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LAB CHRONICLE

OrderID:	Q1531	**OrderDate:**	3/7/2025 2:28:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1531-01	**RE122D2-20250305**	**Water**			**03/05/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-02	**RE122D3-20250305**	**Water**			**03/05/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-03	**RE122D1-20250305**	**Water**			**03/05/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-04	**RE126D1-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-05	**RE126D2-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-06	**DUP01-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-07	**RE103D1-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-07DL	**RE103D1-20250306DL**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-10	**RE103D3-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-11	**RE103D2-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-12	**RE108D2-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	

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LAB CHRONICLE

Q1531-13	**RE108D1-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-14	**RE105D1-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-15	**RE105D2-20250306**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-15DL	**RE105D2-20250306DL**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-16	**RE125D1-20250307**	**Water**			**03/07/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-16DL	**RE125D1-20250307DL**	**Water**			**03/07/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-17	**RE125D2-20250307**	**Water**			**03/07/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-17DL	**RE125D2-20250307DL**	**Water**			**03/07/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-18	**FB01**	**Water**			**03/06/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-19	**RE104D2-20250307**	**Water**			**03/07/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-20	**RE104D3-20250307**	**Water**			**03/07/25**			**03/07/25**
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE122D2-20250305									
Q1531-01	RE122D2-20250305	WATER	1,4-Dioxane	4.500		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.50**			
			Total Concentration:			**4.50**			
Client ID : RE122D1-20250305									
Q1531-03	RE122D1-20250305	WATER	1,4-Dioxane	4.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.10**			
			Total Concentration:			**4.10**			
Client ID : RE126D1-20250306									
Q1531-04	RE126D1-20250306	WATER	1,4-Dioxane	3.400		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.40**			
			Total Concentration:			**3.40**			
Client ID : RE126D2-20250306									
Q1531-05	RE126D2-20250306	WATER	1,4-Dioxane	4.300		0.07	0.22	0.22	ug/L
			Total Svoc :			**4.30**			
			Total Concentration:			**4.30**			
Client ID : DUP01-20250306									
Q1531-06	DUP01-20250306	WATER	1,4-Dioxane	3.900		0.07	0.21	0.21	ug/L
			Total Svoc :			**3.90**			
			Total Concentration:			**3.90**			
Client ID : RE103D1-20250306									
Q1531-07	RE103D1-20250306	WATER	1,4-Dioxane	6.500	EM	0.07	0.21	0.21	ug/L
			Total Svoc :			**6.50**			
			Total Concentration:			**6.50**			
Client ID : RE103D1-20250306DL									
Q1531-07DL	RE103D1-20250306DL	WATER	1,4-Dioxane	6.100	D	0.14	0.42	0.42	ug/L
			Total Svoc :			**6.10**			
			Total Concentration:			**6.10**			
Client ID : RE103D2-20250306									
Q1531-11	RE103D2-20250306	WATER	1,4-Dioxane	0.480		0.07	0.21	0.21	ug/L
			Total Svoc :			**0.48**			
			Total Concentration:			**0.48**			
Client ID : RE108D2-20250306									
Q1531-12	RE108D2-20250306	WATER	1,4-Dioxane	2.700		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.70**			

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Hit Summary Sheet
SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**2.70**			
Client ID :	**RE108D1-20250306**								
Q1531-13	RE108D1-20250306	WATER	1,4-Dioxane	3.300		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.30**			
			Total Concentration:			**3.30**			
Client ID :	**RE105D1-20250306**								
Q1531-14	RE105D1-20250306	WATER	1,4-Dioxane	4.800		0.07	0.21	0.21	ug/L
			Total Svoc :			**4.80**			
			Total Concentration:			**4.80**			
Client ID :	**RE105D2-20250306**								
Q1531-15	RE105D2-20250306	WATER	1,4-Dioxane	5.600	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**5.60**			
			Total Concentration:			**5.60**			
Client ID :	**RE105D2-20250306DL**								
Q1531-15DL	RE105D2-20250306DL	WATER	1,4-Dioxane	6.000	D	0.14	0.4	0.4	ug/L
			Total Svoc :			**6.00**			
			Total Concentration:			**6.00**			
Client ID :	**RE125D1-20250307**								
Q1531-16	RE125D1-20250307	WATER	1,4-Dioxane	6.200	E	0.07	0.21	0.21	ug/L
			Total Svoc :			**6.20**			
			Total Concentration:			**6.20**			
Client ID :	**RE125D1-20250307DL**								
Q1531-16DL	RE125D1-20250307DL	WATER	1,4-Dioxane	6.500	D	0.15	0.42	0.42	ug/L
			Total Svoc :			**6.50**			
			Total Concentration:			**6.50**			
Client ID :	**RE125D2-20250307**								
Q1531-17	RE125D2-20250307	WATER	1,4-Dioxane	9.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**9.20**			
			Total Concentration:			**9.20**			
Client ID :	**RE125D2-20250307DL**								
Q1531-17DL	RE125D2-20250307DL	WATER	1,4-Dioxane	8.400	D	0.35	1	1	ug/L
			Total Svoc :			**8.40**			
			Total Concentration:			**8.40**			
Client ID :	**RE104D2-20250307**								
Q1531-19	RE104D2-20250307	WATER	1,4-Dioxane	2.300		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.30**			

