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

LAB CHRONICLE

OrderID:	Q1557	**OrderDate:**	3/12/2025 4:47:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	I41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1557-01	**BPOW6-7-20250312**	**Water**			**03/12/25**			**03/12/25**
			VOCMS Group1	8260-Low			03/18/25	
Q1557-02	**BPOW6-8-20250312**	**Water**			**03/12/25**			**03/12/25**
			VOCMS Group1	8260-Low			03/18/25	
Q1557-03	**BPOW6-9-20250312**	**Water**			**03/12/25**			**03/12/25**
			VOCMS Group1	8260-Low			03/18/25	
Q1557-06	**BPOW6-10-20250312**	**Water**			**03/12/25**			**03/12/25**
			VOCMS Group1	8260-Low			03/18/25	
Q1557-07	**BPOW6-11-20250312**	**Water**			**03/12/25**			**03/12/25**
			VOCMS Group1	8260-Low			03/18/25	
Q1557-08	**DUP04-20250312**	**Water**			**03/12/25**			**03/12/25**
			VOCMS Group1	8260-Low			03/18/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BPOW6-7-20250312**								
Q1557-01	BPOW6-7-2025031	Water	Acetone	2.70	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.70					
			Total Concentration:	2.70					
Client ID:	**BPOW6-8-20250312**								
Q1557-02	BPOW6-8-2025031	Water	Acetone	2.40	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.40					
			Total Concentration:	2.40					
Client ID:	**BPOW6-9-20250312**								
Q1557-03	BPOW6-9-2025031	Water	Acetone	1.80	J	1.50	3.80	5.00	ug/L
Q1557-03	BPOW6-9-2025031	Water	Trichloroethene	0.56	J	0.090	0.75	1.00	ug/L
			Total Voc :	2.36					
			Total Concentration:	2.36					
Client ID:	**BPOW6-10-20250312**								
Q1557-06	BPOW6-10-202503	Water	Acetone	1.60	J	1.50	3.80	5.00	ug/L
			Total Voc :	1.60					
			Total Concentration:	1.60					
Client ID:	**BPOW6-11-20250312**								
Q1557-07	BPOW6-11-202503	Water	Acetone	2.20	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.20					
			Total Concentration:	2.20					
Client ID:	**DUP04-20250312**								
Q1557-08	DUP04-20250312	Water	Acetone	2.60	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.60					
			Total Concentration:	2.60					

SAMPLE DATA

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-7-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-01	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
VX045324.D	1		03/18/25 14:51	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.70	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-7-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-01	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
VX045324.D	1		03/18/25 14:51	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	51.8		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65100	5.544				
540-36-3	1,4-Difluorobenzene	128000	6.757				
3114-55-4	Chlorobenzene-d5	121000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49800	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-7-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-01	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
VX045324.D	1		03/18/25 14:51	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-8-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-02	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
VX045325.D	1		03/18/25 15:14	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.40	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-8-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-02	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
VX045325.D	1		03/18/25 15:14	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.3		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	68500	5.544				
540-36-3	1,4-Difluorobenzene	134000	6.757				
3114-55-4	Chlorobenzene-d5	117000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	43900	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-8-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-02	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
VX045325.D	1		03/18/25 15:14	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-03	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
VX045335.D	1		03/18/25 19:07	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.80	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.56	J	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-03	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
VX045335.D	1		03/18/25 19:07	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.3		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.3		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65500	5.544				
540-36-3	1,4-Difluorobenzene	130000	6.757				
3114-55-4	Chlorobenzene-d5	120000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	50300	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-03	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
VX045335.D	1		03/18/25 19:07	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-10-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-06	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
VX045326.D	1		03/18/25 15:38	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-10-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-06	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
VX045326.D	1		03/18/25 15:38	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.6		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.7		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	66600	5.544				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	121000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	52000	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-10-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-06	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
VX045326.D	1		03/18/25 15:38	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-11-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-07	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
VX045327.D	1		03/18/25 16:01	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.20	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-11-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-07	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
VX045327.D	1		03/18/25 16:01	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.5		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	71500	5.55				
540-36-3	1,4-Difluorobenzene	141000	6.757				
3114-55-4	Chlorobenzene-d5	127000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	51000	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-11-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-07	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
VX045327.D	1		03/18/25 16:01	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	DUP04-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-08	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
VX045328.D	1		03/18/25 16:24	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.60	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	DUP04-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-08	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
VX045328.D	1		03/18/25 16:24	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.5		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65100	5.55				
540-36-3	1,4-Difluorobenzene	129000	6.757				
3114-55-4	Chlorobenzene-d5	119000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49000	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	DUP04-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-08	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
VX045328.D	1		03/18/25 16:24	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Surrogate Summary

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1557-01	BPOW6-7-20250312	1,2-Dichloroethane-d4	50	56.4	113	81	118
		Dibromofluoromethane	50	53.4	107	80	119
		Toluene-d8	50	51.8	104	89	112
		4-Bromofluorobenzene	50	54.3	109	85	114
Q1557-02	BPOW6-8-20250312	1,2-Dichloroethane-d4	50	55.3	111	81	118
		Dibromofluoromethane	50	52.9	106	80	119
		Toluene-d8	50	52.1	104	89	112
		4-Bromofluorobenzene	50	49.7	99	85	114
Q1557-03	BPOW6-9-20250312	1,2-Dichloroethane-d4	50	57.3	115	81	118
		Dibromofluoromethane	50	51.8	104	80	119
		Toluene-d8	50	52.3	105	89	112
		4-Bromofluorobenzene	50	55.1	110	85	114
Q1557-04MS	BPOW6-9-20250312MS	1,2-Dichloroethane-d4	50	56.9	114	81	118
		Dibromofluoromethane	50	53.8	108	80	119
		Toluene-d8	50	52.2	104	89	112
		4-Bromofluorobenzene	50	56.3	112	85	114
Q1557-05MSD	BPOW6-9-20250312MSD	1,2-Dichloroethane-d4	50	52.2	104	81	118
		Dibromofluoromethane	50	49.6	99	80	119
		Toluene-d8	50	48.6	97	89	112
		4-Bromofluorobenzene	50	54.2	108	85	114
Q1557-06	BPOW6-10-20250312	1,2-Dichloroethane-d4	50	56.6	113	81	118
		Dibromofluoromethane	50	51.5	103	80	119
		Toluene-d8	50	51.6	103	89	112
		4-Bromofluorobenzene	50	53.7	107	85	114
Q1557-07	BPOW6-11-20250312	1,2-Dichloroethane-d4	50	56.5	113	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	50.7	101	85	114
Q1557-08	DUP04-20250312	1,2-Dichloroethane-d4	50	57.5	115	81	118
		Dibromofluoromethane	50	52.2	104	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	55.3	111	85	114
VX0318WBL01	VX0318WBL01	1,2-Dichloroethane-d4	50	56.3	113	81	118
		Dibromofluoromethane	50	54.0	108	80	119
		Toluene-d8	50	52.3	105	89	112
		4-Bromofluorobenzene	50	52.2	104	85	114
VX0318WBS01	VX0318WBS01	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	52.9	106	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	54.1	108	85	114

