample ID:	P5317-01		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035743.D	1	12/18/24 11:40	12/20/24 15:54	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2640	7.272				
1146-65-2	Naphthalene-d8	7060	10.02				
15067-26-2	Acenaphthene-d10	4650	13.925				
1517-22-2	Phenanthrene-d10	9630	16.711				
1719-03-5	Chrysene-d12	8020	20.956				
1520-96-3	Perylene-d12	8110	23.041				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW4-20241216		SDG No.:	P5317
Lab Sample ID:	P5317-02		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035744.D	1	12/18/24 11:40	12/20/24 16:30	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2820	7.271				
1146-65-2	Naphthalene-d8	7120	10.02				
15067-26-2	Acenaphthene-d10	4880	13.935				
1517-22-2	Phenanthrene-d10	9700	16.698				
1719-03-5	Chrysene-d12	7740	20.956				
1520-96-3	Perylene-d12	8020	23.041				

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	TT191D1-20241216		SDG No.:	P5317
Lab Sample ID:	P5317-03		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	970	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035745.D	1	12/18/24 11:40	12/20/24 17:06	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.30		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		152%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2570	7.272				
1146-65-2	Naphthalene-d8	6830	10.02				
15067-26-2	Acenaphthene-d10	4490	13.925				
1517-22-2	Phenanthrene-d10	8910	16.698				
1719-03-5	Chrysene-d12	7480	20.956				
1520-96-3	Perylene-d12	7630	23.041				

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035746.D	1	12/18/24 11:40	12/20/24 17:42	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.58		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		95%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.63	*	58 - 132		157%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2640	7.272				
1146-65-2	Naphthalene-d8	7160	10.009				
15067-26-2	Acenaphthene-d10	4690	13.924				
1517-22-2	Phenanthrene-d10	9730	16.698				
1719-03-5	Chrysene-d12	8370	20.956				
1520-96-3	Perylene-d12	8460	23.041				

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MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	TT163S1-20241216		SDG No.:	P5317
Lab Sample ID:	P5317-05		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035751.D	1	12/18/24 11:40	12/20/24 20:45	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.46		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.72	*	58 - 132		179%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2620	7.272				
1146-65-2	Naphthalene-d8	7190	10.02				
15067-26-2	Acenaphthene-d10	4750	13.924				
1517-22-2	Phenanthrene-d10	9740	16.698				
1719-03-5	Chrysene-d12	8220	20.956				
1520-96-3	Perylene-d12	8290	23.044				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	DUP-04-20241216		SDG No.:	P5317
Lab Sample ID:	P5317-06		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035807.D	1	12/18/24 11:40	12/24/24 05:58	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	58 - 132		162%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3910		7.264			
1146-65-2	Naphthalene-d8	9860		10.009			
15067-26-2	Acenaphthene-d10	5850		13.925			
1517-22-2	Phenanthrene-d10	11900		16.698			
1719-03-5	Chrysene-d12	10700		20.947			
1520-96-3	Perylene-d12	10100		23.032			

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	RW8-MW01S-20241216		SDG No.:	P5317	
Lab Sample ID:	P5317-07		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	970	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035806.D	1	12/18/24 11:40	12/24/24 05:23	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.68		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		95%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.73	*	58 - 132		182%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3580		7.264			
1146-65-2	Naphthalene-d8	8970		10.009			
15067-26-2	Acenaphthene-d10	6220		13.925			
1517-22-2	Phenanthrene-d10	13700		16.698			
1719-03-5	Chrysene-d12	11100		20.947			
1520-96-3	Perylene-d12	9980		23.029			

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D = Dilution

() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW8-MW01D1-20241216		SDG No.:	P5317
Lab Sample ID:	P5317-08		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035759.D	1	12/18/24 11:40	12/21/24 01:34	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		107%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.76	*	58 - 132		191%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2540	7.272				
1146-65-2	Naphthalene-d8	6410	10.02				
15067-26-2	Acenaphthene-d10	4320	13.924				
1517-22-2	Phenanthrene-d10	8570	16.698				
1719-03-5	Chrysene-d12	6990	20.956				
1520-96-3	Perylene-d12	6880	23.041				

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LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035755.D	1	12/18/24 11:40	12/20/24 23:09	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.77	*	58 - 132		192%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2810	7.272				
1146-65-2	Naphthalene-d8	7440	10.02				
15067-26-2	Acenaphthene-d10	5100	13.924				
1517-22-2	Phenanthrene-d10	10400	16.698				
1719-03-5	Chrysene-d12	8560	20.956				
1520-96-3	Perylene-d12	8470	23.041				