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Hit Summary Sheet
SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
		Total Concentration:	**2.30**					

SAMPLE DATA

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE122D2-20250305	SDG No.:	Q1531
Lab Sample ID:	Q1531-01	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
BN036576.D	1	03/10/25 11:35	03/11/25 11:20	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.50		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	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3300	7.724				
1146-65-2	Naphthalene-d8	7380	10.509				
15067-26-2	Acenaphthene-d10	4300	14.366				
1517-22-2	Phenanthrene-d10	8600	17.111				
1719-03-5	Chrysene-d12	6410	21.295				
1520-96-3	Perylene-d12	5770	23.548				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE122D3-20250305	SDG No.:	Q1531
Lab Sample ID:	Q1531-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036577.D	1	03/10/25 11:35	03/11/25 11:56	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.724				
1146-65-2	Naphthalene-d8	4660	10.509				
15067-26-2	Acenaphthene-d10	2590	14.366				
1517-22-2	Phenanthrene-d10	4760	17.111				
1719-03-5	Chrysene-d12	3530	21.304				
1520-96-3	Perylene-d12	3330	23.554				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE122D1-20250305	SDG No.:	Q1531
Lab Sample ID:	Q1531-03	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
BN036566.D	1	03/10/25 11:35	03/10/25 17:50	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1980	7.724				
1146-65-2	Naphthalene-d8	4160	10.52				
15067-26-2	Acenaphthene-d10	2570	14.366				
1517-22-2	Phenanthrene-d10	5030	17.111				
1719-03-5	Chrysene-d12	3470	21.304				
1520-96-3	Perylene-d12	2980	23.56				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE126D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-04	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
BN036567.D	1	03/10/25 11:35	03/10/25 18:26	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1870	7.724				
1146-65-2	Naphthalene-d8	4080	10.519				
15067-26-2	Acenaphthene-d10	2450	14.366				
1517-22-2	Phenanthrene-d10	5130	17.111				
1719-03-5	Chrysene-d12	3750	21.304				
1520-96-3	Perylene-d12	3090	23.557				