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1557-04MS		**Client Sample ID : BPOW6-9-20250312MS**						**Datafile :** VX045336.D			
Dichlorodifluoromethane	50	0	50.6	ug/L	101				32	152	
Chloromethane	50	0	47.6	ug/L	95				50	139	
Vinyl chloride	50	0	44.6	ug/L	89				58	137	
Bromomethane	50	0	46.5	ug/L	93				53	141	
Chloroethane	50	0	45.0	ug/L	90				60	138	
Trichlorofluoromethane	50	0	48.8	ug/L	98				65	141	
1,1,2-Trichlorotrifluoroethane	50	0	55.8	ug/L	112				70	136	
1,1-Dichloroethene	50	0	51.2	ug/L	102				71	131	
Acetone	250	1.80	270	ug/L	107				39	160	
Carbon disulfide	50	0	40.0	ug/L	80				64	133	
Methyl tert-butyl Ether	50	0	52.8	ug/L	106				71	124	
Methyl Acetate	50	0	59.1	ug/L	118				56	136	
Methylene Chloride	50	0	50.6	ug/L	101				74	124	
trans-1,2-Dichloroethene	50	0	51.6	ug/L	103				75	124	
1,1-Dichloroethane	50	0	52.9	ug/L	106				77	125	
Cyclohexane	50	0	51.1	ug/L	102				71	130	
2-Butanone	250	0	270	ug/L	108				56	143	
Carbon Tetrachloride	50	0	51.7	ug/L	103				72	136	
cis-1,2-Dichloroethene	50	0	52.8	ug/L	106				78	123	
Bromochloromethane	50	0	51.6	ug/L	103				78	123	
Chloroform	50	0	55.1	ug/L	110				79	124	
1,1,1-Trichloroethane	50	0	54.1	ug/L	108				74	131	
Methylcyclohexane	50	0	51.9	ug/L	104				72	132	
Benzene	50	0	51.4	ug/L	103				79	120	
1,2-Dichloroethane	50	0	56.1	ug/L	112				73	128	
Trichloroethene	50	0.56	49.9	ug/L	99				79	123	
1,2-Dichloropropane	50	0	51.9	ug/L	104				78	122	
Bromodichloromethane	50	0	53.9	ug/L	108				79	125	
4-Methyl-2-Pentanone	250	0	280	ug/L	112				67	130	
Toluene	50	0	52.9	ug/L	106				80	121	
t-1,3-Dichloropropene	50	0	53.4	ug/L	107				73	127	
cis-1,3-Dichloropropene	50	0	52.8	ug/L	106				75	124	
1,1,2-Trichloroethane	50	0	53.4	ug/L	107				80	119	
2-Hexanone	250	0	280	ug/L	112				57	139	
Dibromochloromethane	50	0	53.3	ug/L	107				74	126	
1,2-Dibromoethane	50	0	52.5	ug/L	105				77	121	
Tetrachloroethene	50	0	50.2	ug/L	100				74	129	
Chlorobenzene	50	0	51.9	ug/L	104				82	118	
Ethyl Benzene	50	0	53.0	ug/L	106				79	121	
m/p-Xylenes	100	0	100	ug/L	100				80	121	
o-Xylene	50	0	52.1	ug/L	104				78	122	
Styrene	50	0	54.8	ug/L	110				78	123	
Bromoform	50	0	51.9	ug/L	104				66	130	
Isopropylbenzene	50	0	51.6	ug/L	103				72	131	
1,1,2,2-Tetrachloroethane	50	0	50.7	ug/L	101				71	121	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	51.5	ug/L	103				80	119	
1,4-Dichlorobenzene	50	0	50.8	ug/L	102				79	118	
1,2-Dichlorobenzene	50	0	52.5	ug/L	105				80	119	
1,2-Dibromo-3-Chloropropane	50	0	52.6	ug/L	105				62	128	
1,2,4-Trichlorobenzene	50	0	52.1	ug/L	104				69	130	
1,2,3-Trichlorobenzene	50	0	53.3	ug/L	107				69	129	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1557-05MSD	**Client Sample ID :** BPOW6-9-20250312MSD							**Datafile :** VX045337.D			
Dichlorodifluoromethane	50	0	50.0	ug/L	100		1		32	152	20
Chloromethane	50	0	48.5	ug/L	97		2		50	139	20
Vinyl chloride	50	0	43.8	ug/L	88		2		58	137	20
Bromomethane	50	0	50.0	ug/L	100		7		53	141	20
Chloroethane	50	0	52.2	ug/L	104		15		60	138	20
Trichlorofluoromethane	50	0	50.3	ug/L	101		3		65	141	20
1,1,2-Trichlorotrifluoroethane	50	0	55.8	ug/L	112		0		70	136	20
1,1-Dichloroethene	50	0	50.9	ug/L	102		1		71	131	20
Acetone	250	1.80	270	ug/L	107		0		39	160	20
Carbon disulfide	50	0	41.6	ug/L	83		4		64	133	20
Methyl tert-butyl Ether	50	0	54.8	ug/L	110		4		71	124	20
Methyl Acetate	50	0	60.7	ug/L	121		3		56	136	20
Methylene Chloride	50	0	51.9	ug/L	104		3		74	124	20
trans-1,2-Dichloroethene	50	0	51.7	ug/L	103		0		75	124	20
1,1-Dichloroethane	50	0	54.1	ug/L	108		2		77	125	20
Cyclohexane	50	0	51.7	ug/L	103		1		71	130	20
2-Butanone	250	0	280	ug/L	112		4		56	143	20
Carbon Tetrachloride	50	0	54.6	ug/L	109		5		72	136	20
cis-1,2-Dichloroethene	50	0	53.6	ug/L	107		2		78	123	20
Bromochloromethane	50	0	52.7	ug/L	105		2		78	123	20
Chloroform	50	0	55.5	ug/L	111		1		79	124	20
1,1,1-Trichloroethane	50	0	56.1	ug/L	112		4		74	131	20
Methylcyclohexane	50	0	53.9	ug/L	108		4		72	132	20
Benzene	50	0	52.4	ug/L	105		2		79	120	20
1,2-Dichloroethane	50	0	57.5	ug/L	115		2		73	128	20
Trichloroethene	50	0.56	52.0	ug/L	103		4		79	123	20
1,2-Dichloropropane	50	0	52.3	ug/L	105		1		78	122	20
Bromodichloromethane	50	0	56.6	ug/L	113		5		79	125	20
4-Methyl-2-Pentanone	250	0	290	ug/L	116		4		67	130	20
Toluene	50	0	54.9	ug/L	110		4		80	121	20
t-1,3-Dichloropropene	50	0	55.6	ug/L	111		4		73	127	20
cis-1,3-Dichloropropene	50	0	55.0	ug/L	110		4		75	124	20
1,1,2-Trichloroethane	50	0	55.6	ug/L	111		4		80	119	20
2-Hexanone	250	0	300	ug/L	120		7		57	139	20
Dibromochloromethane	50	0	57.3	ug/L	115		7		74	126	20
1,2-Dibromoethane	50	0	55.5	ug/L	111		6		77	121	20
Tetrachloroethene	50	0	50.7	ug/L	101		1		74	129	20
Chlorobenzene	50	0	53.7	ug/L	107		3		82	118	20
Ethyl Benzene	50	0	54.9	ug/L	110		4		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		10		80	121	20
o-Xylene	50	0	54.2	ug/L	108		4		78	122	20
Styrene	50	0	57.4	ug/L	115		5		78	123	20
Bromoform	50	0	56.3	ug/L	113		8		66	130	20
Isopropylbenzene	50	0	54.1	ug/L	108		5		72	131	20
1,1,2,2-Tetrachloroethane	50	0	53.2	ug/L	106		5		71	121	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	54.2	ug/L	108		5		80	119	20
1,4-Dichlorobenzene	50	0	53.1	ug/L	106		4		79	118	20
1,2-Dichlorobenzene	50	0	54.2	ug/L	108		3		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	56.0	ug/L	112		6		62	128	20
1,2,4-Trichlorobenzene	50	0	55.3	ug/L	111		6		69	130	20
1,2,3-Trichlorobenzene	50	0	54.0	ug/L	108		1		69	129	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045315.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0318WBS01	Dichlorodifluoromethane	20	18.6	ug/L	93			32	152	
	Chloromethane	20	16.7	ug/L	84			50	139	
	Vinyl chloride	20	15.9	ug/L	79			58	137	
	Bromomethane	20	18.2	ug/L	91			53	141	
	Chloroethane	20	20.3	ug/L	102			60	138	
	Trichlorofluoromethane	20	18.6	ug/L	93			65	141	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70	136	
	1,1-Dichloroethene	20	18.5	ug/L	93			71	131	
	Acetone	100	99.4	ug/L	99			39	160	
	Carbon disulfide	20	14.6	ug/L	73			64	133	
	Methyl tert-butyl Ether	20	19.8	ug/L	99			71	124	
	Methyl Acetate	20	24.5	ug/L	123			56	136	
	Methylene Chloride	20	18.8	ug/L	94			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	19.7	ug/L	99			77	125	
	Cyclohexane	20	18.6	ug/L	93			71	130	
	2-Butanone	100	100	ug/L	100			56	143	
	Carbon Tetrachloride	20	19.7	ug/L	99			72	136	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			78	123	
	Bromochloromethane	20	21.8	ug/L	109			78	123	
	Chloroform	20	20.5	ug/L	103			79	124	
	1,1,1-Trichloroethane	20	20.0	ug/L	100			74	131	
	Methylcyclohexane	20	19.8	ug/L	99			72	132	
	Benzene	20	19.7	ug/L	99			79	120	
	1,2-Dichloroethane	20	21.3	ug/L	106			73	128	
	Trichloroethene	20	18.9	ug/L	95			79	123	
	1,2-Dichloropropane	20	19.8	ug/L	99			78	122	
	Bromodichloromethane	20	20.6	ug/L	103			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.5	ug/L	103			80	121	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			73	127	
	cis-1,3-Dichloropropene	20	21.2	ug/L	106			75	124	
	1,1,2-Trichloroethane	20	20.5	ug/L	103			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	20.3	ug/L	102			74	126	
	1,2-Dibromoethane	20	20.4	ug/L	102			77	121	
	Tetrachloroethene	20	20.0	ug/L	100			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	20.3	ug/L	102			79	121	
	m/p-Xylenes	40	41.2	ug/L	103			80	121	
	o-Xylene	20	20.1	ug/L	101			78	122	
	Styrene	20	20.9	ug/L	104			78	123	
	Bromoform	20	20.0	ug/L	100			66	130	
	Isopropylbenzene	20	21.0	ug/L	105			72	131	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/L	101			71	121	
	1,3-Dichlorobenzene	20	20.2	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	19.9	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	20.5	ug/L	103			80	119	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045315.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0318WBS01	1,2-Dibromo-3-Chloropropane	20	20.1	ug/L	101			62	128	
	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			69	130	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			69	129	