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LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	TT158I1-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-10		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035756.D	1	12/18/24 11:40	12/20/24 23:45	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		95%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		154%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2810	7.272				
1146-65-2	Naphthalene-d8	7660	10.009				
15067-26-2	Acenaphthene-d10	5090	13.925				
1517-22-2	Phenanthrene-d10	10800	16.698				
1719-03-5	Chrysene-d12	9370	20.956				
1520-96-3	Perylene-d12	9220	23.041				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	DUP-05-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-11		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035757.D	1	12/18/24 11:40	12/21/24 00:21	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	58 - 132		163%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3050	7.272				
1146-65-2	Naphthalene-d8	7900	10.02				
15067-26-2	Acenaphthene-d10	5090	13.924				
1517-22-2	Phenanthrene-d10	10200	16.698				
1719-03-5	Chrysene-d12	7830	20.956				
1520-96-3	Perylene-d12	8310	23.044				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	TT172S1-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-12		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035758.D	1	12/18/24 11:40	12/21/24 00:57	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		144%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3020	7.272				
1146-65-2	Naphthalene-d8	7990	10.02				
15067-26-2	Acenaphthene-d10	5430	13.925				
1517-22-2	Phenanthrene-d10	11200	16.698				
1719-03-5	Chrysene-d12	9760	20.956				
1520-96-3	Perylene-d12	9510	23.041				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW9-MW01S-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-13		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035760.D	1	12/18/24 11:40	12/21/24 02:10	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.57		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		109%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		112%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.63	*	58 - 132		157%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2910	7.272				
1146-65-2	Naphthalene-d8	7560	10.009				
15067-26-2	Acenaphthene-d10	4290	13.924				
1517-22-2	Phenanthrene-d10	8050	16.698				
1719-03-5	Chrysene-d12	6950	20.956				
1520-96-3	Perylene-d12	7200	23.044				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW9-MW01D1-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-14		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	960	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035761.D	1	12/18/24 11:40	12/21/24 02:46	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2850		7.264			
1146-65-2	Naphthalene-d8	7600		10.009			
15067-26-2	Acenaphthene-d10	5110		13.925			
1517-22-2	Phenanthrene-d10	9580		16.698			
1719-03-5	Chrysene-d12	8330		20.956			
1520-96-3	Perylene-d12	8880		23.038			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW9-MW01D2-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-15		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	860	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035779.D	1	12/18/24 11:40	12/23/24 12:08	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.23	U	0.080	0.23	0.23	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3150	7.265				
1146-65-2	Naphthalene-d8	7650	10.009				
15067-26-2	Acenaphthene-d10	4730	13.925				
1517-22-2	Phenanthrene-d10	9430	16.698				
1719-03-5	Chrysene-d12	7370	20.947				
1520-96-3	Perylene-d12	7350	23.032				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW9-MW01D3-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-16		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035780.D	1	12/18/24 11:40	12/23/24 12:43	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	58 - 132		162%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3380		7.264			
1146-65-2	Naphthalene-d8	8050		10.009			
15067-26-2	Acenaphthene-d10	5180		13.924			
1517-22-2	Phenanthrene-d10	10300		16.698			
1719-03-5	Chrysene-d12	8500		20.947			
1520-96-3	Perylene-d12	8330		23.035			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24	
Client Sample ID:	DUP-06-20241217		SDG No.:	P5317	
Lab Sample ID:	P5317-17		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035781.D	1	12/18/24 11:40	12/23/24 13:19	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.68	*	58 - 132		169%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3250		7.264			
1146-65-2	Naphthalene-d8	8200		10.009			
15067-26-2	Acenaphthene-d10	4640		13.924			
1517-22-2	Phenanthrene-d10	9140		16.698			
1719-03-5	Chrysene-d12	7340		20.947			
1520-96-3	Perylene-d12	7450		23.029			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-18		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035782.D	2	12/18/24 11:40	12/23/24 13:54	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.30	M	0.14	0.41	0.41	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3290		7.264			
1146-65-2	Naphthalene-d8	7970		10.009			
15067-26-2	Acenaphthene-d10	4990		13.924			
1517-22-2	Phenanthrene-d10	9920		16.698			
1719-03-5	Chrysene-d12	7840		20.947			
1520-96-3	Perylene-d12	8050		23.032			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RE132D6-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-21		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035787.D	1	12/18/24 12:50	12/23/24 16:52	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.10	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 - 150		126%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.70	*	58 - 132		175%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3000		7.265			
1146-65-2	Naphthalene-d8	7070		10.009			
15067-26-2	Acenaphthene-d10	4190		13.925			
1517-22-2	Phenanthrene-d10	8150		16.698			
1719-03-5	Chrysene-d12	7140		20.956			
1520-96-3	Perylene-d12	7410		23.038			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RE132D6-20241217DL		SDG No.:	P5317
Lab Sample ID:	P5317-21DL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035855.D	5	12/18/24 12:50	12/26/24 16:06	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.0	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		110%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.60		30 - 150		149%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.52	*	55 - 111		130%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.89	*	58 - 132		222%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2110	7.257				
1146-65-2	Naphthalene-d8	4650	10.009				
15067-26-2	Acenaphthene-d10	3240	13.925				
1517-22-2	Phenanthrene-d10	6850	16.711				
1719-03-5	Chrysene-d12	5250	20.956				
1520-96-3	Perylene-d12	4950	23.035				

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RE132D7-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-22		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035788.D	1	12/18/24 12:50	12/23/24 17:28	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3670		7.264			
1146-65-2	Naphthalene-d8	8520		10.009			
15067-26-2	Acenaphthene-d10	4980		13.925			
1517-22-2	Phenanthrene-d10	9850		16.698			
1719-03-5	Chrysene-d12	8500		20.947			
1520-96-3	Perylene-d12	8900		23.032			

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW8-MW01D2-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-24		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035789.D	1	12/18/24 12:50	12/23/24 18:04	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 - 150		127%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.76	*	58 - 132		190%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2960		7.264			
1146-65-2	Naphthalene-d8	6580		10.02			
15067-26-2	Acenaphthene-d10	3740		13.924			
1517-22-2	Phenanthrene-d10	7040		16.698			
1719-03-5	Chrysene-d12	6000		20.947			
1520-96-3	Perylene-d12	6060		23.032			

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RW8-MW01D3-20241217		SDG No.:	P5317
Lab Sample ID:	P5317-25		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035790.D	1	12/18/24 12:50	12/23/24 18:39	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		120%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		109%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3160		7.264			
1146-65-2	Naphthalene-d8	7440		10.009			
15067-26-2	Acenaphthene-d10	4220		13.924			
1517-22-2	Phenanthrene-d10	8390		16.698			
1719-03-5	Chrysene-d12	7270		20.947			
1520-96-3	Perylene-d12	7420		23.032			

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MDL = Method Detection Limit

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QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5317-01	RE114D2-20241216	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
P5317-02	RW4-20241216	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
P5317-03	TT191D1-20241216	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.43	106		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.61	152	*	58	132
P5317-04	TT191D2-20241216	2-Methylnaphthalene-d10	0.4	0.38	95		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.63	157	*	58	132
P5317-05	TT163S1-20241216	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.72	179	*	58	132
P5317-06	DUP-04-20241216	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.65	162	*	58	132
P5317-07	RW8-MW01S-20241216	2-Methylnaphthalene-d10	0.4	0.38	95		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.73	182	*	58	132
P5317-08	RW8-MW01D1-20241216	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.45	111		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.76	191	*	58	132
P5317-09	TT158S1-20241217	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.77	192	*	58	132
P5317-10	TT158I1-20241217	2-Methylnaphthalene-d10	0.4	0.38	95		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.62	154	*	58	132
P5317-11	DUP-05-20241217	2-Methylnaphthalene-d10	0.4	0.39	98		30	150