U = Not Detected
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE126D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	920 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
BN036568.D	1	03/10/25 11:35	03/10/25 19:02	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.30		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	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		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2060	7.725				
1146-65-2	Naphthalene-d8	4560	10.52				
15067-26-2	Acenaphthene-d10	2750	14.366				
1517-22-2	Phenanthrene-d10	5630	17.111				
1719-03-5	Chrysene-d12	3900	21.304				
1520-96-3	Perylene-d12	3040	23.557				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	DUP01-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036569.D	1	03/10/25 11:35	03/10/25 19:38	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.60	*	58 - 132		149%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2290	7.724				
1146-65-2	Naphthalene-d8	4880	10.519				
15067-26-2	Acenaphthene-d10	2910	14.366				
1517-22-2	Phenanthrene-d10	5570	17.111				
1719-03-5	Chrysene-d12	3910	21.304				
1520-96-3	Perylene-d12	3420	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:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036578.D	1	03/10/25 11:35	03/11/25 12:33	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.50	EM	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	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	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	1.03	*	58 - 132		257%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2060	7.724				
1146-65-2	Naphthalene-d8	4840	10.509				
15067-26-2	Acenaphthene-d10	2890	14.366				
1517-22-2	Phenanthrene-d10	5690	17.111				
1719-03-5	Chrysene-d12	3810	21.295				
1520-96-3	Perylene-d12	2890	23.554				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-07DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036581.D	2	03/10/25 11:35	03/11/25 14:57	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.10	D	0.14	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.91	*	58 - 132		228%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2260	7.724				
1146-65-2	Naphthalene-d8	5270	10.52				
15067-26-2	Acenaphthene-d10	3220	14.366				
1517-22-2	Phenanthrene-d10	6430	17.111				
1719-03-5	Chrysene-d12	4560	21.295				
1520-96-3	Perylene-d12	3610	23.554				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D3-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036593.D	1	03/10/25 11:35	03/12/25 10:26	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.724				
1146-65-2	Naphthalene-d8	4460	10.509				
15067-26-2	Acenaphthene-d10	2880	14.356				
1517-22-2	Phenanthrene-d10	5110	17.111				
1719-03-5	Chrysene-d12	3420	21.295				
1520-96-3	Perylene-d12	2970	23.551				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-11	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036582.D	1	03/10/25 11:35	03/11/25 15:32	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.48		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.82	*	58 - 132		206%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.724				
1146-65-2	Naphthalene-d8	4920	10.509				
15067-26-2	Acenaphthene-d10	2930	14.366				
1517-22-2	Phenanthrene-d10	5750	17.111				
1719-03-5	Chrysene-d12	3770	21.295				
1520-96-3	Perylene-d12	3250	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE108D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036583.D	1	03/10/25 11:35	03/11/25 16:09	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1900	7.724				
1146-65-2	Naphthalene-d8	4280	10.509				
15067-26-2	Acenaphthene-d10	2640	14.366				
1517-22-2	Phenanthrene-d10	5580	17.111				
1719-03-5	Chrysene-d12	3930	21.295				
1520-96-3	Perylene-d12	3180	23.554				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE108D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-13	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
BN036570.D	1	03/10/25 11:35	03/10/25 20:14	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2190	7.724				
1146-65-2	Naphthalene-d8	4780	10.519				
15067-26-2	Acenaphthene-d10	2790	14.366				
1517-22-2	Phenanthrene-d10	5260	17.111				
1719-03-5	Chrysene-d12	3740	21.304				
1520-96-3	Perylene-d12	3210	23.554				

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

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE105D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036571.D	1	03/10/25 11:35	03/10/25 20:50	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.80		0.070	0.21	0.21	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		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030	7.724				
1146-65-2	Naphthalene-d8	4600	10.52				
15067-26-2	Acenaphthene-d10	2830	14.366				
1517-22-2	Phenanthrene-d10	5730	17.111				
1719-03-5	Chrysene-d12	3950	21.295				
1520-96-3	Perylene-d12	3260	23.554				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE105D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-15	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
BN036584.D	1	03/10/25 11:35	03/11/25 16:44	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.60	E	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	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.79	*	58 - 132		197%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1950	7.724				
1146-65-2	Naphthalene-d8	4550	10.509				
15067-26-2	Acenaphthene-d10	2780	14.366				
1517-22-2	Phenanthrene-d10	5690	17.111				
1719-03-5	Chrysene-d12	3980	21.295				
1520-96-3	Perylene-d12	3120	23.554				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE105D2-20250306DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-15DL	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
BN036596.D	2	03/10/25 11:35	03/12/25 12:16	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.00	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		120%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.82	*	58 - 132		206%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.724				
1146-65-2	Naphthalene-d8	4590	10.509				
15067-26-2	Acenaphthene-d10	2770	14.366				
1517-22-2	Phenanthrene-d10	5530	17.111				
1719-03-5	Chrysene-d12	3880	21.295				
1520-96-3	Perylene-d12	3090	23.554				

U = Not Detected
LOQ = Limit of Quantitation
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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:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D1-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-16	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036585.D	1	03/10/25 11:35	03/11/25 17:21	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.20	E	0.070	0.21	0.21	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		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2170	7.724				
1146-65-2	Naphthalene-d8	4990	10.509				
15067-26-2	Acenaphthene-d10	2870	14.355				
1517-22-2	Phenanthrene-d10	5520	17.111				
1719-03-5	Chrysene-d12	3920	21.295				
1520-96-3	Perylene-d12	3020	23.554				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D1-20250307DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-16DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036597.D	2	03/10/25 11:35	03/12/25 12:52	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.50	D	0.15	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1990	7.724				
1146-65-2	Naphthalene-d8	4780	10.509				
15067-26-2	Acenaphthene-d10	2900	14.355				
1517-22-2	Phenanthrene-d10	5980	17.111				
1719-03-5	Chrysene-d12	4270	21.295				
1520-96-3	Perylene-d12	3190	23.548				