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0318WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: VX045314.D Lab Sample ID: VX0318WBL01

Date Analyzed: 03/18/2025 Time Analyzed: 10:53

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
VX0318WBS01	VX0318WBS01	VX045315.D	03/18/2025
BPOW6-7-20250312	Q1557-01	VX045324.D	03/18/2025
BPOW6-8-20250312	Q1557-02	VX045325.D	03/18/2025
BPOW6-10-20250312	Q1557-06	VX045326.D	03/18/2025
BPOW6-11-20250312	Q1557-07	VX045327.D	03/18/2025
DUP04-20250312	Q1557-08	VX045328.D	03/18/2025
BPOW6-9-20250312	Q1557-03	VX045335.D	03/18/2025
BPOW6-9-20250312MS	Q1557-04MS	VX045336.D	03/18/2025
BPOW6-9-20250312MSD	Q1557-05MSD	VX045337.D	03/18/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: VX045067.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_X BFB Injection Time: 01:03

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	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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
VSTDICC001	VSTDICC001	VX045068.D	02/28/2025	01:27
VSTDICC005	VSTDICC005	VX045069.D	02/28/2025	02:13
VSTDICC020	VSTDICC020	VX045070.D	02/28/2025	02:37
VSTDICCC050	VSTDICCC050	VX045071.D	02/28/2025	03:00
VSTDICC100	VSTDICC100	VX045072.D	02/28/2025	03:23
VSTDICC150	VSTDICC150	VX045073.D	02/28/2025	03:47

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: VX045311.D BFB Injection Date: 03/18/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:33