Surrogate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5317-11	DUP-05-20241217	Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.65	163	*	58	132
P5317-12	TT172S1-20241217	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
P5317-13	RW9-MW01S-20241217	Terphenyl-d14	0.4	0.58	144	*	58	132
		2-Methylnaphthalene-d10	0.4	0.44	109		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.44	111		55	111
P5317-14	RW9-MW01D1-20241217	2-Fluorobiphenyl	0.4	0.45	112	*	53	106
		Terphenyl-d14	0.4	0.63	157	*	58	132
		2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
P5317-15	RW9-MW01D2-20241217	Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
		2-Methylnaphthalene-d10	0.4	0.39	97		30	150
P5317-16	RW9-MW01D3-20241217	Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
P5317-17	DUP-06-20241217	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.43	106		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
P5317-18	RE132D5-20241217	Terphenyl-d14	0.4	0.65	162	*	58	132
		2-Methylnaphthalene-d10	0.4	0.42	104		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
P5317-19MS	RE132D5-20241217MS	2-Fluorobiphenyl	0.4	0.45	111	*	53	106
		Terphenyl-d14	0.4	0.68	169	*	58	132
		2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
P5317-20MSD	RE132D5-20241217MSD	Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
		2-Methylnaphthalene-d10	0.4	0.46	116		30	150
P5317-21MSD	RE132D5-20241217MSD	Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
P5317-22MSD	RE132D5-20241217MSD	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.37	94		53	106
PB165723BL	PB165723BL	Terphenyl-d14	0.4	0.67	168	*	58	132
		2-Methylnaphthalene-d10	0.4	0.42	105		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150

Surrogate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB165723BL	PB165723BL	Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
PB165723BS	PB165723BS	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.56	141	*	55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132

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Surrogate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5317-21	RE132D6-20241217	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.50	126		30	150
		Nitrobenzene-d5	0.4	0.44	111		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.70	175	*	58	132
P5317-21DL	RE132D6-20241217DL	2-Methylnaphthalene-d10	0.4	0.44	110		30	150
		Fluoranthene-d10	0.4	0.60	149		30	150
		Nitrobenzene-d5	0.4	0.52	130	*	55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.89	222	*	58	132
P5317-22	RE132D7-20241217	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P5317-24	RW8-MW01D2-20241217	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.51	127		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.44	111	*	53	106
		Terphenyl-d14	0.4	0.76	190	*	58	132
P5317-25	RW8-MW01D3-20241217	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.48	120		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.44	109	*	53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
PB165724BL	PB165724BL	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
PB165724BS	PB165724BS	2-Methylnaphthalene-d10	0.4	0.56	139		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.50	125	*	55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.50	125		58	132
PB165724BSD	PB165724BSD	2-Methylnaphthalene-d10	0.4	0.53	132		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.56	140	*	55	111
		2-Fluorobiphenyl	0.4	0.47	116	*	53	106
		Terphenyl-d14	0.4	0.51	128		58	132

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: P5317
Client: AECOM Technical Services, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P5317-19MS	Client Sample ID:	RE132D5-20241217MS					DataFile:	BN035783.D		
1,4-Dioxane	0.41	6.30	7.10	ug/L	195	*			70	130	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: P5317
Client: AECOM Technical Services, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P5317-20MSD	Client Sample ID:	RE132D5-20241217MSD					DataFile:	BN035784.D		
1,4-Dioxane	0.4	6.30	6.60	ug/L	75		89	*	70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN035764.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB165724BS	1,4-Dioxane	0.4	0.48	ug/L	120				70	130	

A

B

C

D

E

F

G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN035851.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165723BS	1,4-Dioxane	0.4	0.38	ug/L	95				70	130	

A

B

C

D

E

F

G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN035853.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165724BSD	1,4-Dioxane	0.4	0.45	ug/L	113	6			70	130	20

A

B

C

D

E

F

G

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165723BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5317

SAS No.: P5317 SDG NO.: P5317

Lab File ID: BN035750.D

Lab Sample ID: PB165723BL

Instrument ID: BNA_N

Date Extracted: 12/18/2024

Matrix: (soil/water) Water

Date Analyzed: 12/20/2024

Level: (low/med) LOW

Time Analyzed: 20:09

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TT158S1-20241217	P5317-09	BN035755.D	12/20/2024
TT158I1-20241217	P5317-10	BN035756.D	12/20/2024
DUP-05-20241217	P5317-11	BN035757.D	12/21/2024
TT172S1-20241217	P5317-12	BN035758.D	12/21/2024
RW9-MW01S-20241217	P5317-13	BN035760.D	12/21/2024
RW9-MW01D1-20241217	P5317-14	BN035761.D	12/21/2024
RW9-MW01D2-20241217	P5317-15	BN035779.D	12/23/2024
RW9-MW01D3-20241217	P5317-16	BN035780.D	12/23/2024
DUP-06-20241217	P5317-17	BN035781.D	12/23/2024
RE132D5-20241217	P5317-18	BN035782.D	12/23/2024
RE132D5-20241217MS	P5317-19MS	BN035783.D	12/23/2024
RE132D5-20241217MSD	P5317-20MSD	BN035784.D	12/23/2024
RE114D2-20241216	P5317-01	BN035743.D	12/20/2024
RW4-20241216	P5317-02	BN035744.D	12/20/2024
TT191D1-20241216	P5317-03	BN035745.D	12/20/2024
TT191D2-20241216	P5317-04	BN035746.D	12/20/2024
TT163S1-20241216	P5317-05	BN035751.D	12/20/2024
RW8-MW01D1-20241216	P5317-08	BN035759.D	12/21/2024
RW8-MW01S-20241216	P5317-07	BN035806.D	12/24/2024
DUP-04-20241216	P5317-06	BN035807.D	12/24/2024
PB165723BS	PB165723BS	BN035851.D	12/26/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165724BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5317