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A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D2-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-17	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
BN036586.D	1	03/10/25 11:35	03/11/25 17:57	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.20	E	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	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2080	7.724				
1146-65-2	Naphthalene-d8	4660	10.509				
15067-26-2	Acenaphthene-d10	2830	14.366				
1517-22-2	Phenanthrene-d10	5540	17.111				
1719-03-5	Chrysene-d12	3780	21.304				
1520-96-3	Perylene-d12	3020	23.554				

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A = Aldol-Condensation Reaction Products

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D2-20250307DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-17DL	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
BN036598.D	5	03/10/25 11:35	03/12/25 13:29	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.40	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		64%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2300	7.724				
1146-65-2	Naphthalene-d8	5150	10.519				
15067-26-2	Acenaphthene-d10	3130	14.366				
1517-22-2	Phenanthrene-d10	5910	17.111				
1719-03-5	Chrysene-d12	4000	21.295				
1520-96-3	Perylene-d12	3320	23.551				

U = Not Detected
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	FB01	SDG No.:	Q1531
Lab Sample ID:	Q1531-18	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
BN036587.D	1	03/10/25 11:35	03/11/25 18:33	PB167057

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		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1900	7.724				
1146-65-2	Naphthalene-d8	4320	10.519				
15067-26-2	Acenaphthene-d10	2630	14.366				
1517-22-2	Phenanthrene-d10	5340	17.111				
1719-03-5	Chrysene-d12	4000	21.295				
1520-96-3	Perylene-d12	3150	23.557				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE104D2-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-19	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
BN036594.D	1	03/10/25 11:35	03/12/25 11:02	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.30		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	0.46		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		136%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1940	7.724				
1146-65-2	Naphthalene-d8	4250	10.509				
15067-26-2	Acenaphthene-d10	2600	14.366				
1517-22-2	Phenanthrene-d10	5270	17.111				
1719-03-5	Chrysene-d12	3680	21.295				
1520-96-3	Perylene-d12	3140	23.551				

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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:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE104D3-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-20	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036595.D	1	03/10/25 11:35	03/12/25 11:38	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2340	7.724				
1146-65-2	Naphthalene-d8	5170	10.509				
15067-26-2	Acenaphthene-d10	3130	14.366				
1517-22-2	Phenanthrene-d10	6560	17.111				
1719-03-5	Chrysene-d12	4900	21.295				
1520-96-3	Perylene-d12	4320	23.552				

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QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB167057BL	PB167057BL	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.23	58		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
PB167057BS	PB167057BS	2-Methylnaphthalene-d10	0.4	0.53	132		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1531-01	RE122D2-20250305	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.53	131		58	132
Q1531-02	RE122D3-20250305	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	74		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.52	129		58	132
Q1531-03	RE122D1-20250305	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
Q1531-04	RE126D1-20250306	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1531-05	RE126D2-20250306	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
Q1531-06	DUP01-20250306	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.60	149	*	58	132
Q1531-07	RE103D1-20250306	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	1.03	257	*	58	132
Q1531-07DL	RE103D1-20250306DL	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.91	228	*	58	132
Q1531-08MS	RE103D1-20250306MS	2-Methylnaphthalene-d10	0.4	0.39	97		30	150

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
Q1531-08MS	RE103D1-20250306MS	Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.48	121		58	132
Q1531-09MSD	RE103D1-20250306MSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q1531-10	RE103D3-20250306	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
Q1531-11	RE103D2-20250306	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.82	206	*	58	132
Q1531-12	RE108D2-20250306	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
Q1531-13	RE108D1-20250306	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1531-14	RE105D1-20250306	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
Q1531-15	RE105D2-20250306	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.79	197	*	58	132
Q1531-15DL	RE105D2-20250306DL	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.48	120		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.82	206	*	58	132
Q1531-16	RE125D1-20250307	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1531-16DL	RE125D1-20250307DL	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150

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Surrogate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1531-16DL	RE125D1-20250307DL	Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1531-17	RE125D2-20250307	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q1531-17DL	RE125D2-20250307DL	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.26	64		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1531-18	FB01	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q1531-19	RE104D2-20250307	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.54	136	*	58	132
Q1531-20	RE104D3-20250307	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.47	116		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.50	125		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1531