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	22.5
75	30.0 - 60.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.3
175	5.0 - 9.0% of mass 174	5.5 (7.9) 1
176	95.0 - 101.0% of mass 174	67.9 (96.5) 1
177	5.0 - 9.0% of mass 176	4.4 (6.6) 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	VX045312.D	03/18/2025	10:02
VX0318WBL01	VX0318WBL01	VX045314.D	03/18/2025	10:53
VX0318WBS01	VX0318WBS01	VX045315.D	03/18/2025	11:16
BPOW6-7-20250312	Q1557-01	VX045324.D	03/18/2025	14:51
BPOW6-8-20250312	Q1557-02	VX045325.D	03/18/2025	15:14
BPOW6-10-20250312	Q1557-06	VX045326.D	03/18/2025	15:38
BPOW6-11-20250312	Q1557-07	VX045327.D	03/18/2025	16:01
DUP04-20250312	Q1557-08	VX045328.D	03/18/2025	16:24
BPOW6-9-20250312	Q1557-03	VX045335.D	03/18/2025	19:07
BPOW6-9-20250312MS	Q1557-04MS	VX045336.D	03/18/2025	19:30
BPOW6-9-20250312MSD	Q1557-05MSD	VX045337.D	03/18/2025	19:53
VSTDCCC050EC	VSTDCCC050	VX045338.D	03/18/2025	20:16

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: VX045312.D Date Analyzed: 03/18/2025

Instrument ID: MSVOA_X Time Analyzed: 10:02

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	99818	5.54	175808	6.76	151375	10.05
UPPER LIMIT	199636	6.044	351616	7.257	302750	10.549
LOWER LIMIT	49909	5.044	87904	6.257	75687.5	9.549
EPA SAMPLE NO.						
BPOW6-7-20250312	65133	5.54	128210	6.76	121488	10.05
BPOW6-8-20250312	68534	5.54	133626	6.76	117226	10.06
BPOW6-9-20250312	65451	5.54	129872	6.76	120395	10.05
BPOW6-9-20250312MS	81809	5.54	150929	6.76	133572	10.05
BPOW6-9-20250312MSD	82090	5.55	149330	6.76	133072	10.05
BPOW6-10-20250312	66603	5.54	131278	6.76	120528	10.05
BPOW6-11-20250312	71499	5.55	141297	6.76	127382	10.06
DUP04-20250312	65075	5.55	128881	6.76	118997	10.05
VX0318WBL01	66984	5.54	130552	6.76	117786	10.05
VX0318WBS01	101216	5.55	179978	6.76	159085	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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: VX045312.D Date Analyzed: 03/18/2025

Instrument ID: MSVOA_X Time Analyzed: 10:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	71356	12.018				
UPPER LIMIT	142712	12.518				
LOWER LIMIT	35678	11.518				
EPA SAMPLE NO.						
BPOW6-7-20250312	49784	12.02				
BPOW6-8-20250312	43938	12.02				
BPOW6-9-20250312	50347	12.02				
BPOW6-9-20250312MS	61705	12.02				
BPOW6-9-20250312MSD	61175	12.02				
BPOW6-10-20250312	51968	12.02				
BPOW6-11-20250312	50993	12.02				
DUP04-20250312	48990	12.02				
VX0318WBL01	46358	12.02				
VX0318WBS01	70581	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

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

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:	VX0318WBL01	SDG No.:	Q1557
Lab Sample ID:	VX0318WBL01	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
VX045314.D	1		03/18/25 10:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	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	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	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	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	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	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	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	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	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	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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

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:	VX0318WBL01	SDG No.:	Q1557
Lab Sample ID:	VX0318WBL01	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
VX045314.D	1		03/18/25 10:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	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	0.89	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	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	52.3		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	67000	5.544				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	118000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	46400	12.018				

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

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:	VX0318WBL01	SDG No.:	Q1557
Lab Sample ID:	VX0318WBL01	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
VX045314.D	1		03/18/25 10:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

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:	VX0318WBS01	SDG No.:	Q1557
Lab Sample ID:	VX0318WBS01	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
VX045315.D	1		03/18/25 11:16	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	16.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	15.9		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.3		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	0.75	1.00	ug/L
67-64-1	Acetone	99.4		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	14.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	24.5		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	18.8		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.7		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	18.6		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	21.8		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	20.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.8		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.7		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.5		0.14	0.50	1.00	ug/L

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

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:	VX0318WBS01	SDG No.:	Q1557
Lab Sample ID:	VX0318WBS01	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
VX045315.D	1		03/18/25 11:16	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.4		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.2		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.5		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.4		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.2		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.9		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.0		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	21.0		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.9		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	101000	5.55				
540-36-3	1,4-Difluorobenzene	180000	6.757				
3114-55-4	Chlorobenzene-d5	159000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	70600	12.018				

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

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:	VX0318WBS01	SDG No.:	Q1557
Lab Sample ID:	VX0318WBS01	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
VX045315.D	1		03/18/25 11:16	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS	SDG No.:	Q1557
Lab Sample ID:	Q1557-04MS	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
VX045336.D	1		03/18/25 19:30	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	50.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	47.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	44.6		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	46.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	45.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	48.8		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	55.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	51.2		0.23	0.75	1.00	ug/L
67-64-1	Acetone	270		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	40.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	52.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	59.1		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	50.6		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	51.6		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.9		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.1		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	270		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	51.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.8		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	51.6		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	55.1		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	54.1		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	51.9		0.16	0.50	1.00	ug/L
71-43-2	Benzene	51.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	56.1		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	49.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	51.9		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.9		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.68	2.50	5.00	ug/L
108-88-3	Toluene	52.9		0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS	SDG No.:	Q1557
Lab Sample ID:	Q1557-04MS	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
VX045336.D	1		03/18/25 19:30	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	53.4		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	52.8		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	53.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	280		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	53.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	52.5		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	50.2		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	51.9		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	53.0		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	52.1		0.12	0.50	1.00	ug/L
100-42-5	Styrene	54.8		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	51.9		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	51.6		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.7		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.5		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.5		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	52.6		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.1		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	53.3		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.9		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	52.2		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.2		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	81800	5.544				
540-36-3	1,4-Difluorobenzene	151000	6.757				
3114-55-4	Chlorobenzene-d5	134000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	61700	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS	SDG No.:	Q1557
Lab Sample ID:	Q1557-04MS	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
VX045336.D	1		03/18/25 19:30	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD	SDG No.:	Q1557
Lab Sample ID:	Q1557-05MSD	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
VX045337.D	1		03/18/25 19:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	50.0		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	48.5		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	43.8		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	50.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	52.2		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	50.3		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	55.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	50.9		0.23	0.75	1.00	ug/L
67-64-1	Acetone	270		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	41.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	54.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	60.7		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	51.9		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	51.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	54.1		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.7		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	280		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	54.6		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.6		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	52.7		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	55.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	56.1		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	53.9		0.16	0.50	1.00	ug/L
71-43-2	Benzene	52.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	57.5		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	52.0		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	52.3		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	56.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	290		0.68	2.50	5.00	ug/L
108-88-3	Toluene	54.9		0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD	SDG No.:	Q1557
Lab Sample ID:	Q1557-05MSD	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
VX045337.D	1		03/18/25 19:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	55.6		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.0		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	55.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	300		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	57.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	55.5		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	50.7		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	53.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	54.9		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	54.2		0.12	0.50	1.00	ug/L
100-42-5	Styrene	57.4		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	56.3		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	54.1		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	54.2		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	53.1		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	54.2		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	56.0		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	55.3		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	54.0		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.2		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	48.6		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	82100	5.55				
540-36-3	1,4-Difluorobenzene	149000	6.757				
3114-55-4	Chlorobenzene-d5	133000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	61200	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD	SDG No.:	Q1557
Lab Sample ID:	Q1557-05MSD	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
VX045337.D	1		03/18/25 19:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