SAS No.: P5317 SDG NO.: P5317

Lab File ID: BN035846.D

Lab Sample ID: PB165724BL

Instrument ID: BNA_N

Date Extracted: 12/18/2024

Matrix: (soil/water) Water

Date Analyzed: 12/26/2024

Level: (low/med) LOW

Time Analyzed: 10:35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165724BSD	PB165724BSD	BN035853.D	12/26/2024
RE132D6-20241217	P5317-21	BN035787.D	12/23/2024
RE132D7-20241217	P5317-22	BN035788.D	12/23/2024
RW8-MW01D2-20241217	P5317-24	BN035789.D	12/23/2024
RW8-MW01D3-20241217	P5317-25	BN035790.D	12/23/2024
PB165724BS	PB165724BS	BN035764.D	12/21/2024

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: P5317

SDG NO.: P5317

Lab File ID: BN035349.D

DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N

DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: P5317 SDG NO.: P5317

Lab File ID: BN035730.D

DFTPP Injection Date: 12/20/2024

Instrument ID: BNA_N

DFTPP Injection Time: 07:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	38.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.5 (19.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035731.D	12/20/2024	08:04
RE114D2-20241216	P5317-01	BN035743.D	12/20/2024	15:54
RW4-20241216	P5317-02	BN035744.D	12/20/2024	16:30
TT191D1-20241216	P5317-03	BN035745.D	12/20/2024	17:06
TT191D2-20241216	P5317-04	BN035746.D	12/20/2024	17:42
SSTDCCC0.4EC	SSTDCCC0.4	BN035747.D	12/20/2024	18:18

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: P5317 SDG NO.: P5317

Lab File ID: BN035748.D

DFTPP Injection Date: 12/20/2024

Instrument ID: BNA_N

DFTPP Injection Time: 18:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	29.5
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.3 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035749.D	12/20/2024	19:33
PB165723BL	PB165723BL	BN035750.D	12/20/2024	20:09
TT163S1-20241216	P5317-05	BN035751.D	12/20/2024	20:45
TT158S1-20241217	P5317-09	BN035755.D	12/20/2024	23:09
TT158I1-20241217	P5317-10	BN035756.D	12/20/2024	23:45
DUP-05-20241217	P5317-11	BN035757.D	12/21/2024	00:21
TT172S1-20241217	P5317-12	BN035758.D	12/21/2024	00:57
RW8-MW01D1-20241216	P5317-08	BN035759.D	12/21/2024	01:34
RW9-MW01S-20241217	P5317-13	BN035760.D	12/21/2024	02:10
RW9-MW01D1-20241217	P5317-14	BN035761.D	12/21/2024	02:46
PB165724BS	PB165724BS	BN035764.D	12/21/2024	04:34
SSTDCCC0.4EC	SSTDCCC0.4	BN035765.D	12/21/2024	05:10

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: P5317 SDG NO.: P5317

Lab File ID: BN035775.D

DFTPP Injection Date: 12/23/2024

Instrument ID: BNA_N

DFTPP Injection Time: 09:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035776.D	12/23/2024	10:22
RW9-MW01D2-20241217	P5317-15	BN035779.D	12/23/2024	12:08
RW9-MW01D3-20241217	P5317-16	BN035780.D	12/23/2024	12:43
DUP-06-20241217	P5317-17	BN035781.D	12/23/2024	13:19
RE132D5-20241217	P5317-18	BN035782.D	12/23/2024	13:54
RE132D5-20241217MS	P5317-19MS	BN035783.D	12/23/2024	14:30
RE132D5-20241217MSD	P5317-20MSD	BN035784.D	12/23/2024	15:05
RE132D6-20241217	P5317-21	BN035787.D	12/23/2024	16:52
RE132D7-20241217	P5317-22	BN035788.D	12/23/2024	17:28
RW8-MW01D2-20241217	P5317-24	BN035789.D	12/23/2024	18:04
RW8-MW01D3-20241217	P5317-25	BN035790.D	12/23/2024	18:39
SSTDCCC0.4EC	SSTDCCC0.4	BN035792.D	12/23/2024	19:51

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: P5317 SDG NO.: P5317

Lab File ID: BN035793.D

DFTPP Injection Date: 12/23/2024

Instrument ID: BNA_N

DFTPP Injection Time: 20:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	32.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.8 (22.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035794.D	12/23/2024	22:16
RW8-MW01S-20241216	P5317-07	BN035806.D	12/24/2024	05:23
DUP-04-20241216	P5317-06	BN035807.D	12/24/2024	05:58
SSTDCCC0.4EC	SSTDCCC0.4	BN035809.D	12/24/2024	07:09

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: P5317

SDG NO.: P5317

Lab File ID: BN035844.D

DFTPP Injection Date: 12/26/2024

Instrument ID: BNA_N

DFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	32.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (20.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035845.D	12/26/2024	09:58
PB165724BL	PB165724BL	BN035846.D	12/26/2024	10:35
PB165723BS	PB165723BS	BN035851.D	12/26/2024	13:43
PB165724BSD	PB165724BSD	BN035853.D	12/26/2024	14:54
RE132D6-20241217DL	P5317-21DL	BN035855.D	12/26/2024	16:06
SSTDCCC0.4EC	SSTDCCC0.4	BN035861.D	12/26/2024	19:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035731.D Time Analyzed: 08:04

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3239	7.271	8431	10.02	5341	13.92
UPPER LIMIT	6478	7.771	16862	10.52	10682	14.424
LOWER LIMIT	1619.5	6.771	4215.5	9.52	2670.5	13.424
EPA SAMPLE NO.						
01 RE114D2-20241216	2642	7.27	7055	10.02	4649	13.93
02 RW4-20241216	2824	7.27	7117	10.02	4879	13.94
03 TT191D1-20241216	2571	7.27	6829	10.02	4492	13.93
04 TT191D2-20241216	2641	7.27	7163	10.01	4692	13.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035731.D Time Analyzed: 08:04