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: Q1531-08MS		**Client Sample ID:** RE103D1-20250306MS						**DataFile:** BN036579.D			
1,4-Dioxane	0.41	6.50	7.20	ug/L	171	*			70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1531

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: Q1531-09MSD		**Client Sample ID:** RE103D1-20250306MSD						**DataFile:** BN036580.D			
1,4-Dioxane	0.41	6.50	6.90	ug/L	98		54	*	70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036588.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167057BS	1,4-Dioxane	0.4	0.40	ug/L	100				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167057BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

Lab File ID: BN036565.D Lab Sample ID: PB167057BL

Instrument ID: BNA_N Date Extracted: 03/10/2025

Matrix: (soil/water) Water Date Analyzed: 03/10/2025

Level: (low/med) LOW Time Analyzed: 17:14

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE122D1-20250305	Q1531-03	BN036566.D	03/10/2025
RE126D1-20250306	Q1531-04	BN036567.D	03/10/2025
RE126D2-20250306	Q1531-05	BN036568.D	03/10/2025
DUP01-20250306	Q1531-06	BN036569.D	03/10/2025
RE108D1-20250306	Q1531-13	BN036570.D	03/10/2025
RE105D1-20250306	Q1531-14	BN036571.D	03/10/2025
RE122D2-20250305	Q1531-01	BN036576.D	03/11/2025
RE122D3-20250305	Q1531-02	BN036577.D	03/11/2025
RE103D1-20250306	Q1531-07	BN036578.D	03/11/2025
RE103D1-20250306MS	Q1531-08MS	BN036579.D	03/11/2025
RE103D1-20250306MSD	Q1531-09MSD	BN036580.D	03/11/2025
RE103D2-20250306	Q1531-11	BN036582.D	03/11/2025
PB167057BS	PB167057BS	BN036588.D	03/11/2025
RE108D2-20250306	Q1531-12	BN036583.D	03/11/2025
RE105D2-20250306	Q1531-15	BN036584.D	03/11/2025
RE125D1-20250307	Q1531-16	BN036585.D	03/11/2025
RE125D2-20250307	Q1531-17	BN036586.D	03/11/2025
FB01	Q1531-18	BN036587.D	03/11/2025
RE103D3-20250306	Q1531-10	BN036593.D	03/12/2025
RE104D2-20250307	Q1531-19	BN036594.D	03/12/2025
RE104D3-20250307	Q1531-20	BN036595.D	03/12/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1531 SDG NO.: Q1531

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
PB167057BL	PB167057BL	BN036565.D	03/10/2025	17:14
RE122D1-20250305	Q1531-03	BN036566.D	03/10/2025	17:50
RE126D1-20250306	Q1531-04	BN036567.D	03/10/2025	18:26
RE126D2-20250306	Q1531-05	BN036568.D	03/10/2025	19:02
DUP01-20250306	Q1531-06	BN036569.D	03/10/2025	19:38
RE108D1-20250306	Q1531-13	BN036570.D	03/10/2025	20:14
RE105D1-20250306	Q1531-14	BN036571.D	03/10/2025	20:50
SSTDCCC0.4EC	SSTDCCC0.4	BN036572.D	03/10/2025	21:26

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1531 SDG NO.: Q1531

Lab File ID: BN036573.D DFTPP Injection Date: 03/11/2025

Instrument ID: BNA_N DFTPP Injection Time: 08:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	53
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	10.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.4 (18.4) 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	BN036574.D	03/11/2025	10:08
RE122D2-20250305	Q1531-01	BN036576.D	03/11/2025	11:20
RE122D3-20250305	Q1531-02	BN036577.D	03/11/2025	11:56
RE103D1-20250306	Q1531-07	BN036578.D	03/11/2025	12:33
RE103D1-20250306MS	Q1531-08MS	BN036579.D	03/11/2025	13:45
RE103D1-20250306MSD	Q1531-09MSD	BN036580.D	03/11/2025	14:21
RE103D1-20250306DL	Q1531-07DL	BN036581.D	03/11/2025	14:57
RE103D2-20250306	Q1531-11	BN036582.D	03/11/2025	15:32
RE108D2-20250306	Q1531-12	BN036583.D	03/11/2025	16:09
RE105D2-20250306	Q1531-15	BN036584.D	03/11/2025	16:44
RE125D1-20250307	Q1531-16	BN036585.D	03/11/2025	17:21
RE125D2-20250307	Q1531-17	BN036586.D	03/11/2025	17:57
FB01	Q1531-18	BN036587.D	03/11/2025	18:33
PB167057BS	PB167057BS	BN036588.D	03/11/2025	19:09
SSTDCCC0.4EC	SSTDCCC0.4	BN036589.D	03/11/2025	19:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1531 SDG NO.: Q1531