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

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.4
Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.7
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1
Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7
Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.5
Trichlorofluoromethane	0.978	1.061	1.050	1.050	0.982	0.948	1.012	4.7
1,1,2-Trichlorotrifluoroethane	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.4
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3
Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7
Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.6
Methyl tert-butyl Ether	1.955	1.913	2.127	2.083	2.132	2.158	2.061	5
Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.6
Methylene Chloride	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.8
trans-1,2-Dichloroethene	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.7
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5
Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.3
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2
Bromochloromethane	0.557	0.633	0.613	0.603	0.563	0.596	0.594	5
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8
Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.1
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7
1,2-Dichloropropane	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.7
Bromodichloromethane	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.2
4-Methyl-2-Pentanone	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.5
Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8

* 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.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

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

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.3
cis-1,3-Dichloropropene	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.8
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6
2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.1
Dibromochloromethane	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9
1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.7
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7
Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.1
m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.3
o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.5
Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.7
Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.9
Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.8
1,1,2,2-Tetrachloroethane	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.6
1,3-Dichlorobenzene	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.4
1,4-Dichlorobenzene	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.1
1,2-Dichlorobenzene	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.5
1,2-Dibromo-3-Chloropropane	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.6
1,2,4-Trichlorobenzene	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.3
1,2,3-Trichlorobenzene	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.2
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7

* 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.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: MSVOA_X Calibration Date/Time: 03/18/2025 10:02

Lab File ID: VX045312.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.603		-4.13	20
Chloromethane	0.770	0.700	0.1	-9.09	20
Vinyl Chloride	0.764	0.630		-17.54	20
Bromomethane	0.300	0.274		-8.67	20
Chloroethane	0.352	0.317		-9.94	20
Trichlorofluoromethane	1.012	0.936		-7.51	20
1,1,2-Trichlorotrifluoroethane	0.581	0.621		6.89	20
1,1-Dichloroethene	0.614	0.582		-5.21	20
Acetone	0.369	0.341		-7.59	20
Carbon Disulfide	1.636	1.304		-20.29	20
Methyl tert-butyl Ether	2.061	2.048		-0.63	20
Methyl Acetate	0.888	1.047		17.91	20
Methylene Chloride	0.731	0.679		-7.11	20
trans-1,2-Dichloroethene	0.607	0.576		-5.11	20
1,1-Dichloroethane	1.247	1.218	0.1	-2.33	20
Cyclohexane	1.082	1.015		-6.19	20
2-Butanone	0.555	0.537		-3.24	20
Carbon Tetrachloride	0.465	0.471		1.29	20
cis-1,2-Dichloroethene	0.749	0.729		-2.67	20
Bromochloromethane	0.594	0.601		1.18	20
Chloroform	1.239	1.221		-1.45	20
1,1,1-Trichloroethane	1.000	0.996		-0.4	20
Methylcyclohexane	0.549	0.568		3.46	20
Benzene	1.448	1.413		-2.42	20
1,2-Dichloroethane	0.521	0.545		4.61	20
Trichloroethene	0.340	0.329		-3.23	20
1,2-Dichloropropane	0.372	0.365		-1.88	20
Bromodichloromethane	0.516	0.537		4.07	20
4-Methyl-2-Pentanone	0.587	0.609		3.75	20
Toluene	0.849	0.858		1.06	20
t-1,3-Dichloropropene	0.431	0.479		11.14	20
cis-1,3-Dichloropropene	0.503	0.545		8.35	20
1,1,2-Trichloroethane	0.350	0.352		0.57	20
2-Hexanone	0.425	0.449		5.65	20
Dibromochloromethane	0.366	0.388		6.01	20
1,2-Dibromoethane	0.349	0.352		0.86	20
Tetrachloroethene	0.320	0.327		2.19	20
Chlorobenzene	1.058	1.075	0.3	1.61	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: MSVOA_X Calibration Date/Time: 03/18/2025 10:02

Lab File ID: VX045312.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	1.908		3.53	20
m/p-Xylenes	0.675	0.703		4.15	20
o-Xylene	0.681	0.698		2.5	20
Styrene	1.101	1.193		8.36	20
Bromoform	0.266	0.287	0.1	7.89	20
Isopropylbenzene	3.903	3.904		0.03	20
1,1,2,2-Tetrachloroethane	1.432	1.398	0.3	-2.37	20
1,3-Dichlorobenzene	1.643	1.686		2.62	20
1,4-Dichlorobenzene	1.662	1.658		-0.24	20
1,2-Dichlorobenzene	1.648	1.675		1.64	20
1,2-Dibromo-3-Chloropropane	0.279	0.294		5.38	20
1,2,4-Trichlorobenzene	0.938	1.026		9.38	20
1,2,3-Trichlorobenzene	0.990	1.049		5.96	20
1,2-Dichloroethane-d4	0.795	0.819		3.02	20
Dibromofluoromethane	0.334	0.351		5.09	20
Toluene-d8	1.212	1.212		0	20
4-Bromofluorobenzene	0.402	0.438		8.95	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: MSVOA_X Calibration Date/Time: 03/18/2025 20:16

Lab File ID: VX045338.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.613		-2.54	50
Chloromethane	0.770	0.675	0.1	-12.34	50
Vinyl Chloride	0.764	0.692		-9.42	50
Bromomethane	0.300	0.300		0	50
Chloroethane	0.352	0.317		-9.94	50
Trichlorofluoromethane	1.012	1.031		1.88	50
1,1,2-Trichlorotrifluoroethane	0.581	0.667		14.8	50
1,1-Dichloroethene	0.614	0.645		5.05	50
Acetone	0.369	0.378		2.44	50
Carbon Disulfide	1.636	1.376		-15.89	50
Methyl tert-butyl Ether	2.061	2.347		13.88	50
Methyl Acetate	0.888	1.198		34.91	50
Methylene Chloride	0.731	0.762		4.24	50
trans-1,2-Dichloroethene	0.607	0.652		7.41	50
1,1-Dichloroethane	1.247	1.406	0.1	12.75	50
Cyclohexane	1.082	1.119		3.42	50
2-Butanone	0.555	0.589		6.13	50
Carbon Tetrachloride	0.465	0.533		14.62	50
cis-1,2-Dichloroethene	0.749	0.827		10.41	50
Bromochloromethane	0.594	0.656		10.44	50
Chloroform	1.239	1.421		14.69	50
1,1,1-Trichloroethane	1.000	1.177		17.7	50
Methylcyclohexane	0.549	0.616		12.2	50
Benzene	1.448	1.576		8.84	50
1,2-Dichloroethane	0.521	0.625		19.96	50
Trichloroethene	0.340	0.369		8.53	50
1,2-Dichloropropane	0.372	0.418		12.37	50
Bromodichloromethane	0.516	0.602		16.67	50
4-Methyl-2-Pentanone	0.587	0.651		10.9	50
Toluene	0.849	0.954		12.37	50
t-1,3-Dichloropropene	0.431	0.523		21.35	50
cis-1,3-Dichloropropene	0.503	0.601		19.48	50
1,1,2-Trichloroethane	0.350	0.385		10	50
2-Hexanone	0.425	0.472		11.06	50
Dibromochloromethane	0.366	0.413		12.84	50
1,2-Dibromoethane	0.349	0.387		10.89	50
Tetrachloroethene	0.320	0.359		12.19	50
Chlorobenzene	1.058	1.176	0.3	11.15	50