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	10575	16.698	8878	20.956	9229	23.038
UPPER LIMIT	21150	17.198	17756	21.456	18458	23.538
LOWER LIMIT	5287.5	16.198	4439	20.456	4614.5	22.538
EPA SAMPLE NO.						
01 RE114D2-20241216	9628	16.71	8017	20.96	8108	23.04
02 RW4-20241216	9700	16.70	7741	20.96	8015	23.04
03 TT191D1-20241216	8910	16.70	7476	20.96	7630	23.04
04 TT191D2-20241216	9734	16.70	8371	20.96	8463	23.04

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035749.D Time Analyzed: 19:33

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2885	7.272	7460	10.01	4592	13.93
UPPER LIMIT	5770	7.772	14920	10.509	9184	14.425
LOWER LIMIT	1442.5	6.772	3730	9.509	2296	13.425
EPA SAMPLE NO.						
01 TT163S1-20241216	2616	7.27	7194	10.02	4750	13.92
02 RW8-MW01D1-20241216	2535	7.27	6408	10.02	4317	13.92
03 TT158S1-20241217	2814	7.27	7435	10.02	5099	13.92
04 TT158I1-20241217	2808	7.27	7663	10.01	5091	13.93
05 DUP-05-20241217	3048	7.27	7896	10.02	5085	13.92
06 TT172S1-20241217	3020	7.27	7994	10.02	5431	13.93
07 RW9-MW01S-20241217	2910	7.27	7560	10.01	4294	13.92
08 RW9-MW01D1-20241217	2847	7.26	7595	10.01	5108	13.93
09 PB165723BL	2735	7.27	6564	10.02	4135	13.94
10 PB165724BS	2647	7.27	6538	10.01	3740	13.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035749.D Time Analyzed: 19:33

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	9182	16.698	7719	20.956	7943	23.038
UPPER LIMIT	18364	17.198	15438	21.456	15886	23.538
LOWER LIMIT	4591	16.198	3859.5	20.456	3971.5	22.538
EPA SAMPLE NO.						
01 TT163S1-20241216	9735	16.70	8218	20.96	8291	23.04
02 RW8-MW01D1-20241216	8567	16.70	6994	20.96	6882	23.04
03 TT158S1-20241217	10381	16.70	8559	20.96	8468	23.04
04 TT158I1-20241217	10809	16.70	9365	20.96	9217	23.04
05 DUP-05-20241217	10204	16.70	7830	20.96	8312	23.04
06 TT172S1-20241217	11209	16.70	9760	20.96	9507	23.04
07 RW9-MW01S-20241217	8049	16.70	6954	20.96	7204	23.04
08 RW9-MW01D1-20241217	9580	16.70	8327	20.96	8882	23.04
09 PB165723BL	7430	16.71	6469	20.97	6678	23.05
10 PB165724BS	6891	16.70	6144	20.96	6576	23.04

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035776.D Time Analyzed: 10:22

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3884	7.264	10099	10.01	5893	13.92
UPPER LIMIT	7768	7.764	20198	10.509	11786	14.424
LOWER LIMIT	1942	6.764	5049.5	9.509	2946.5	13.424
EPA SAMPLE NO.						
01 RW9-MW01D2-20241217	3151	7.27	7651	10.01	4726	13.93
02 RW9-MW01D3-20241217	3376	7.26	8045	10.01	5177	13.92
03 DUP-06-20241217	3246	7.26	8200	10.01	4641	13.92
04 RE132D5-20241217	3288	7.26	7965	10.01	4994	13.92
05 RE132D5-20241217MS	2865	7.26	7204	10.01	4339	13.92
06 RE132D5-20241217MSD	3322	7.26	9005	10.01	5678	13.92
07 RE132D6-20241217	3000	7.27	7074	10.01	4189	13.93
08 RE132D7-20241217	3668	7.26	8523	10.01	4977	13.93
09 RW8-MW01D2-20241217	2957	7.26	6578	10.02	3744	13.92
10 RW8-MW01D3-20241217	3160	7.26	7441	10.01	4220	13.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035776.D Time Analyzed: 10:22

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11548	16.698	8770	20.947	8918	23.026
	UPPER LIMIT	23096	17.198	17540	21.447	17836	23.526
	LOWER LIMIT	5774	16.198	4385	20.447	4459	22.526
	EPA SAMPLE NO.						
01	RW9-MW01D2-20241217	9433	16.70	7371	20.95	7348	23.03
02	RW9-MW01D3-20241217	10345	16.70	8498	20.95	8330	23.04
03	DUP-06-20241217	9144	16.70	7343	20.95	7454	23.03
04	RE132D5-20241217	9917	16.70	7844	20.95	8048	23.03
05	RE132D5-20241217MS	8809	16.70	7064	20.95	6166	23.03
06	RE132D5-20241217MSD	11083	16.70	7248	20.95	5290	23.03
07	RE132D6-20241217	8152	16.70	7140	20.96	7410	23.04
08	RE132D7-20241217	9853	16.70	8499	20.95	8895	23.03
09	RW8-MW01D2-20241217	7039	16.70	5995	20.95	6063	23.03
10	RW8-MW01D3-20241217	8391	16.70	7265	20.95	7419	23.03

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035794.D Time Analyzed: 22:16

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3234	7.264	7877	10.01	4482	13.92
UPPER LIMIT	6468	7.764	15754	10.509	8964	14.424
LOWER LIMIT	1617	6.764	3938.5	9.509	2241	13.424
EPA SAMPLE NO.						
01 DUP-04-20241216	3911	7.26	9861	10.01	5847	13.93
02 RW8-MW01S-20241216	3576	7.26	8965	10.01	6221	13.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035794.D Time Analyzed: 22:16