Lab File ID: BN036590.D DFTPP Injection Date: 03/12/2025

Instrument ID: BNA_N DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	1 (1.8) 1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	53.6
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	7.2
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (20.4) 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	BN036591.D	03/12/2025	09:14
RE103D3-20250306	Q1531-10	BN036593.D	03/12/2025	10:26
RE104D2-20250307	Q1531-19	BN036594.D	03/12/2025	11:02
RE104D3-20250307	Q1531-20	BN036595.D	03/12/2025	11:38
RE105D2-20250306DL	Q1531-15DL	BN036596.D	03/12/2025	12:16
RE125D1-20250307DL	Q1531-16DL	BN036597.D	03/12/2025	12:52
RE125D2-20250307DL	Q1531-17DL	BN036598.D	03/12/2025	13:29
SSTDCCC0.4EC	SSTDCCC0.4	BN036599.D	03/12/2025	14:39

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 03/10/2025

Lab File ID: BN036559.D Time Analyzed: 12:54

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	2207	7.724	5091	10.51	3026	14.37
	UPPER LIMIT	4414	8.224	10182	11.009	6052	14.866
	LOWER LIMIT	1103.5	7.224	2545.5	10.009	1513	13.866
	EPA SAMPLE NO.						
01	PB167057BL	2263	7.72	4575	10.53	2489	14.38
02	RE122D1-20250305	1983	7.72	4161	10.52	2568	14.37
03	RE126D1-20250306	1865	7.72	4078	10.52	2447	14.37
04	RE126D2-20250306	2064	7.73	4561	10.52	2745	14.37
05	DUP01-20250306	2291	7.72	4880	10.52	2910	14.37
06	RE108D1-20250306	2186	7.72	4775	10.52	2786	14.37
07	RE105D1-20250306	2032	7.72	4598	10.52	2832	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 03/10/2025

Lab File ID: BN036559.D Time Analyzed: 12:54

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	6005	17.111	4110	21.295	3539	23.554
	UPPER LIMIT	12010	17.611	8220	21.795	7078	24.054
	LOWER LIMIT	3002.5	16.611	2055	20.795	1769.5	23.054
	EPA SAMPLE NO.						
01	PB167057BL	4335	17.12	2994	21.30	2724	23.57
02	RE122D1-20250305	5031	17.11	3465	21.30	2981	23.56
03	RE126D1-20250306	5134	17.11	3745	21.30	3091	23.56
04	RE126D2-20250306	5634	17.11	3902	21.30	3043	23.56
05	DUP01-20250306	5566	17.11	3909	21.30	3415	23.56
06	RE108D1-20250306	5255	17.11	3738	21.30	3210	23.55
07	RE105D1-20250306	5726	17.11	3951	21.30	3259	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/11/2025

Lab File ID: BN036574.D Time Analyzed: 10:08

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	2295	7.724	5467	10.51	3343	14.37
	UPPER LIMIT	4590	8.224	10934	11.009	6686	14.866
	LOWER LIMIT	1147.5	7.224	2733.5	10.009	1671.5	13.866
	EPA SAMPLE NO.						
01	RE122D2-20250305	3302	7.72	7375	10.51	4300	14.37
02	RE122D3-20250305	2163	7.72	4662	10.51	2586	14.37
03	RE103D1-20250306	2056	7.72	4839	10.51	2887	14.37
04	RE103D1-20250306MS	1966	7.72	4554	10.51	2666	14.36
05	RE103D1-20250306MSD	1973	7.72	4547	10.51	2602	14.37
06	PB167057BS	2199	7.72	5061	10.51	2475	14.37
07	RE103D1-20250306DL	2259	7.72	5271	10.52	3220	14.37
08	RE103D2-20250306	2161	7.72	4915	10.51	2930	14.37
09	RE108D2-20250306	1904	7.72	4283	10.51	2637	14.37
10	RE105D2-20250306	1950	7.72	4552	10.51	2777	14.37
11	RE125D1-20250307	2166	7.72	4992	10.51	2872	14.36
12	RE125D2-20250307	2081	7.72	4659	10.51	2830	14.37
13	FB01	1897	7.72	4317	10.52	2633	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/11/2025