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: MSVOA_X Calibration Date/Time: 03/18/2025 20:16

Lab File ID: VX045338.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	2.137		15.95	50
m/p-Xylenes	0.675	0.777		15.11	50
o-Xylene	0.681	0.758		11.31	50
Styrene	1.101	1.274		15.71	50
Bromoform	0.266	0.297	0.1	11.65	50
Isopropylbenzene	3.903	4.486		14.94	50
1,1,2,2-Tetrachloroethane	1.432	1.566	0.3	9.36	50
1,3-Dichlorobenzene	1.643	1.847		12.42	50
1,4-Dichlorobenzene	1.662	1.846		11.07	50
1,2-Dichlorobenzene	1.648	1.889		14.62	50
1,2-Dibromo-3-Chloropropane	0.279	0.331		18.64	50
1,2,4-Trichlorobenzene	0.938	1.113		18.66	50
1,2,3-Trichlorobenzene	0.990	1.174		18.59	50
1,2-Dichloroethane-d4	0.795	0.973		22.39	50
Dibromofluoromethane	0.334	0.396		18.56	50
Toluene-d8	1.212	1.395		15.1	50
4-Bromofluorobenzene	0.402	0.479		19.15	50

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

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

LAB CHRONICLE

OrderID:	Q1557	**OrderDate:**	3/12/2025 4:47:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	I41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1557-01	**BPOW6-7-20250312**	**Water**			**03/12/25**			**03/12/25**
			SVOC-SIMGroup1	8270-Modified		03/13/25	03/14/25	
Q1557-02	**BPOW6-8-20250312**	**Water**			**03/12/25**			**03/12/25**
			SVOC-SIMGroup1	8270-Modified		03/13/25	03/14/25	
Q1557-03	**BPOW6-9-20250312**	**Water**			**03/12/25**			**03/12/25**
			SVOC-SIMGroup1	8270-Modified		03/13/25	03/14/25	
Q1557-06	**BPOW6-10-20250312**	**Water**			**03/12/25**			**03/12/25**
			SVOC-SIMGroup1	8270-Modified		03/13/25	03/15/25	
Q1557-07	**BPOW6-11-20250312**	**Water**			**03/12/25**			**03/12/25**
			SVOC-SIMGroup1	8270-Modified		03/13/25	03/15/25	
Q1557-08	**DUP04-20250312**	**Water**			**03/12/25**			**03/12/25**
			SVOC-SIMGroup1	8270-Modified		03/13/25	03/15/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									
				0.000					
			Total Svoc :		**0.00**				
			Total Concentration:		**0.00**				

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-7-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-01	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
BN036609.D	1	03/13/25 12:40	03/14/25 16:11	PB167128

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	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		121%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2350	7.717				
1146-65-2	Naphthalene-d8	5640	10.509				
15067-26-2	Acenaphthene-d10	3370	14.355				
1517-22-2	Phenanthrene-d10	6640	17.099				
1719-03-5	Chrysene-d12	4660	21.295				
1520-96-3	Perylene-d12	3940	23.545				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-8-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-02	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
BN036617.D	1	03/13/25 12:40	03/14/25 21:43	PB167128

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	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1920	7.717				
1146-65-2	Naphthalene-d8	4720	10.509				
15067-26-2	Acenaphthene-d10	2790	14.356				
1517-22-2	Phenanthrene-d10	5750	17.099				
1719-03-5	Chrysene-d12	4290	21.295				
1520-96-3	Perylene-d12	3620	23.546				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-03	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
BN036610.D	1	03/13/25 12:40	03/14/25 16:48	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UM	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.67	*	58 - 132		167%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2140	7.717				
1146-65-2	Naphthalene-d8	4880	10.509				
15067-26-2	Acenaphthene-d10	3050	14.356				
1517-22-2	Phenanthrene-d10	5880	17.111				
1719-03-5	Chrysene-d12	4020	21.295				
1520-96-3	Perylene-d12	3270	23.549				

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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-10-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-06	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
BN036622.D	1	03/13/25 12:40	03/15/25 00:42	PB167128

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	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1780	7.724				
1146-65-2	Naphthalene-d8	4070	10.509				
15067-26-2	Acenaphthene-d10	2520	14.366				
1517-22-2	Phenanthrene-d10	5070	17.111				
1719-03-5	Chrysene-d12	3700	21.295				
1520-96-3	Perylene-d12	2910	23.549				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-11-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-07	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
BN036623.D	1	03/13/25 12:40	03/15/25 01:17	PB167128

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	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		94%	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	1970	7.717				
1146-65-2	Naphthalene-d8	4920	10.509				
15067-26-2	Acenaphthene-d10	2840	14.356				
1517-22-2	Phenanthrene-d10	5850	17.099				
1719-03-5	Chrysene-d12	4170	21.295				
1520-96-3	Perylene-d12	3340	23.543				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	DUP04-20250312	SDG No.:	Q1557
Lab Sample ID:	Q1557-08	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
BN036624.D	1	03/13/25 12:40	03/15/25 01:53	PB167128

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	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.717				
1146-65-2	Naphthalene-d8	5210	10.509				
15067-26-2	Acenaphthene-d10	2920	14.356				
1517-22-2	Phenanthrene-d10	6240	17.099				
1719-03-5	Chrysene-d12	4590	21.286				
1520-96-3	Perylene-d12	3900	23.543				

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

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

Surrogate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB167128BL	PB167128BL	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.25	62		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
PB167128BS	PB167128BS	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.42	106		58	132
Q1557-01	BPOW6-7-20250312	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.48	121		58	132
Q1557-02	BPOW6-8-20250312	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q1557-03	BPOW6-9-20250312	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.67	167	*	58	132
Q1557-04MS	BPOW6-9-20250312MS	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.65	163	*	58	132
Q1557-05MSD	BPOW6-9-20250312MSD	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.69	172	*	58	132
Q1557-06	BPOW6-10-20250312	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.61	151	*	58	132
Q1557-07	BPOW6-11-20250312	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.37	94		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q1557-08	DUP04-20250312	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.31	79		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.46	114		58	132