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	8845	16.698	7163	20.947	7277	23.032
UPPER LIMIT	17690	17.198	14326	21.447	14554	23.532
LOWER LIMIT	4422.5	16.198	3581.5	20.447	3638.5	22.532
EPA SAMPLE NO.						
01 DUP-04-20241216	11883	16.70	10654	20.95	10068	23.03
02 RW8-MW01S-20241216	13726	16.70	11081	20.95	9977	23.03

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3755	7.257	9322	10.00	5387	13.91
UPPER LIMIT	7510	7.757	18644	10.499	10774	14.414
LOWER LIMIT	1877.5	6.757	4661	9.499	2693.5	13.414
EPA SAMPLE NO.						
01 RE132D6-20241217DL	2113	7.26	4648 *	10.01	3235	13.93
02 PB165723BS	4815	7.26	12194	10.00	6998	13.91
03 PB165724BL	4513	7.26	10649	10.00	6575	13.92
04 PB165724BSD	2938	7.26	6908	10.00	3870	13.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	11262	16.686	9932	20.938	10817	23.021
UPPER LIMIT	22524	17.186	19864	21.438	21634	23.521
LOWER LIMIT	5631	16.186	4966	20.438	5408.5	22.521
EPA SAMPLE NO.						
01 RE132D6-20241217DL	6850	16.71	5245	20.96	4953 *	23.04
02 PB165723BS	13642	16.69	9729	20.94	10279	23.02
03 PB165724BL	14052	16.70	10269	20.95	9894	23.03
04 PB165724BSD	7401	16.70	5744	20.95	6254	23.02

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB165723BL		SDG No.:	P5317
Lab Sample ID:	PB165723BL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035750.D	1	12/18/24 11:40	12/20/24 20:09	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		105%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2740	7.272				
1146-65-2	Naphthalene-d8	6560	10.02				
15067-26-2	Acenaphthene-d10	4140	13.935				
1517-22-2	Phenanthrene-d10	7430	16.711				
1719-03-5	Chrysene-d12	6470	20.965				
1520-96-3	Perylene-d12	6680	23.047				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB165724BL		SDG No.:	P5317
Lab Sample ID:	PB165724BL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035846.D	1	12/18/24 12:50	12/26/24 10:35	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4510	7.257				
1146-65-2	Naphthalene-d8	10600	9.999				
15067-26-2	Acenaphthene-d10	6580	13.924				
1517-22-2	Phenanthrene-d10	14100	16.698				
1719-03-5	Chrysene-d12	10300	20.947				
1520-96-3	Perylene-d12	9890	23.029				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB165723BS		SDG No.:	P5317
Lab Sample ID:	PB165723BS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035851.D	1	12/18/24 11:40	12/26/24 13:43	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.56	*	55 - 111		141%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4820	7.257				
1146-65-2	Naphthalene-d8	12200	9.999				
15067-26-2	Acenaphthene-d10	7000	13.914				
1517-22-2	Phenanthrene-d10	13600	16.686				
1719-03-5	Chrysene-d12	9730	20.938				
1520-96-3	Perylene-d12	10300	23.024				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB165724BS		SDG No.:	P5317
Lab Sample ID:	PB165724BS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035764.D	1	12/18/24 12:50	12/21/24 04:34	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.48		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.56		30 - 150		139%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.50	*	55 - 111		125%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2650	7.271				
1146-65-2	Naphthalene-d8	6540	10.009				
15067-26-2	Acenaphthene-d10	3740	13.924				
1517-22-2	Phenanthrene-d10	6890	16.698				
1719-03-5	Chrysene-d12	6140	20.955				
1520-96-3	Perylene-d12	6580	23.041				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB165724BSD		SDG No.:	P5317
Lab Sample ID:	PB165724BSD		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035853.D	1	12/18/24 12:50	12/26/24 14:54	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.45		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		132%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.56	*	55 - 111		140%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		116%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2940	7.257				
1146-65-2	Naphthalene-d8	6910	9.999				
15067-26-2	Acenaphthene-d10	3870	13.914				
1517-22-2	Phenanthrene-d10	7400	16.698				
1719-03-5	Chrysene-d12	5740	20.947				
1520-96-3	Perylene-d12	6250	23.024				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MS		SDG No.:	P5317
Lab Sample ID:	P5317-19MS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035783.D	2	12/18/24 11:40	12/23/24 14:30	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.10		0.14	0.41	0.41	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2870		7.264			
1146-65-2	Naphthalene-d8	7200		10.009			
15067-26-2	Acenaphthene-d10	4340		13.924			
1517-22-2	Phenanthrene-d10	8810		16.698			
1719-03-5	Chrysene-d12	7060		20.947			
1520-96-3	Perylene-d12	6170		23.032			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MSD	SDG No.:	P5317
Lab Sample ID:	P5317-20MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035784.D	2	12/18/24 11:40	12/23/24 15:05	PB165723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.60		0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.67	*	58 - 132		168%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3320		7.264			
1146-65-2	Naphthalene-d8	9010		10.009			
15067-26-2	Acenaphthene-d10	5680		13.924			
1517-22-2	Phenanthrene-d10	11100		16.698			
1719-03-5	Chrysene-d12	7250		20.947			
1520-96-3	Perylene-d12	5290		23.032			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112724.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 27 23:03:24 2024
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)	n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4) S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5) S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)	bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)	Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)	Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11) SURR2	Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)	2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15) S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)	Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)	Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)	Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)	4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)	Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)	Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)	Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)	Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)	Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27) SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)	Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31) S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)	Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)	Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)	Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN112724.M

36)	Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)	Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)	Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39) C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)	Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)	Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15
 Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317
 Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 08:04
 Lab File ID: BN035731.D Init. Calib. Date(s): 11/27/2024 11/27/2024
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.562		-10.2	20.0
Fluoranthene-d10	1.134	0.985		-13.1	20.0
2-Fluorophenol	1.001	0.990		-1.1	20.0
Phenol-d6	1.204	1.140		-5.3	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.376		-9.0	20.0
2,4,6-Tribromophenol	0.284	0.221		-22.2	20.0
Terphenyl-d14	0.789	0.839		6.3	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 18:18