Lab File ID: BN036574.D Time Analyzed: 10:08

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	6922	17.111	4977		21.295	4232		23.554
	UPPER LIMIT	13844	17.611	9954		21.795	8464		24.054
	LOWER LIMIT	3461	16.611	2488.5		20.795	2116		23.054
	EPA SAMPLE NO.								
01	RE122D2-20250305	8599	17.11	6414		21.30	5766		23.55
02	RE122D3-20250305	4760	17.11	3526		21.30	3334		23.55
03	RE103D1-20250306	5689	17.11	3805		21.30	2891		23.55
04	RE103D1-20250306MS	5287	17.11	3809		21.30	3096		23.55
05	RE103D1-20250306MSD	5250	17.11	3781		21.30	3038		23.55
06	PB167057BS	4176	17.11	2420	*	21.30	2074	*	23.56
07	RE103D1-20250306DL	6427	17.11	4562		21.30	3613		23.55
08	RE103D2-20250306	5748	17.11	3765		21.30	3253		23.56
09	RE108D2-20250306	5582	17.11	3932		21.30	3177		23.55
10	RE105D2-20250306	5693	17.11	3977		21.30	3124		23.55
11	RE125D1-20250307	5521	17.11	3922		21.30	3017		23.55
12	RE125D2-20250307	5539	17.11	3781		21.30	3024		23.55
13	FB01	5337	17.11	4002		21.30	3149		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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/12/2025

Lab File ID: BN036591.D Time Analyzed: 09:14

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	2221	7.717	5304	10.51	3177	14.36
	UPPER LIMIT	4442	8.217	10608	11.009	6354	14.855
	LOWER LIMIT	1110.5	7.217	2652	10.009	1588.5	13.855
	EPA SAMPLE NO.						
01	RE103D3-20250306	1963	7.72	4459	10.51	2879	14.36
02	RE105D2-20250306DL	1963	7.72	4593	10.51	2774	14.37
03	RE125D1-20250307DL	1986	7.72	4780	10.51	2899	14.36
04	RE104D2-20250307	1944	7.72	4249	10.51	2599	14.37
05	RE104D3-20250307	2341	7.72	5174	10.51	3132	14.37
06	RE125D2-20250307DL	2304	7.72	5150	10.52	3131	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/12/2025

Lab File ID: BN036591.D Time Analyzed: 09:14

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	6400	17.111	4453	21.295	3635	23.551
	UPPER LIMIT	12800	17.611	8906	21.795	7270	24.051
	LOWER LIMIT	3200	16.611	2226.5	20.795	1817.5	23.051
	EPA SAMPLE NO.						
01	RE103D3-20250306	5114	17.11	3421	21.30	2969	23.55
02	RE105D2-20250306DL	5527	17.11	3876	21.30	3091	23.55
03	RE125D1-20250307DL	5979	17.11	4274	21.30	3192	23.55
04	RE104D2-20250307	5272	17.11	3676	21.30	3141	23.55
05	RE104D3-20250307	6559	17.11	4896	21.30	4323	23.55
06	RE125D2-20250307DL	5911	17.11	3996	21.30	3315	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.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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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:	PB167057BL	SDG No.:	Q1531
Lab Sample ID:	PB167057BL	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
BN036565.D	1	03/10/25 11:35	03/10/25 17:14	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.23		53 - 106		58%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2260	7.724				
1146-65-2	Naphthalene-d8	4580	10.53				
15067-26-2	Acenaphthene-d10	2490	14.377				
1517-22-2	Phenanthrene-d10	4340	17.124				
1719-03-5	Chrysene-d12	2990	21.304				
1520-96-3	Perylene-d12	2720	23.566				