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1557-04MS		**Client Sample ID:** BPOW6-9-20250312MS						**DataFile:** BN036611.D			
1,4-Dioxane	0.4	0	0.22	ug/L	55	*			70	130	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1557-05MSD		**Client Sample ID:** BPOW6-9-20250312MSD						**DataFile:** BN036612.D			
1,4-Dioxane	0.4	0	0.23	ug/L	58	*	5		70	130	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1557

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036630.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167128BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167128BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: BN036634.D Lab Sample ID: PB167128BL

Instrument ID: BNA_N Date Extracted: 03/13/2025

Matrix: (soil/water) Water Date Analyzed: 03/15/2025

Level: (low/med) LOW Time Analyzed: 09:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167128BS	PB167128BS	BN036630.D	03/15/2025
BPOW6-7-20250312	Q1557-01	BN036609.D	03/14/2025
BPOW6-9-20250312	Q1557-03	BN036610.D	03/14/2025
BPOW6-9-20250312MS	Q1557-04MS	BN036611.D	03/14/2025
BPOW6-8-20250312	Q1557-02	BN036617.D	03/14/2025
BPOW6-9-20250312MSD	Q1557-05MSD	BN036612.D	03/14/2025
BPOW6-10-20250312	Q1557-06	BN036622.D	03/15/2025
BPOW6-11-20250312	Q1557-07	BN036623.D	03/15/2025
DUP04-20250312	Q1557-08	BN036624.D	03/15/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: BN036556.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
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	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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
SSTDICC0.1	SSTDICC0.1	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: BN036600.D DFTPP Injection Date: 03/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	65.5
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	55.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51.9
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	6.7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11 (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	BN036601.D	03/14/2025	10:09
BPOW6-7-20250312	Q1557-01	BN036609.D	03/14/2025	16:11
BPOW6-9-20250312	Q1557-03	BN036610.D	03/14/2025	16:48
BPOW6-9-20250312MS	Q1557-04MS	BN036611.D	03/14/2025	17:24
BPOW6-9-20250312MSD	Q1557-05MSD	BN036612.D	03/14/2025	18:00
SSTDCCC0.4EC	SSTDCCC0.4	BN036613.D	03/14/2025	18:36

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: BN036614.D DFTPP Injection Date: 03/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 19:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.5
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	57.8
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.2
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	25.4
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11 (18.6) 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	BN036615.D	03/14/2025	20:30
BPOW6-8-20250312	Q1557-02	BN036617.D	03/14/2025	21:43
BPOW6-10-20250312	Q1557-06	BN036622.D	03/15/2025	00:42
BPOW6-11-20250312	Q1557-07	BN036623.D	03/15/2025	01:17
DUP04-20250312	Q1557-08	BN036624.D	03/15/2025	01:53
PB167128BS	PB167128BS	BN036630.D	03/15/2025	05:28
SSTDCCC0.4EC	SSTDCCC0.4	BN036631.D	03/15/2025	06:04

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1557 SDG NO.: Q1557

Lab File ID: BN036632.D DFTPP Injection Date: 03/15/2025

Instrument ID: BNA_N DFTPP Injection Time: 06:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	55.9
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	52.7
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	6.9
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.3 (19.5) 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	BN036633.D	03/15/2025	08:35
PB167128BL	PB167128BL	BN036634.D	03/15/2025	09:11
SSTDCCC0.4EC	SSTDCCC0.4	BN036649.D	03/15/2025	18:12

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036601.D Time Analyzed: 10:09

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	2400	7.717	5723	10.51	3321	14.36
	UPPER LIMIT	4800	8.217	11446	11.009	6642	14.855
	LOWER LIMIT	1200	7.217	2861.5	10.009	1660.5	13.855
	EPA SAMPLE NO.						
01	BPOW6-7-20250312	2352	7.72	5638	10.51	3373	14.36
02	BPOW6-9-20250312	2138	7.72	4877	10.51	3049	14.36
03	BPOW6-9-20250312MS	2246	7.72	5352	10.51	3243	14.36
04	BPOW6-9-20250312MSD	2513	7.72	5928	10.51	3540	14.36

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036601.D Time Analyzed: 10:09

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	6547	17.09	4700	21.29	3986	23.546
	UPPER LIMIT	13094	17.59	9400	21.79	7972	24.046
	LOWER LIMIT	3273.5	16.59	2350	20.79	1993	23.046
	EPA SAMPLE NO.						
01	BPOW6-7-20250312	6644	17.10	4660	21.30	3938	23.55
02	BPOW6-9-20250312	5883	17.11	4022	21.30	3268	23.55
03	BPOW6-9-20250312MS	6301	17.10	4672	21.30	3903	23.54
04	BPOW6-9-20250312MSD	7131	17.10	5437	21.30	4602	23.55

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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036615.D Time Analyzed: 20:30

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	2093	7.717	5069	10.51	2917	14.36
	UPPER LIMIT	4186	8.217	10138	11.009	5834	14.855
	LOWER LIMIT	1046.5	7.217	2534.5	10.009	1458.5	13.855
	EPA SAMPLE NO.						
01	PB167128BS	2536	7.72	5899	10.51	2985	14.36
02	BPOW6-10-20250312	1781	7.72	4065	10.51	2518	14.37
03	BPOW6-11-20250312	1969	7.72	4915	10.51	2840	14.36
04	DUP04-20250312	2158	7.72	5209	10.51	2915	14.36
05	BPOW6-8-20250312	1924	7.72	4715	10.51	2788	14.36

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036615.D Time Analyzed: 20:30

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	6068	17.09	4261	21.29	3574	23.548
	UPPER LIMIT	12136	17.59	8522	21.79	7148	24.048
	LOWER LIMIT	3034	16.59	2130.5	20.79	1787	23.048
	EPA SAMPLE NO.						
01	PB167128BS	5084	17.10	2789	21.30	2522	23.55
02	BPOW6-10-20250312	5072	17.11	3698	21.30	2905	23.55
03	BPOW6-11-20250312	5846	17.10	4173	21.30	3340	23.54
04	DUP04-20250312	6243	17.10	4594	21.29	3899	23.54
05	BPOW6-8-20250312	5747	17.10	4285	21.30	3617	23.55

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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/15/2025

Lab File ID: BN036633.D Time Analyzed: 08:35

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	2056	7.717	5167	10.51	3028	14.36
	UPPER LIMIT	4112	8.217	10334	11.009	6056	14.856
	LOWER LIMIT	1028	7.217	2583.5	10.009	1514	13.856
	EPA SAMPLE NO.						
01	PB167128BL	2323	7.72	4860	10.52	2639	14.37