Lab File ID: BN035747.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.618		-1.3	50.0
Fluoranthene-d10	1.134	1.034		-8.8	50.0
2-Fluorophenol	1.001	0.002		-99.8	50.0
Phenol-d6	1.204	0.025		-97.9	50.0
Nitrobenzene-d5	0.244	0.005		-98.0	50.0
2-Fluorobiphenyl	1.512	0.002		-99.9	50.0
2,4,6-Tribromophenol	0.284	0.001		-99.6	50.0
Terphenyl-d14	0.789	0.003		-99.6	50.0
1,4-Dioxane	0.382	0.448		17.3	50.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 19:33

Lab File ID: BN035749.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.622		-0.6	20.0
Fluoranthene-d10	1.134	1.074		-5.3	20.0
2-Fluorophenol	1.001	1.021		2.0	20.0
Phenol-d6	1.204	1.178		-2.2	20.0
Nitrobenzene-d5	0.244	0.294		20.5	20.0
2-Fluorobiphenyl	1.512	1.560		3.2	20.0
2,4,6-Tribromophenol	0.284	0.235		-17.3	20.0
Terphenyl-d14	0.789	0.891		12.9	20.0
1,4-Dioxane	0.382	0.445		16.5	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: BNA_N Calibration Date/Time: 12/21/2024 05:10

Lab File ID: BN035765.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.578		-7.7	50.0
Fluoranthene-d10	1.134	0.989		-12.8	50.0
2-Fluorophenol	1.001	0.960		-4.1	50.0
Phenol-d6	1.204	1.094		-9.1	50.0
Nitrobenzene-d5	0.244	0.284		16.4	50.0
2-Fluorobiphenyl	1.512	1.389		-8.1	50.0
2,4,6-Tribromophenol	0.284	0.215		-24.3	50.0
Terphenyl-d14	0.789	0.863		9.4	50.0
1,4-Dioxane	0.382	0.439		14.9	50.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15
 Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317
 Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 10:22
 Lab File ID: BN035776.D Init. Calib. Date(s): 11/27/2024 11/27/2024
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.601		-4.0	20.0
Fluoranthene-d10	1.134	1.037		-8.6	20.0
2-Fluorophenol	1.001	1.009		0.7	20.0
Phenol-d6	1.204	1.111		-7.7	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.601		5.9	20.0
2,4,6-Tribromophenol	0.284	0.205		-27.8	20.0
Terphenyl-d14	0.789	0.943		19.5	20.0
1,4-Dioxane	0.382	0.429		12.3	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 19:51

Lab File ID: BN035792.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.557		-11.0	50.0
Fluoranthene-d10	1.134	0.972		-14.3	50.0
2-Fluorophenol	1.001	0.954		-4.7	50.0
Phenol-d6	1.204	1.061		-11.9	50.0
Nitrobenzene-d5	0.244	0.295		20.9	50.0
2-Fluorobiphenyl	1.512	1.518		0.4	50.0
2,4,6-Tribromophenol	0.284	0.220		-22.5	50.0
Terphenyl-d14	0.789	0.806		2.2	50.0
1,4-Dioxane	0.382	0.383		0.3	50.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 22:16

Lab File ID: BN035794.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.540		-13.7	20.0
Fluoranthene-d10	1.134	0.950		-16.2	20.0
2-Fluorophenol	1.001	0.924		-7.7	20.0
Phenol-d6	1.204	1.016		-15.6	20.0
Nitrobenzene-d5	0.244	0.278		13.9	20.0
2-Fluorobiphenyl	1.512	1.529		1.1	20.0
2,4,6-Tribromophenol	0.284	0.208		-26.8	20.0
Terphenyl-d14	0.789	0.785		-0.5	20.0
1,4-Dioxane	0.382	0.419		9.7	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15
 Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317
 Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 07:09
 Lab File ID: BN035809.D Init. Calib. Date(s): 11/27/2024 11/27/2024
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.563		-10.1	50.0
Fluoranthene-d10	1.134	0.947		-16.5	50.0
2-Fluorophenol	1.001	0.946		-5.5	50.0
Phenol-d6	1.204	1.086		-9.8	50.0
Nitrobenzene-d5	0.244	0.307		25.8	50.0
2-Fluorobiphenyl	1.512	1.535		1.5	50.0
2,4,6-Tribromophenol	0.284	0.224		-21.1	50.0
Terphenyl-d14	0.789	0.817		3.5	50.0
1,4-Dioxane	0.382	0.382		0.0	50.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15
 Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317
 Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 09:58
 Lab File ID: BN035845.D Init. Calib. Date(s): 11/27/2024 11/27/2024
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.545		-12.9	20.0
Fluoranthene-d10	1.134	0.991		-12.6	20.0
2-Fluorophenol	1.001	1.006		0.5	20.0
Phenol-d6	1.204	1.112		-7.6	20.0
Nitrobenzene-d5	0.244	0.298		22.1	20.0
2-Fluorobiphenyl	1.512	1.504		-0.5	20.0
2,4,6-Tribromophenol	0.284	0.248		-12.7	20.0
Terphenyl-d14	0.789	0.784		-0.6	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317
Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41
Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024
EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	50.0
Fluoranthene-d10	1.134	0.922		-18.7	50.0
2-Fluorophenol	1.001	0.931		-7.0	50.0
Phenol-d6	1.204	1.022		-15.1	50.0
Nitrobenzene-d5	0.244	0.306		25.4	50.0
2-Fluorobiphenyl	1.512	1.480		-2.1	50.0
2,4,6-Tribromophenol	0.284	0.225		-20.8	50.0
Terphenyl-d14	0.789	0.898		13.8	50.0
1,4-Dioxane	0.382	0.394		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041881

PS317

7
7.1

CLIENT INFORMATION

COMPANY: **RESOLUTION**

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: **E. VIVAUDOU**

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **NWIRP BETHPAGE**

PROJECT NO.: **60731872** LOCATION: **BETHPAGE**

PROJECT MANAGER: **E. VIVAUDOU**

e-mail: **ELIANOR.VIVAUDOU@AECOM.COM**

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: **E. VIVAUDOU** PO#:

ADDRESS: **27 ELLIS PLACE**

CITY: **ROSSINING** STATE: **NY** ZIP: **10563**

ATTENTION: **E. VIVAUDOU** PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **8** DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: **STANDARD** DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data ☐ Other

☒ EDD FORMAT **NY/DEC EDD CAT 2**

VOL 8260
1.4 DIOXANE SIM
8270

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	RE11402-2024/12/16	GW	X		12/16/24	09/15	3	2	1								
2.	RW4-2024/12/16	GW	X			1100	3	2	1								
3.	TT191D1-2024/12/16	GW	X			1036	3	2	1								
4.	TT191D2-2024/12/16	GW	X			0934	3	2	1								
5.	TT163S1-2024/12/16	GW	X			1320	3	2	1								
6.	DUP-04-2024/12/16	GW	X			-	3	2	1								
7.	RW8-MW01S-2024/12/16	GW	X			1408	3	2	1								
8.	RW8-MW01D1-2024/12/16	GW	X			1257	3	2	1								
9.	TT158S1-2024/12/17	GW	X		12-17-24	0845	3	2	1								
10.	TT158S1-2024/12/17	GW	X		12-17-24	0440	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP
1.	12-17-24	1530	2.9 °C
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Comments:
2.			
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.	12-17-24		

Page 1 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. PS317
QUOTE NO.
COC Number 2041249

7
7.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 6071872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY: OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☒ EDD FORMAT NYSDEC EDD/ATR

*VOCS 8260
14 DICHALE SIM
8270*

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		ME	E								← Specify Preservatives	
1.	DUP-05-20241217	6W	X	X	12-17-24	-	3	2	1								A-HCl	D-NaOH
2.	RE 1172 S1-20241217	6W	X	X		1200	3	2	1								B-HNO3	E-ICE
3.	RW9-MW01S-20241217	6W	X	X		1110	3	2	1								C-H2SO4	F-OTHER
4.	RW9-MW01D1-20241217	6W	X	X		1110	3	2	1									
5.	RW9-MW01D2-20241217	6W	X	X		0930	3	2	1									
6.	RW9-MW01D3-20241217	6W	X	X		0945	3	2	1									
7.	DUP-06-20241217	6W	X	X		-	3	2	1									
8.	RE 132 D5-20241217	6W	X	X		0835	9	6	3									
9.	RE 132 D6-20241217	6W	X	X		0945	3	2	1									
10.	RE 132 D7-20241217	6W	X	X		1130	3	2	1									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP
1.	12-17-24	1. 1530	2. 8°C
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Comments:
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.	12-17-24	3.	

Page 2 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

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www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

PS317

2041052

7
7.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY: OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
X EDD FORMAT NYS DEC EDD QT B

VOCs 8260
14 Dioxane 8270

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

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TB	DW		X	11-15-24	-	2	2									
2.	RWS-MW01D2-2024/12/17	GW		X	12-17-24	1345	3	2	1								
3.	RWS-MW01D3-2024/12/17	GW		X	12-17-24	1430	3	2	1								
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1.	DATE/TIME: <u>12-17-24</u>	RECEIVED BY: 1530	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP. <u>2.5°C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: <u>12-17-24</u>	RECEIVED BY: 3.	

Page 3 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

P5317

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

267 of 272

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317	AECO15	Order Date : 12/17/2024 3:48:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive DateTime : 12/17/2024 6:30:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5317-01	RE114D2-20241216	Water	12/16/2024	09:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-02	RW4-20241216	Water	12/16/2024	11:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-03	TT191D1-20241216	Water	12/16/2024	10:36					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-04	TT191D2-20241216	Water	12/16/2024	09:34					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-05	TT163S1-20241216	Water	12/16/2024	13:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-06	DUP-04-20241216	Water	12/16/2024	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-07	RW8-MW01S-20241216	Water	12/16/2024	14:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-08	RW8-MW01D1-20241216	Water	12/16/2024	12:57					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317	AECO15	Order Date : 12/17/2024 3:48:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive DateTime : 12/17/2024 6:30:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5317-09	TT158S1-20241217	Water	12/17/2024	08:45	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-10	TT158I1-20241217	Water	12/17/2024	09:40	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-11	DUP-05-20241217	Water	12/17/2024	00:00	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-12	TT172S1-20241217	Water	12/17/2024	12:00	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-13	RW9-MW01S-20241217	Water	12/17/2024	11:10	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-14	RW9-MW01D1-20241217	Water	12/17/2024	11:10	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-15	RW9-MW01D2-20241217	Water	12/17/2024	09:30	VOCMS Group1		8260-Low	10 Bus. Days	
P5317					VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317	AECO15	Order Date : 12/17/2024 3:48:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive Date/Time : 12/17/2024 6:30:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5317-16	RW9-MW01D3-20241217	Water	12/17/2024	09:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-17	DUP-06-20241217	Water	12/17/2024	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-18	RE132D5-20241217	Water	12/17/2024	08:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-19	P5317-18MS	Water	12/17/2024	08:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-20	P5317-18MSD	Water	12/17/2024	08:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-21	RE132D6-20241217	Water	12/17/2024	09:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-22	RE132D7-20241217	Water	12/17/2024	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5317-23	TB	Water	12/17/2024	00:00					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317	AECO15	Order Date : 12/17/2024 3:48:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive DateTime : 12/17/2024 6:30:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5317-24	RW8-MW01D2-20241217	Water	12/17/2024	13:45	VOCMS Group1		8260-Low	10 Bus. Days	
P5317-25	RW8-MW01D3-20241217	Water	12/17/2024	14:30	VOCMS Group1		8260-Low	10 Bus. Days	
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By : cl
Date / Time : 12-18-24 1045

Received By : [Signature]
Date / Time : 12-18-24 10:45

Storage Area : VOA Refridgerator Room