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
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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:	PB167057BS	SDG No.:	Q1531
Lab Sample ID:	PB167057BS	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
BN036588.D	1	03/10/25 11:35	03/11/25 19:09	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		132%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2200	7.724				
1146-65-2	Naphthalene-d8	5060	10.509				
15067-26-2	Acenaphthene-d10	2480	14.366				
1517-22-2	Phenanthrene-d10	4180	17.111				
1719-03-5	Chrysene-d12	2420	21.304				
1520-96-3	Perylene-d12	2070	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306MS	SDG No.:	Q1531
Lab Sample ID:	Q1531-08MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036579.D	1	03/10/25 11:35	03/11/25 13:45	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.20	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	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	1970	7.724				
1146-65-2	Naphthalene-d8	4550	10.509				
15067-26-2	Acenaphthene-d10	2670	14.355				
1517-22-2	Phenanthrene-d10	5290	17.111				
1719-03-5	Chrysene-d12	3810	21.295				
1520-96-3	Perylene-d12	3100	23.554				

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:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306MSD	SDG No.:	Q1531
Lab Sample ID:	Q1531-09MSD	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
BN036580.D	1	03/10/25 11:35	03/11/25 14:21	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.90	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	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	1970	7.724				
1146-65-2	Naphthalene-d8	4550	10.509				
15067-26-2	Acenaphthene-d10	2600	14.366				
1517-22-2	Phenanthrene-d10	5250	17.111				
1719-03-5	Chrysene-d12	3780	21.295				
1520-96-3	Perylene-d12	3040	23.551				

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
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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

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/10/2025 21:26

Lab File ID: BN036572.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	0.585		-1.7	50.0
Fluoranthene-d10	1.025	1.071		4.5	50.0
2-Fluorophenol	0.932	0.968		3.9	50.0
Phenol-d6	1.152	1.112		-3.5	50.0
Nitrobenzene-d5	0.435	0.405		-6.9	50.0
2-Fluorobiphenyl	2.327	2.408		3.5	50.0
2,4,6-Tribromophenol	0.182	0.171		-6.0	50.0
Terphenyl-d14	0.958	0.947		-1.1	50.0
1,4-Dioxane	0.444	0.520		17.1	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/11/2025 10:08

Lab File ID: BN036574.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	0.563		-5.4	20.0
Fluoranthene-d10	1.025	1.038		1.3	20.0
2-Fluorophenol	0.932	0.903		-3.1	20.0
Phenol-d6	1.152	1.059		-8.1	20.0
Nitrobenzene-d5	0.435	0.381		-12.4	20.0
2-Fluorobiphenyl	2.327	2.112		-9.2	20.0
2,4,6-Tribromophenol	0.182	0.171		-6.0	20.0
Terphenyl-d14	0.958	0.926		-3.3	20.0
1,4-Dioxane	0.444	0.507		14.2	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/11/2025 19:46

Lab File ID: BN036589.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	0.575		-3.4	50.0
Fluoranthene-d10	1.025	1.029		0.4	50.0
2-Fluorophenol	0.932	0.807		-13.4	50.0
Phenol-d6	1.152	0.937		-18.7	50.0
Nitrobenzene-d5	0.435	0.390		-10.3	50.0
2-Fluorobiphenyl	2.327	2.515		8.1	50.0
2,4,6-Tribromophenol	0.182	0.177		-2.7	50.0
Terphenyl-d14	0.958	0.946		-1.3	50.0
1,4-Dioxane	0.444	0.457		2.9	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/12/2025 09:14

Lab File ID: BN036591.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	0.598		0.5	20.0
Fluoranthene-d10	1.025	1.078		5.2	20.0
2-Fluorophenol	0.932	0.936		0.4	20.0
Phenol-d6	1.152	1.110		-3.6	20.0
Nitrobenzene-d5	0.435	0.424		-2.5	20.0
2-Fluorobiphenyl	2.327	2.354		1.2	20.0
2,4,6-Tribromophenol	0.182	0.187		2.7	20.0
Terphenyl-d14	0.958	0.957		-0.1	20.0
1,4-Dioxane	0.444	0.524		18.0	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/12/2025 14:39

Lab File ID: BN036599.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	0.568		-4.5	50.0
Fluoranthene-d10	1.025	1.089		6.2	50.0
2-Fluorophenol	0.932	0.958		2.8	50.0
Phenol-d6	1.152	1.129		-2.0	50.0
Nitrobenzene-d5	0.435	0.442		1.6	50.0
2-Fluorobiphenyl	2.327	2.369		1.8	50.0
2,4,6-Tribromophenol	0.182	0.191		4.9	50.0
Terphenyl-d14	0.958	1.019		6.4	50.0
1,4-Dioxane	0.444	0.504		13.5	50.0

All other compounds must meet a minimum RRF of 0.010.