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG NO.: Q1557

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/15/2025

Lab File ID: BN036633.D Time Analyzed: 08:35

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	5852	17.09	3964	21.29	3322	23.543
	UPPER LIMIT	11704	17.59	7928	21.79	6644	24.043
	LOWER LIMIT	2926	16.59	1982	20.79	1661	23.043
	EPA SAMPLE NO.						
01	PB167128BL	4474	17.12	2905	21.30	2592	23.56

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

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

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:	PB167128BL	SDG No.:	Q1557
Lab Sample ID:	PB167128BL	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
BN036634.D	1	03/13/25 12:40	03/15/25 09:11	PB167128

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	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		62%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.717				
1146-65-2	Naphthalene-d8	4860	10.519				
15067-26-2	Acenaphthene-d10	2640	14.366				
1517-22-2	Phenanthrene-d10	4470	17.124				
1719-03-5	Chrysene-d12	2910	21.304				
1520-96-3	Perylene-d12	2590	23.557				

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

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

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:	PB167128BS	SDG No.:	Q1557
Lab Sample ID:	PB167128BS	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
BN036630.D	1	03/13/25 12:40	03/15/25 05:28	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2540	7.717				
1146-65-2	Naphthalene-d8	5900	10.509				
15067-26-2	Acenaphthene-d10	2990	14.356				
1517-22-2	Phenanthrene-d10	5080	17.099				
1719-03-5	Chrysene-d12	2790	21.295				
1520-96-3	Perylene-d12	2520	23.546				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS	SDG No.:	Q1557
Lab Sample ID:	Q1557-04MS	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
BN036611.D	1	03/13/25 12:40	03/14/25 17:24	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22		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	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	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	2250	7.717				
1146-65-2	Naphthalene-d8	5350	10.509				
15067-26-2	Acenaphthene-d10	3240	14.356				
1517-22-2	Phenanthrene-d10	6300	17.099				
1719-03-5	Chrysene-d12	4670	21.295				
1520-96-3	Perylene-d12	3900	23.543				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD	SDG No.:	Q1557
Lab Sample ID:	Q1557-05MSD	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
BN036612.D	1	03/13/25 12:40	03/14/25 18:00	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.23		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.69	*	58 - 132		172%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2510	7.717				
1146-65-2	Naphthalene-d8	5930	10.509				
15067-26-2	Acenaphthene-d10	3540	14.355				
1517-22-2	Phenanthrene-d10	7130	17.099				
1719-03-5	Chrysene-d12	5440	21.295				
1520-96-3	Perylene-d12	4600	23.545				

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

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)		n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4)	S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5)	S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)		bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)		Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)		Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11)	SURR	2-Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)		2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15)	S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)		Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)		Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)		Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.057	0.077	0.075	0.088	0.110	0.111	0.086	24.66
21)		4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)		Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)		Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)		Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)		Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)		Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27)	SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)		Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31)	S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)		Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)		Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)		Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M

36)		Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)		Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)		Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39)	C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)		Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)		Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 10:09

Lab File ID: BN036601.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.108		8.1	20.0
2-Fluorophenol	0.932	0.929		-0.3	20.0
Phenol-d6	1.152	1.129		-2.0	20.0
Nitrobenzene-d5	0.435	0.423		-2.8	20.0
2-Fluorobiphenyl	2.327	2.416		3.8	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Terphenyl-d14	0.958	0.974		1.7	20.0
1,4-Dioxane	0.444	0.525		18.2	20.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 18:36

Lab File ID: BN036613.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.591		-0.7	50.0
Fluoranthene-d10	1.025	1.135		10.7	50.0
2-Fluorophenol	0.932	0.942		1.1	50.0
Phenol-d6	1.152	1.125		-2.3	50.0
Nitrobenzene-d5	0.435	0.410		-5.7	50.0
2-Fluorobiphenyl	2.327	2.340		0.6	50.0
2,4,6-Tribromophenol	0.182	0.170		-6.6	50.0
Terphenyl-d14	0.958	0.995		3.9	50.0
1,4-Dioxane	0.444	0.493		11.0	50.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 20:30

Lab File ID: BN036615.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.605		1.7	20.0
Fluoranthene-d10	1.025	1.072		4.6	20.0
2-Fluorophenol	0.932	0.927		-0.5	20.0
Phenol-d6	1.152	1.120		-2.8	20.0
Nitrobenzene-d5	0.435	0.416		-4.4	20.0
2-Fluorobiphenyl	2.327	2.425		4.2	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Terphenyl-d14	0.958	0.981		2.4	20.0
1,4-Dioxane	0.444	0.512		15.3	20.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: BNA_N Calibration Date/Time: 03/15/2025 06:04

Lab File ID: BN036631.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.591		-0.7	50.0
Fluoranthene-d10	1.025	1.082		5.6	50.0
2-Fluorophenol	0.932	0.955		2.5	50.0
Phenol-d6	1.152	1.150		-0.2	50.0
Nitrobenzene-d5	0.435	0.411		-5.5	50.0
2-Fluorobiphenyl	2.327	2.352		1.1	50.0
2,4,6-Tribromophenol	0.182	0.181		-0.5	50.0
Terphenyl-d14	0.958	1.041		8.7	50.0
1,4-Dioxane	0.444	0.499		12.4	50.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: BNA_N Calibration Date/Time: 03/15/2025 08:35

Lab File ID: BN036633.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.597		0.3	20.0
Fluoranthene-d10	1.025	1.103		7.6	20.0
2-Fluorophenol	0.932	0.969		4.0	20.0
Phenol-d6	1.152	1.163		1.0	20.0
Nitrobenzene-d5	0.435	0.413		-5.1	20.0
2-Fluorobiphenyl	2.327	2.306		-0.9	20.0
2,4,6-Tribromophenol	0.182	0.181		-0.5	20.0
Terphenyl-d14	0.958	1.011		5.5	20.0
1,4-Dioxane	0.444	0.508		14.4	20.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1557 SAS No.: Q1557 SDG No.: Q1557

Instrument ID: BNA_N Calibration Date/Time: 03/15/2025 18:12

Lab File ID: BN036649.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.607		2.0	50.0
Fluoranthene-d10	1.025	1.145		11.7	50.0
2-Fluorophenol	0.932	0.966		3.6	50.0
Phenol-d6	1.152	1.189		3.2	50.0
Nitrobenzene-d5	0.435	0.423		-2.8	50.0
2-Fluorobiphenyl	2.327	2.416		3.8	50.0
2,4,6-Tribromophenol	0.182	0.195		7.1	50.0
Terphenyl-d14	0.958	0.993		3.7	50.0
1,4-Dioxane	0.444	0.476		7.2	50.0

All other compounds must meet a minimum RRF of 0.010.